

Appendix D

Laboratory Reports, First Quarter 2024

For additional help with the information provided in the laboratory reports, please contact Alison Schaffer, Arcadis Report Lead, at 303.471.3575

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062239

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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ASSET Laboratories Work Order: N062239

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January 24, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062239

RE: PG&E Topock - PCM, 30121866

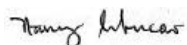
Attention: Dan Bush

Enclosed are the results for sample(s) received on January 08, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062239

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary due to matrix interference. Sample was analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Sample was reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 6020_Total:

Matrix Spike (MS) is outside recovery criteria for Manganese in QC sample N062239-001C-MS since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062239
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062239-001A	PTI-1D-012408	Groundwater	1/8/2024 7:30:00 AM	1/8/2024	1/24/2024
N062239-001B	PTI-1D-012408	Groundwater	1/8/2024 7:30:00 AM	1/8/2024	1/24/2024
N062239-001C	PTI-1D-012408	Groundwater	1/8/2024 7:30:00 AM	1/8/2024	1/24/2024



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ANALYTICAL RESULTS

Print Date: 24-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062239
Project: PG&E Topock - PCM, 30121866
Lab ID: N062239-001

Client Sample ID: PTI-1D-012408
Collection Date: 1/8/2024 7:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240110A	QC Batch: R180271				PrepDate:		Analyst: RAB
Hexavalent Chromium	3.2	0.19	1.0		µg/L	5	1/10/2024 08:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180271	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271
Client ID: PBW	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615085
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID LCS-R180271	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271
Client ID: LCSW	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615086
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.023	0.20	5.000	0	100 90 110

Sample ID N062243-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615094
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	46.150	1.0	25.00	21.57	98.3 90 110

Sample ID N062243-002AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615095
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	46.284	1.0	25.00	21.57	98.9 90 110 46.15 0.291 20

Sample ID N062243-003ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615097
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	22.008	1.0			22.03 0.102 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062243-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZZ	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615098							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.288	1.0	25.00	22.03	97.0	90	110				

Sample ID N062239-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZZ	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.814	1.0	5.000	3.168	92.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

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ANALYTICAL RESULTS

Print Date: 24-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062239
Project: PG&E Topock - PCM, 30121866
Lab ID: N062239-001

Client Sample ID: PTI-1D-012408
Collection Date: 1/8/2024 7:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920				PrepDate: 1/9/2024		Analyst: DJ
Iron	130	13	20		µg/L	1	1/10/2024 01:58 PM

TOTAL METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240112E	QC Batch: 105960				PrepDate: 1/10/2024		Analyst: DJ
Iron	190	13	20		µg/L	1	1/12/2024 06:14 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-105920	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: PBW	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612376
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	ND	20			
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Sample ID LCS-105920	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: LCSW	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612377
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	106.694	20	100.0	0	107 85 115
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Sample ID N062241-009CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: ZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612391
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	120.933	20	100.0	34.53	86.4 75 125
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Sample ID N062241-009CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: ZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612392
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	121.056	20	100.0	34.53	86.5 75 125 120.9 0.102 20
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Qualifiers:

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- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPBB

Sample ID MB-105960	SampType: MBLK	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180339						
Client ID: PBW	Batch ID: 105960	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5620159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 20

Sample ID LCS-105960	SampType: LCS	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180339						
Client ID: LCSW	Batch ID: 105960	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5620160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 112.630 20 100.0 0 113 85 115

Sample ID N062239-001C-MS	SampType: MS	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180339						
Client ID: ZZZZZ	Batch ID: 105960	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5620164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 291.168 20 100.0 187.3 104 75 125

Sample ID N062239-001C-MSD	SampType: MSD	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180339						
Client ID: ZZZZZ	Batch ID: 105960	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5620169						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 310.984 20 100.0 187.3 124 75 125 291.2 6.58 20

Qualifiers:

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- DO Surrogate Diluted Out
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- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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ANALYTICAL RESULTS

Print Date: 24-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062239
Project: PG&E Topock - PCM, 30121866
Lab ID: N062239-001

Client Sample ID: PTI-1D-012408
Collection Date: 1/8/2024 7:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240109F	QC Batch: 105924				PrepDate: 1/9/2024		Analyst: DJ
Manganese	880	0.26	5.0		µg/L	10	1/9/2024 10:03 PM

TOTAL METALS BY ICPMS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240110G	QC Batch: 105923				PrepDate: 1/9/2024		Analyst: DJ
Manganese	840	2.6	50		µg/L	100	1/10/2024 10:01 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-105924	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: PBW	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613215
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			

Sample ID LCS-105924	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: LCSW	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613216
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	100.372	0.50	100.0	0	100 85 115

Sample ID N062241-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: ZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613241
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	128.285	0.50	100.0	36.15	92.1 75 125

Sample ID N062241-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: ZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613242
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	128.466	0.50	100.0	36.15	92.3 75 125 128.3 0.141 20

Qualifiers:

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- E Value above quantitation range
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- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID MB-105923	SampType: MBLK	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180255						
Client ID: PBW	Batch ID: 105923	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID LCS-105923	SampType: LCS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180255						
Client ID: LCSW	Batch ID: 105923	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 99.331 0.50 100.0 0 99.3 85 115

Sample ID N062239-001C-MS	SampType: MS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180288						
Client ID: ZZZZZ	Batch ID: 105923	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5616410						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 897.989 50 100.0 844.5 53.5 75 125 S

Sample ID N062239-001C-MSD	SampType: MSD	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180288						
Client ID: ZZZZZ	Batch ID: 105923	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5616413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 939.781 50 100.0 844.5 95.3 75 125 898.0 4.55 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N062241-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ZZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613240						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	129.461	0.50	100.0	36.15	93.3	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID N062239-001C-PS	SampType: PS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ZZZZZZ	Batch ID: 105923	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/10/2024	SeqNo: 5616409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	10711.279	50	10000	844.5	98.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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SAMPLE RECEIVING ITEMS



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Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		Address:		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		1 Chilled		Y N	
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com		Address:		Geotracker		RWQCB		2 Headspace			
Phone: 916-786-3302		Email: daniel.moore@crittgen.com		Address:		Labspec		Cal Trans		3 Container Intact			
Fax:		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		Others		LEVEL III		4 Seal Present			
Submitted By: Kevin Ashley		Address:		Phone: 949-727-1400 ext 200		Specify:		RWQCB		5 IR number		3	
Title: O and M Operators		Phone: 916-786-3302		Fax:		Global ID:		Specify State:		6 Method of Cooling:		ICE	
Signature: <i>[Signature]</i> Date: 1/8/24		Sampled By: Kevin Ashley		Matrix		Ground		X Sediment		Sample Temp:		3.2°C	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be prosecuted.		Potable		X		Soil		Turn Around Time		Courier: ASSET	
Project Name: I&G&L Topsoil - PCM		Signature: <i>[Signature]</i> Date: 1/8/24		NPDES		Other Solid		Surface		No. of Container		Tracking No.:	
Project Number: 301211836				Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		250 mL poly		1 L poly		500mL poly		500mL poly	
				Nitrite, Nitrate, sulfate (EPA 300.0)		500mL poly		500mL poly		500mL poly		3x40 mL VOA	
				Dissolved metals (SW6020) FF: HNO3		500mL poly		500mL poly		500mL poly		500mL poly	
				Dissolved metals (SW6020) FF: HNO3		500mL poly		500mL poly		500mL poly		500mL poly	
				Dissolved metals (SW6020) FF: HNO3		500mL poly		500mL poly		500mL poly		500mL poly	
				Dissolved metals (SW6020) FF: HNO3		500mL poly		500mL poly		500mL poly		500mL poly	
				Total Organic Carbon (SM5310C); H2SO4		500mL poly		500mL poly		500mL poly		500mL poly	
				Total metals (SW6010) No filter; HNO3		500mL poly		500mL poly		500mL poly		500mL poly	
				Total Iron and manganese		500mL poly		500mL poly		500mL poly		500mL poly	
				Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		500mL poly		500mL poly		500mL poly		500mL poly	
				Nitrate, sulfate (EPA 300.0)		500mL poly		500mL poly		500mL poly		500mL poly	
				Nitrate (EPA-300.0)		500mL poly		500mL poly		500mL poly		500mL poly	
				Turn Around Time		No. of Container		Container Type		PRESERVATION		Remarks	
				E		3		P		BNS			
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others			
1		N062239-001		PTI-1D-012408		1/8/24		0730		X		X	
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
Revised by (Signature and Printed Name):		Date/Time:		Revised by (Signature and Printed Name):		Date/Time:		Turn Around Time (TAT)		Special Instruction:			
<i>[Signature]</i> Kevin Ashley		1/8/24 1525		<i>[Signature]</i> HTEL PUA		1/8/24 1525		A < 24 Hrs or Same Day TAT					
<i>[Signature]</i> HTEL PUA		1/8/24 1527		<i>[Signature]</i> HTEL PUA		1/8/24 1527		B = Next Workday					
<i>[Signature]</i> HTEL PUA		1/8/24 1527		<i>[Signature]</i> HTEL PUA		1/8/24 1527		C = 2 Workdays					
<i>[Signature]</i> HTEL PUA		1/8/24 1527		<i>[Signature]</i> HTEL PUA		1/8/24 1527		D = 3 Workdays					
<i>[Signature]</i> HTEL PUA		1/8/24 1527		<i>[Signature]</i> HTEL PUA		1/8/24 1527		E = Routine 5-7 Workdays					
Terms		5. Trip Blanks and Equipment Blanks are billable sample		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are net 30 days.		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of reports needed.		9. For subcontract analysis, TAT and Surcharges will vary.		White=Laboratory Copy	
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis		Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%		3. Custom EDD kits will be an additional 13% of the total project price.		Preservatives:		Container Type:			
H=HCL		N=HNO3		S=H2SO4		C=4°C		T=Tube		V=VOA		P=Pin	
Z=Zn(Ac)2		O=NaOH		T=Na2S2O3				J=Jar		B=Teclar		G=Glass	
Others/Specify:		B		(NH4)2SO4/NH4OH				M=Metal		M=Metal		C=Can	

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/8/2024 Workorder: N062239
 Rep sample Temp (Deg C): 3.2 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

For:

Checklist Completed By: AIP *E Fanegof* 1/9/2024

Reviewed By: for: *J. M. ...*
MBC 1/10/2024

ASSET Laboratories

WORK ORDER Summary

10-Jan-24

WorkOrder: N062239

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/8/2024 6:27 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062239-001A	PTI-1D-012408	1/8/2024 7:30:00 AM	1/23/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062239-001B			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062239-001C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062239-002A	FOLDER	1/23/2024	1/23/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/23/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/23/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062239

NAME	TEST METHOD
Ria Abes	EPA 218.6
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6010B_Total, EPA 6020_Dissolved, EPA 6020_Total



EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

R180271

QC Batch Number: R180171
 ASSET #: N062239

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 1/10/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer RB 01182024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062239-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.6335 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 3.1675$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 3.2$$

Reviewed by:

d/Recha 1/25/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240110A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/10/24 1:33 PM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/10/24 1:44 PM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/10/24 1:53 PM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/10/24 2:03 PM	Reported
13	MB-R180271	MBLK	1	Hexavalent Chromium	01/10/24 2:12 PM	Reported
14	LCS-R180271	LCS	1	Hexavalent Chromium	01/10/24 2:22 PM	Reported
15	N062239-001A	SAMP	1	Hexavalent Chromium	01/10/24 2:56 PM	Not Reported
16	N062239-001AMS	MS	1	Hexavalent Chromium	01/10/24 3:09 PM	Not Reported
17	N062243-001A	SAMP	1	Hexavalent Chromium	01/10/24 3:18 PM	Reported
18	N062243-002A	SAMP	1	Hexavalent Chromium	01/10/24 3:28 PM	Not Reported
19	N062243-003A	SAMP	1	Hexavalent Chromium	01/10/24 3:37 PM	Not Reported
20	N062243-004A	SAMP	1	Hexavalent Chromium	01/10/24 3:47 PM	Reported
21	N062244-003A	SAMP	1	Hexavalent Chromium	01/10/24 3:56 PM	Reported
22	N062244-005A	SAMP	1	Hexavalent Chromium	01/10/24 4:05 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/10/24 4:15 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/10/24 4:24 PM	Reported
25	N062243-002A	SAMP	5	Hexavalent Chromium	01/10/24 4:34 PM	Reported
26	N062243-002AMS	MS	5	Hexavalent Chromium	01/10/24 4:43 PM	Reported
27	N062243-002AMSD	MSD	5	Hexavalent Chromium	01/10/24 4:53 PM	Reported
28	N062243-003A	SAMP	5	Hexavalent Chromium	01/10/24 5:02 PM	Reported
29	N062243-003ADUP	DUP	5	Hexavalent Chromium	01/10/24 5:12 PM	Reported
30	N062243-003AMS	MS	5	Hexavalent Chromium	01/10/24 5:22 PM	Reported
31	N062245-001A	SAMP	1	Hexavalent Chromium	01/10/24 5:33 PM	Reported
32	N062245-002A	SAMP	1	Hexavalent Chromium	01/10/24 6:05 PM	Reported
33	N062245-003A	SAMP	1	Hexavalent Chromium	01/10/24 6:15 PM	Reported
34	N062245-004A	SAMP	1	Hexavalent Chromium	01/10/24 6:25 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/10/24 6:34 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/10/24 6:44 PM	Reported
37	N062245-008A	SAMP	20	Hexavalent Chromium	01/10/24 6:53 PM	Reported
38	N062245-011A	SAMP	10	Hexavalent Chromium	01/10/24 7:03 PM	Reported
39	N062245-012A	SAMP	20	Hexavalent Chromium	01/10/24 7:12 PM	Reported
40	N062245-005A	SAMP	1	Hexavalent Chromium	01/10/24 7:22 PM	Reported
41	N062245-006A	SAMP	1	Hexavalent Chromium	01/10/24 7:31 PM	Reported
42	N062245-007A	SAMP	1	Hexavalent Chromium	01/10/24 7:40 PM	Reported

INJECTION LOG: 240110A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062245-009A	SAMP	1	Hexavalent Chromium	01/10/24 7:50 PM	Reported
44	N062245-010A	SAMP	1	Hexavalent Chromium	01/10/24 7:59 PM	Reported
45	N062245-013A	SAMP	1	Hexavalent Chromium	01/10/24 8:09 PM	Reported
46	N062239-001A	SAMP	5	Hexavalent Chromium	01/10/24 8:18 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/10/24 8:28 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/10/24 8:37 PM	Reported
49	N062239-001AMS	MS	5	Hexavalent Chromium	01/10/24 8:47 PM	Reported
50	MB-R180272	MBLK	1	Hexavalent Chromium	01/10/24 8:56 PM	Reported
51	LCS-R180272	LCS	1	Hexavalent Chromium	01/10/24 9:06 PM	Reported
52	N062276-001A	SAMP	1	Hexavalent Chromium	01/10/24 9:15 PM	Reported
53	N062276-001AMS	MS	1	Hexavalent Chromium	01/10/24 9:25 PM	Reported
54	N062276-001AMSD	MSD	1	Hexavalent Chromium	01/10/24 9:34 PM	Reported
55	N062277-001A	SAMP	1	Hexavalent Chromium	01/10/24 9:43 PM	Reported
56	N062277-001AMS	MS	1	Hexavalent Chromium	01/10/24 9:53 PM	Reported
57	N062277-001ADUP	DUP	1	Hexavalent Chromium	01/10/24 10:02 PM	Reported
58	N062277-002A	SAMP	1	Hexavalent Chromium	01/10/24 10:12 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/10/24 10:21 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/10/24 10:31 PM	Reported
61	N062277-003A	SAMP	1	Hexavalent Chromium	01/10/24 10:40 PM	Reported
62	N062277-004A	SAMP	1	Hexavalent Chromium	01/10/24 10:50 PM	Reported
63	N062278-002A	SAMP	1	Hexavalent Chromium	01/10/24 10:59 PM	Reported
64	N062278-003A	SAMP	1	Hexavalent Chromium	01/10/24 11:09 PM	Reported
65	N062278-004A	SAMP	1	Hexavalent Chromium	01/10/24 11:18 PM	Reported
66	N062278-005A	SAMP	1	Hexavalent Chromium	01/10/24 11:34 PM	Reported
67	N062278-006A	SAMP	1	Hexavalent Chromium	01/10/24 11:45 PM	Reported
68	N062278-007A	SAMP	5	Hexavalent Chromium	01/10/24 11:55 PM	Reported
69	N062278-008A	SAMP	1	Hexavalent Chromium	01/11/24 12:04 AM	Reported
70	N062278-009A	SAMP	1	Hexavalent Chromium	01/11/24 12:14 AM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 12:23 AM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 12:33 AM	Reported
73	N062278-010A	SAMP	1	Hexavalent Chromium	01/11/24 12:42 AM	Reported
74	N062278-011A	SAMP	5	Hexavalent Chromium	01/11/24 12:52 AM	Reported
75	N062278-012A	SAMP	5	Hexavalent Chromium	01/11/24 1:01 AM	Reported
76	N062278-013A	SAMP	1	Hexavalent Chromium	01/11/24 1:10 AM	Reported
77	MB-R180273	MBLK	1	Hexavalent Chromium	01/11/24 1:20 AM	Reported
78	LCS-R180273	LCS	1	Hexavalent Chromium	01/11/24 1:29 AM	Reported
79	N062279-020A	SAMP	1	Hexavalent Chromium	01/11/24 1:39 AM	Reported
80	N062279-020AMS	MS	1	Hexavalent Chromium	01/11/24 1:48 AM	Reported
81	N062279-020AMSD	MSD	1	Hexavalent Chromium	01/11/24 1:58 AM	Reported
82	N062279-004A	SAMP	1	Hexavalent Chromium	01/11/24 2:07 AM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 2:17 AM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 2:26 AM	Reported

INJECTION LOG: 240110A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062279-004ADUP	DUP	1	Hexavalent Chromium	01/11/24 2:36 AM	Reported
86	N062279-004AMS	MS	1	Hexavalent Chromium	01/11/24 2:45 AM	Reported
87	N062279-001A	SAMP	1	Hexavalent Chromium	01/11/24 2:54 AM	Reported
88	N062279-002A	SAMP	1	Hexavalent Chromium	01/11/24 3:04 AM	Reported
89	N062279-003A	SAMP	1	Hexavalent Chromium	01/11/24 3:13 AM	Reported
90	N062279-005A	SAMP	1	Hexavalent Chromium	01/11/24 3:23 AM	Reported
91	N062279-006A	SAMP	1	Hexavalent Chromium	01/11/24 3:32 AM	Reported
92	N062279-008A	SAMP	1	Hexavalent Chromium	01/11/24 3:42 AM	Reported
93	N062279-009A	SAMP	1	Hexavalent Chromium	01/11/24 3:51 AM	Reported
94	N062279-010A	SAMP	1	Hexavalent Chromium	01/11/24 4:01 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/11/24 4:10 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/11/24 4:20 AM	Reported
97	N062279-011A	SAMP	1	Hexavalent Chromium	01/11/24 4:31 AM	Reported
98	N062279-012A	SAMP	1	Hexavalent Chromium	01/11/24 4:41 AM	Reported
99	N062279-013A	SAMP	1	Hexavalent Chromium	01/11/24 4:50 AM	Reported
100	N062279-014A	SAMP	1	Hexavalent Chromium	01/11/24 5:00 AM	Reported
101	N062279-015A	SAMP	1	Hexavalent Chromium	01/11/24 5:09 AM	Reported
102	N062279-016A	SAMP	1	Hexavalent Chromium	01/11/24 5:19 AM	Reported
103	N062279-017A	SAMP	1	Hexavalent Chromium	01/11/24 5:28 AM	Reported
104	N062279-018A	SAMP	1	Hexavalent Chromium	01/11/24 5:38 AM	Reported
105	N062279-019A	SAMP	1	Hexavalent Chromium	01/11/24 5:47 AM	Reported
106	CCV-9	CCV	1	Hexavalent Chromium	01/11/24 5:57 AM	Reported
107	CCB-9	CCB	1	Hexavalent Chromium	01/11/24 6:06 AM	Reported
108	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 6:15 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240110A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	11/Jan/24 10:11:08
No. of Injections:	111	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/10/2024 13:33	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/10/2024 13:44	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/10/2024 13:53	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/10/2024 14:03	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/10/2024 14:12	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/10/2024 14:22	Finished	LCS @5ppb, IWST-231228B
15	N062239-001A,SAMF	1	1000	Unknown		01/10/2024 14:56	Finished	SAMP,10 mL
16	N062239-001AMS,MS	2	1000	Unknown		01/10/2024 15:09	Finished	MS (1ppb), IWST-231228B,10r
17	N062243-001A,SAMF	3	1000	Unknown		01/10/2024 15:18	Finished	SAMP,10 mL
18	N062243-002A,SAMF	4	1000	Unknown		01/10/2024 15:28	Finished	SAMP,10 mL
19	N062243-003A,SAMF	5	1000	Unknown		01/10/2024 15:37	Finished	SAMP,10 mL
20	N062243-004A,SAMF	6	1000	Unknown		01/10/2024 15:47	Finished	SAMP,10 mL
21	N062244-003A,SAMF	7	1000	Unknown		01/10/2024 15:56	Finished	SAMP,10 mL
22	N062244-005A,SAMF	8	1000	Unknown		01/10/2024 16:05	Finished	SAMP,10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/10/2024 16:15	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/10/2024 16:24	Finished	CCB R231030A
25	N062243-002A,SAMF	11	1000	Unknown		01/10/2024 16:34	Finished	SAMP,2>10 mL
26	N062243-002AMS,MS	12	1000	Unknown		01/10/2024 16:43	Finished	MS (5ppb), IWST-231228B,2>
27	N062243-002AMSD,N	13	1000	Unknown		01/10/2024 16:53	Finished	MSD (5ppb), IWST-231228B,2
28	N062243-003A,SAMF	14	1000	Unknown		01/10/2024 17:02	Finished	SAMP,2>10 mL
29	N062243-003ADUP,D	15	1000	Unknown		01/10/2024 17:12	Finished	DUP,2>10 mL
30	N062243-003AMS,MS	1	1000	Unknown		01/10/2024 17:22	Finished	MS (5ppb), IWST-231228B,2>
31	N062245-001A,SAMF	2	1000	Unknown		01/10/2024 17:33	Finished	SAMP,10 mL
32	N062245-002A,SAMF	1	1000	Unknown		01/10/2024 18:05	Finished	SAMP,10 mL
33	N062245-003A,SAMF	2	1000	Unknown		01/10/2024 18:15	Finished	SAMP,10 mL
34	N062245-004A,SAMF	3	1000	Unknown		01/10/2024 18:25	Finished	SAMP,10 mL
35	CCV-3,CCV,1,	4	1000	Unknown		01/10/2024 18:34	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	5	1000	Unknown		01/10/2024 18:44	Finished	CCB R231030A
37	N062245-008A,SAMF	6	1000	Unknown		01/10/2024 18:53	Finished	SAMP,0.5>10 mL
38	N062245-011A,SAMF	7	1000	Unknown		01/10/2024 19:03	Finished	SAMP,1>10 mL
39	N062245-012A,SAMF	8	1000	Unknown		01/10/2024 19:12	Finished	SAMP,0.5>10 mL
40	N062245-005A,SAMF	9	1000	Unknown		01/10/2024 19:22	Finished	MS (1ppb), IWST-231228B,10r
41	N062245-006A,SAMF	10	1000	Unknown		01/10/2024 19:31	Finished	SAMP,10 mL
42	N062245-007A,SAMF	11	1000	Unknown		01/10/2024 19:40	Finished	MS (1ppb), IWST-231228B,10r
43	N062245-009A,SAMF	12	1000	Unknown		01/10/2024 19:50	Finished	SAMP,10 mL
44	N062245-010A,SAMF	13	1000	Unknown		01/10/2024 19:59	Finished	MS (1ppb), IWST-231228B,10r
45	N062245-013A,SAMF	14	1000	Unknown		01/10/2024 20:09	Finished	SAMP,10 mL
46	N062239-001A,SAMF	15	1000	Unknown		01/10/2024 20:18	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	16	1000	Unknown		01/10/2024 20:28	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	17	1000	Unknown		01/10/2024 20:37	Finished	CCB R231030A
49	N062239-001AMS,MS	18	1000	Unknown		01/10/2024 20:47	Finished	MS (1ppb), IWST-231228B,2>
50	MB-2,MBLK,1,	19	1000	Unknown		01/10/2024 20:56	Finished	MB R231227C
51	LCS-2,LCS,1,	20	1000	Unknown		01/10/2024 21:06	Finished	LCS @5ppb, IWST-231228B
52	N062276-001A,SAMF	21	1000	Unknown		01/10/2024 21:15	Finished	SAMP,10 mL
53	N062276-001AMS,MS	22	1000	Unknown		01/10/2024 21:25	Finished	MS (1ppb), IWST-231228B,10r
54	N062276-001AMSD,N	23	1000	Unknown		01/10/2024 21:34	Finished	MSD (1ppb), IWST-231228B,1
55	N062277-001A,SAMF	24	1000	Unknown		01/10/2024 21:43	Finished	SAMP,10 mL
56	N062277-001AMS,MS	25	1000	Unknown		01/10/2024 21:53	Finished	MS (1ppb), IWST-231228B,10r
57	N062277-001ADUP,D	26	1000	Unknown		01/10/2024 22:02	Finished	DUP,10 mL
58	N062277-002A,SAMF	27	1000	Unknown		01/10/2024 22:12	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	28	1000	Unknown		01/10/2024 22:21	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	29	1000	Unknown		01/10/2024 22:31	Finished	CCB R231227C

61	N062277-003A,SAMF	30	1000	Unknown	01/10/2024 22:40	Finished	SAMP,10 mL
62	N062277-004A,SAMF	31	1000	Unknown	01/10/2024 22:50	Finished	SAMP,10 mL
63	N062278-002A,SAMF	32	1000	Unknown	01/10/2024 22:59	Finished	SAMP,10 mL
64	N062278-003A,SAMF	33	1000	Unknown	01/10/2024 23:09	Finished	SAMP,10 mL
65	N062278-004A,SAMF	34	1000	Unknown	01/10/2024 23:18	Finished	SAMP,10 mL
66	N062278-005A,SAMF	1	1000	Unknown	01/10/2024 23:34	Finished	SAMP,10 mL
67	N062278-006A,SAMF	2	1000	Unknown	01/10/2024 23:45	Finished	SAMP,10 mL
68	N062278-007A,SAMF	3	1000	Unknown	01/10/2024 23:55	Finished	SAMP,2>10 mL
69	N062278-008A,SAMF	4	1000	Unknown	01/11/2024 00:04	Finished	SAMP,10 mL
70	N062278-009A,SAMF	5	1000	Unknown	01/11/2024 00:14	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	6	1000	Unknown	01/11/2024 00:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	7	1000	Unknown	01/11/2024 00:33	Finished	CCB R231227C
73	N062278-010A,SAMF	8	1000	Unknown	01/11/2024 00:42	Finished	SAMP,10 mL
74	N062278-011A,SAMF	9	1000	Unknown	01/11/2024 00:52	Finished	SAMP,2>10 mL
75	N062278-012A,SAMF	10	1000	Unknown	01/11/2024 01:01	Finished	SAMP,2>10 mL
76	N062278-013A,SAMF	11	1000	Unknown	01/11/2024 01:10	Finished	SAMP,10 mL
77	MB-3,MBLK,1,	12	1000	Unknown	01/11/2024 01:20	Finished	MB R231227C
78	LCS-3,LCS,1,	13	1000	Unknown	01/11/2024 01:29	Finished	LCS @5ppb, IWST-231228B
79	N062279-020A,SAMF	14	1000	Unknown	01/11/2024 01:39	Finished	SAMP,10 mL
80	N062279-020AMS,MS	15	1000	Unknown	01/11/2024 01:48	Finished	MS (1ppb), IWST-231228B,10r
81	N062279-020AMSD,MS	16	1000	Unknown	01/11/2024 01:58	Finished	MSD (1ppb), IWST-231228B,10r
82	N062279-004A,SAMF	17	1000	Unknown	01/11/2024 02:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	18	1000	Unknown	01/11/2024 02:17	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	19	1000	Unknown	01/11/2024 02:26	Finished	CCB R231227C
85	N062279-004ADUP,D	20	1000	Unknown	01/11/2024 02:36	Finished	DUP,10 mL
86	N062279-004AMS,MS	21	1000	Unknown	01/11/2024 02:45	Finished	MS (1ppb), IWST-231228B,10r
87	N062279-001A,SAMF	22	1000	Unknown	01/11/2024 02:54	Finished	SAMP,10 mL
88	N062279-002A,SAMF	23	1000	Unknown	01/11/2024 03:04	Finished	SAMP,10 mL
89	N062279-003A,SAMF	24	1000	Unknown	01/11/2024 03:13	Finished	SAMP,10 mL
90	N062279-005A,SAMF	25	1000	Unknown	01/11/2024 03:23	Finished	SAMP,10 mL
91	N062279-006A,SAMF	26	1000	Unknown	01/11/2024 03:32	Finished	SAMP,10 mL
92	N062279-008A,SAMF	27	1000	Unknown	01/11/2024 03:42	Finished	SAMP,10 mL
93	N062279-009A,SAMF	28	1000	Unknown	01/11/2024 03:51	Finished	SAMP,10 mL
94	N062279-010A,SAMF	29	1000	Unknown	01/11/2024 04:01	Finished	SAMP,10 mL
95	CCV-8,CCV1,1,	30	1000	Unknown	01/11/2024 04:10	Finished	CCV @10ppb, IWST-231228A
96	CCB-8,CCB,1,	31	1000	Unknown	01/11/2024 04:20	Finished	CCB R231227C
97	N062279-011A,SAMF	32	1000	Unknown	01/11/2024 04:31	Finished	SAMP,10 mL
98	N062279-012A,SAMF	33	1000	Unknown	01/11/2024 04:41	Finished	SAMP,10 mL
99	N062279-013A,SAMF	34	1000	Unknown	01/11/2024 04:50	Finished	SAMP,10 mL
100	N062279-014A,SAMF	35	1000	Unknown	01/11/2024 05:00	Finished	SAMP,10 mL
101	N062279-015A,SAMF	36	1000	Unknown	01/11/2024 05:09	Finished	SAMP,10 mL
102	N062279-016A,SAMF	37	1000	Unknown	01/11/2024 05:19	Finished	SAMP,10 mL
103	N062279-017A,SAMF	38	1000	Unknown	01/11/2024 05:28	Finished	SAMP,10 mL
104	N062279-018A,SAMF	39	1000	Unknown	01/11/2024 05:38	Finished	SAMP,10 mL
105	N062279-019A,SAMF	40	1000	Unknown	01/11/2024 05:47	Finished	SAMP,10 mL
106	CCV-9,CCV,1,	41	1000	Unknown	01/11/2024 05:57	Finished	CCV @5ppb, IWST-231228A
107	CCB-9,CCB,1,	42	1000	Unknown	01/11/2024 06:06	Finished	CCB R231227C
108	BLANK	43	1000	Unknown	01/11/2024 06:15	Finished	BLANK
109	SHUTDOWN	44	1000	Unknown	01/11/2024 06:25	Finished	
110	Eluent: R240108A	45	1000	Unknown	n.a.	Finished	
111	PCR: R240108B	46	1000	Unknown	n.a.	Finished	

SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/9/24
 Time Prepared: 10:04
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775 605 NA 0A
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A N231228B
 NH4OH + NH4SO4 buffer: N231227C

	Sample ID	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	NSG2278-1A	9.32	-	- 250ml	- 250ml		
2)	2A	9.34	-				
3)	3A	9.41	-				
4)	NSG2279-1A	9.36	-				
5)	NSG2241-1A	9.05	9.39			+ 4	
6)	2A	8.68	9.42			+ 6	
7)	3A	8.70	9.44			+ 6	
8)	4A	9.36	-				
9)	5A	9.68	-				
10)	6A	8.81	9.40			+ 5	
11)	7A	9.71	-				
12)	8A	9.35	-				
13)	9A	9.70	-				
14)	10A	9.68	-				
15)	NSG2242-1A	9.40	-				
	2A	9.40	-				

Sample Preparation

Date Prepared: 11/9/24
 Time Prepared: 10:04
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775 605 NA 0A
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A N231228B
 NH4OH + NH4SO4 buffer: N231227C

	Sample ID	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	NSG2242-3A	9.46	-	- 250ml	- 250ml		
2)	4A	9.39	-				
3)	5A	9.35	-				
4)	6A	9.56	-				
5)	7A	9.48	-				
6)	NSG2243-1A	9.29	-				
7)	2A	9.40	-				
8)	3A	9.46	-				
9)	4A	9.72	-				
10)	NSG2244-3A	9.35	-				
11)	NSG2245-1A	9.29	-				
12)	2A	9.78	-				
13)	3A	9.42	-				
14)	4A	9.46	-				
15)	5A	8.90	9.47			+ 4	
	6A	8.94	9.46			+ 4	
	NSG2247-5A	9.68	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert 1100922
 ORELAP Cert 4046 (EPA TO-15) 11/03

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR CONSTRUCTION AND INFRASTRUCTURE

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ICV	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5615079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5615080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCV	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.010 0.20 5.000 0 100 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.193 0.20 0.2000 0 96.5 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 9.877 0.20 10.00 0 98.8 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCV	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615103							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.034	0.20	5.000	0	101	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ZZZZZ	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.022	0.20	10.00	0	100	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCV	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.982	0.20	5.000	0	99.6	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: ICB	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5615081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCB	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615084							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCB	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCB	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615104							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCB	Batch ID: R180271	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5615116							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180271						
Client ID: CCB	Batch ID: R180271	TestNo: EPA 218.6		Analysis Date: 1/10/2024	SeqNo: 5615119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL TECHNOLOGISTS

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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.015	

Average 4.007
Actual RT Window 3.927 - 4.087
Applied RT Window 3.807 - 4.207

MB-R180271	N.A.	N.A.
LCS-R180271	4.006	PASS
N062243-001A	3.973	PASS
N062243-002A	3.998	PASS
N062243-003A	3.998	PASS
N062243-004A	N.A.	N.A.
N062244-003A	3.998	PASS
N062244-005A	N.A.	N.A.
N062243-002A	4.006	PASS
N062243-002AMS	4.006	PASS
N062243-002AMSD	4.006	PASS
N062243-003A	4.006	PASS
N062243-003ADUP	3.998	PASS
N062243-003AMS	4.006	PASS
N062245-001A	N.A.	N.A.
N062245-002A	N.A.	N.A.
N062245-003A	N.A.	N.A.
N062245-004A	4.006	PASS
N062245-008A	4.006	PASS

Reviewed by:

M. Rocha 1/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.015	

Average 4.007
Actual RT Window 3.927 - 4.087
Applied RT Window 3.807 - 4.207

N062245-011A	4.006	PASS
N062245-012A	4.015	PASS
N062245-005A	N.A.	N.A.
N062245-006A	3.998	PASS
N062245-007A	3.998	PASS
N062245-009A	3.998	PASS
N062245-010A	3.998	PASS
N062245-013A	N.A.	N.A.
N062239-001A	3.973	PASS
N062239-001AMS	3.973	PASS
MB-R180272	N.A.	N.A.
LCS-R180272	4.006	PASS
N062276-001A	3.990	PASS
N062276-001AMS	3.998	PASS
N062276-001AMSD	3.990	PASS
N062277-001A	3.990	PASS
N062277-001AMS	3.990	PASS
N062277-001ADUP	3.998	PASS
N062277-002A	3.990	PASS

Reviewed by:

M/Rocha 1/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.015	

Average 4.007
Actual RT Window 3.927 - 4.087
Applied RT Window 3.807 - 4.207

N062277-003A	3.998	PASS
N062277-004A	N.A.	N.A.
N062278-002A	N.A.	N.A.
N062278-003A	N.A.	N.A.
N062278-004A	N.A.	N.A.
N062278-005A	N.A.	N.A.
N062278-006A	N.A.	N.A.
N062278-007A	4.006	PASS
N062278-008A	3.990	PASS
N062278-009A	N.A.	N.A.
N062278-010A	3.998	PASS
N062278-011A	4.006	PASS
N062278-012A	4.006	PASS
N062278-013A	N.A.	N.A.
MB-R180273	N.A.	N.A.
LCS-R180273	3.998	PASS
N062279-020A	3.940	PASS
N062279-020AMS	3.948	PASS
N062279-020AMSD	3.948	PASS

Reviewed by:

d/Rocha 1/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.015	

Average 4.007

Actual RT Window 3.927 - 4.087

Applied RT Window 3.807 - 4.207

N062279-004A	3.915	PASS
N062279-004ADUP	3.915	PASS
N062279-004AMS	3.915	PASS
N062279-001A	3.956	PASS
N062279-002A	3.915	PASS
N062279-003A	3.998	PASS
N062279-005A	N.A.	N.A.
N062279-006A	N.A.	N.A.
N062279-008A	N.A.	N.A.
N062279-009A	3.948	PASS
N062279-010A	3.973	PASS
N062279-011A	3.965	PASS
N062279-012A	3.956	PASS
N062279-013A	3.973	PASS
N062279-014A	3.956	PASS
N062279-015A	3.990	PASS
N062279-016A	3.998	PASS
N062279-017A	3.990	PASS
N062279-018A	3.965	PASS

Reviewed by:

d/Rocha 1/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.015	

Average 4.007
Actual RT Window 3.927 - 4.087
Applied RT Window 3.807 - 4.207

N062279-019A 3.965 PASS

Reviewed by:

dRecha 1/25/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

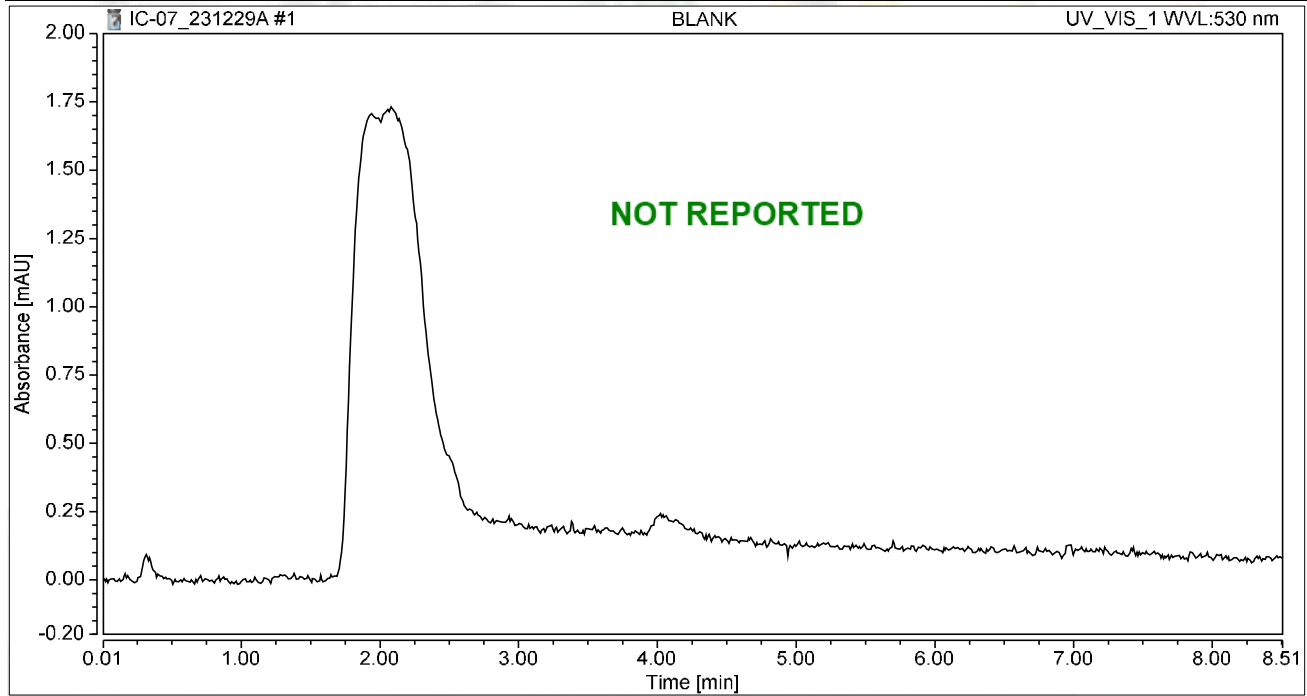
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

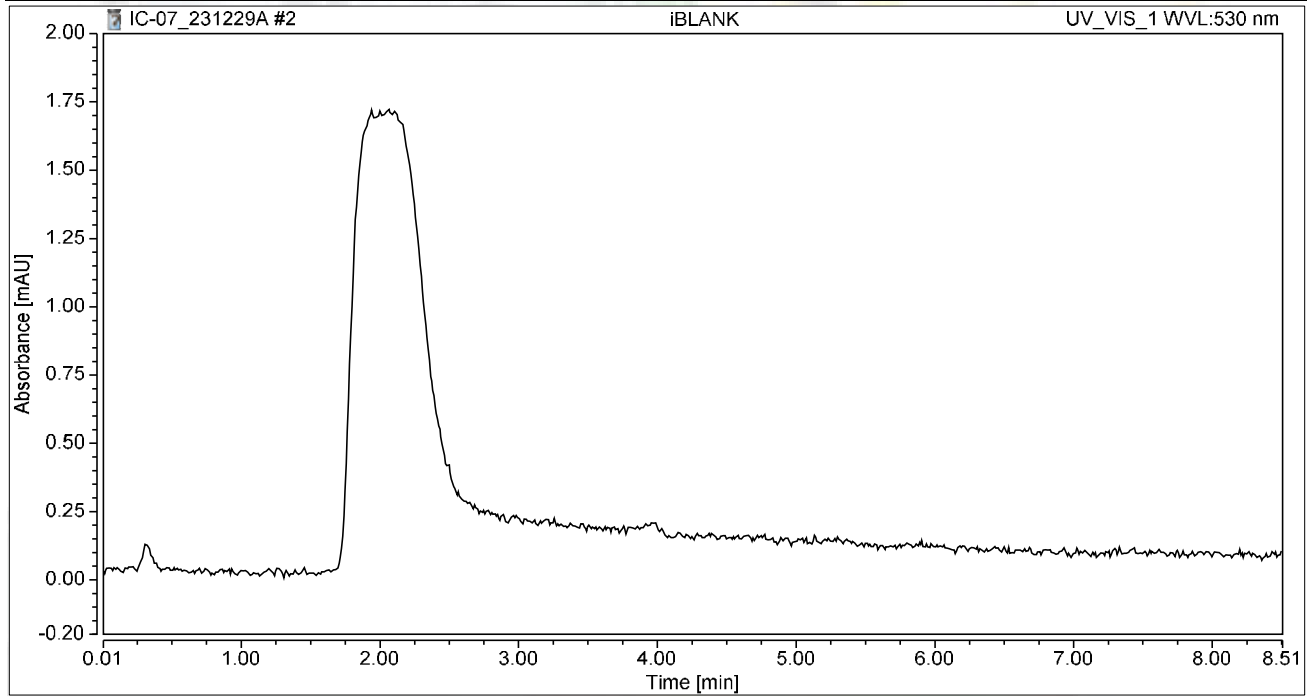
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Denny

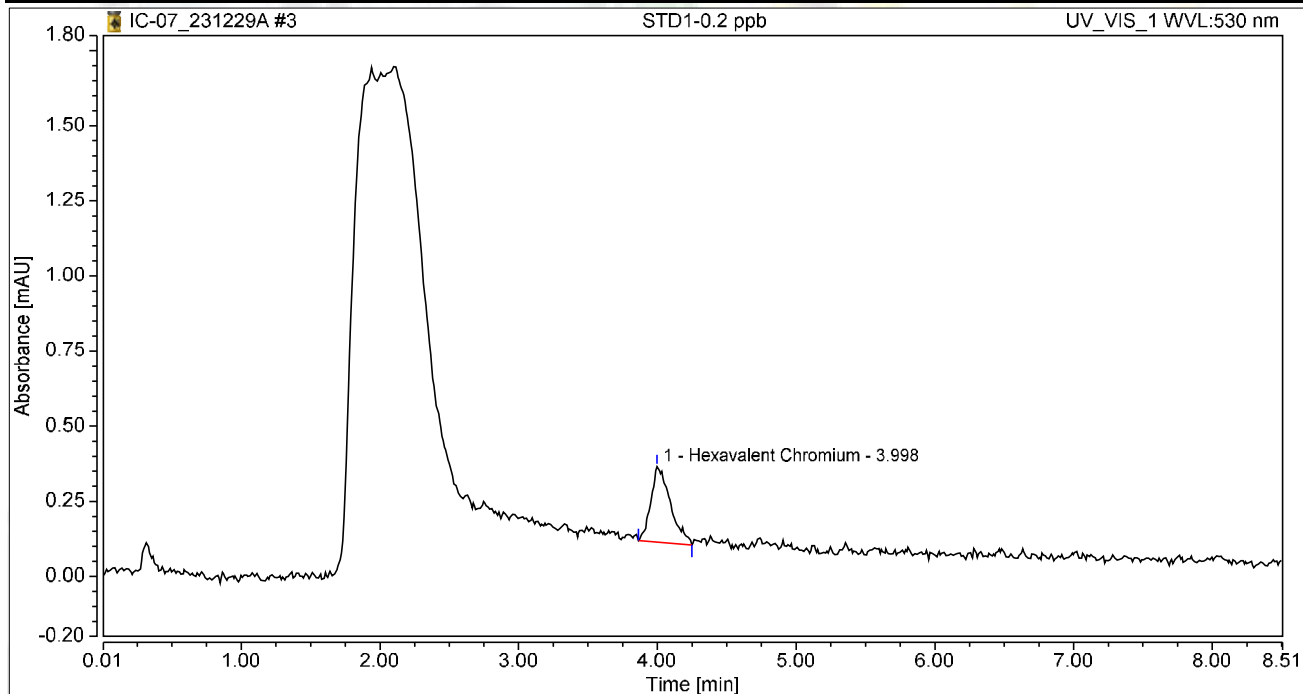
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

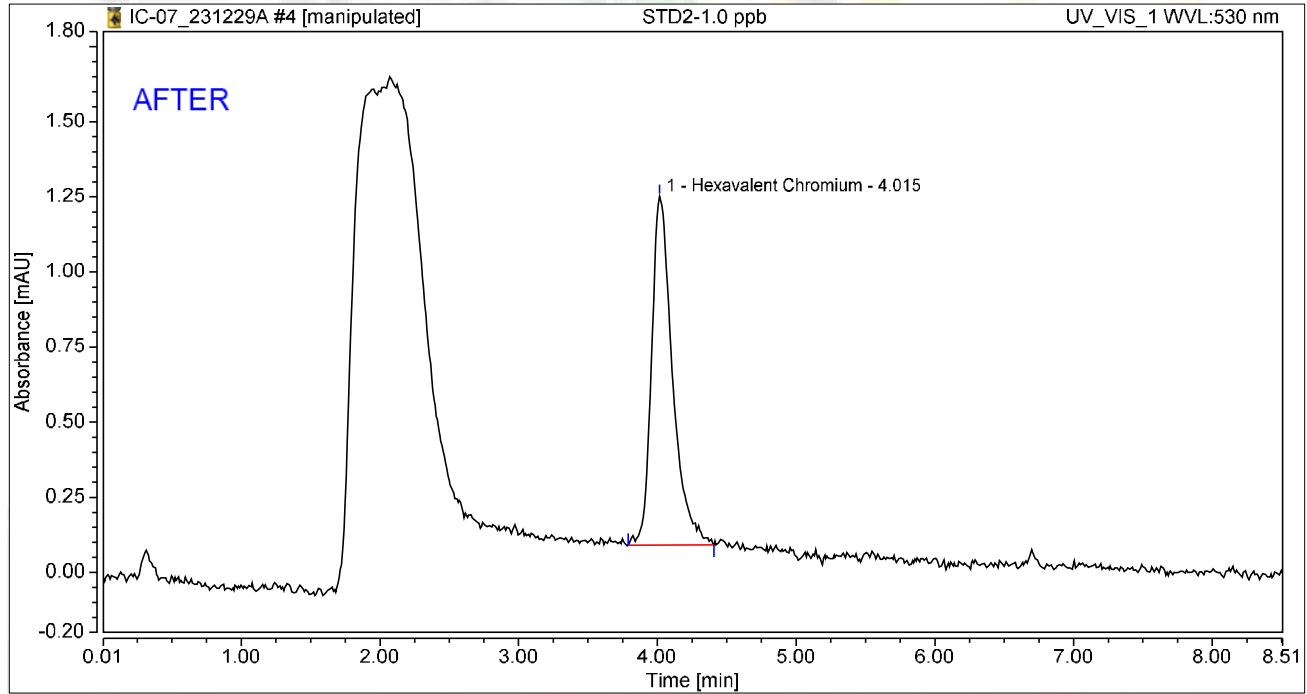
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

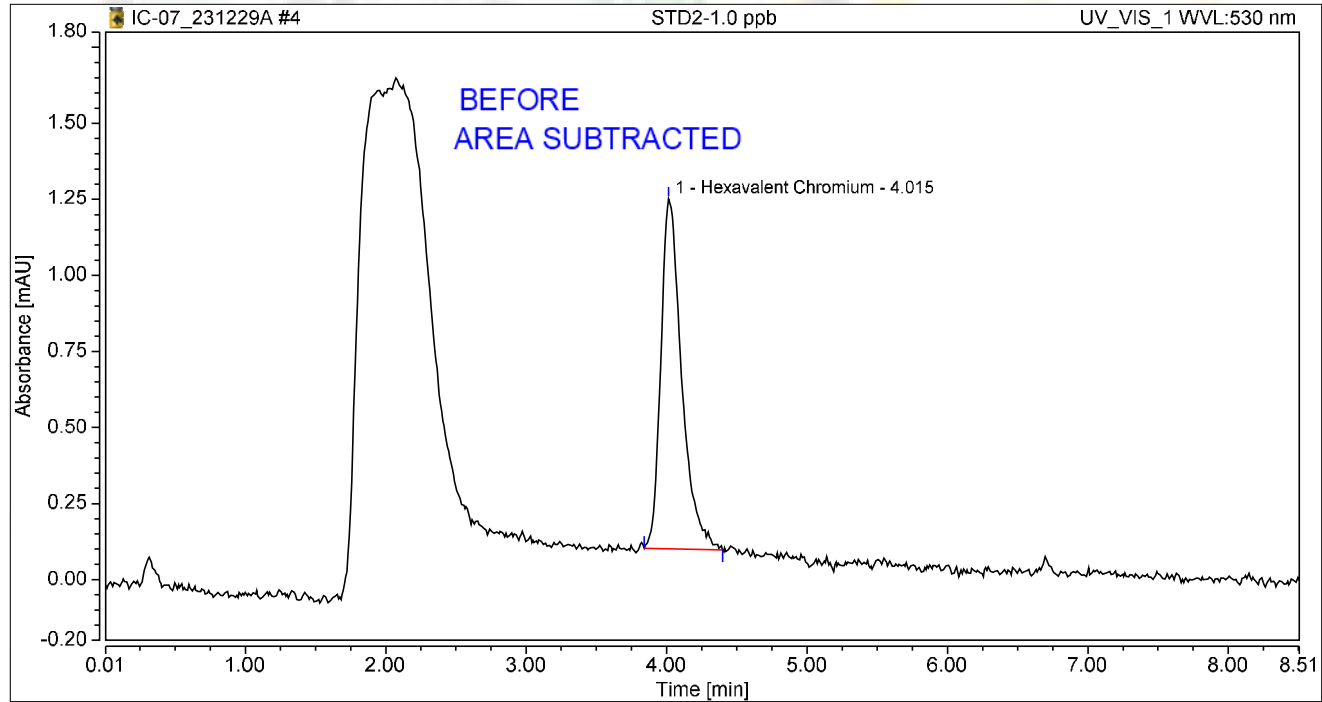
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD2-1.0 ppb	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	02	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight: 1.0000

Chromatogram



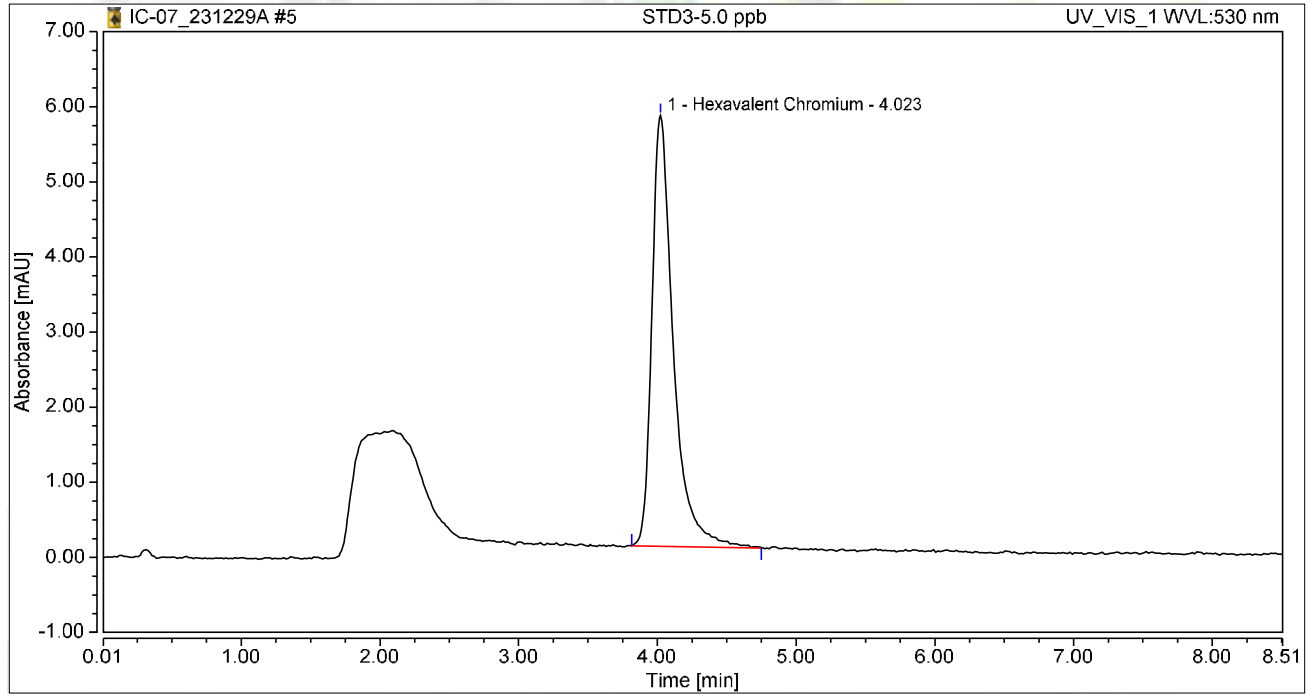
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

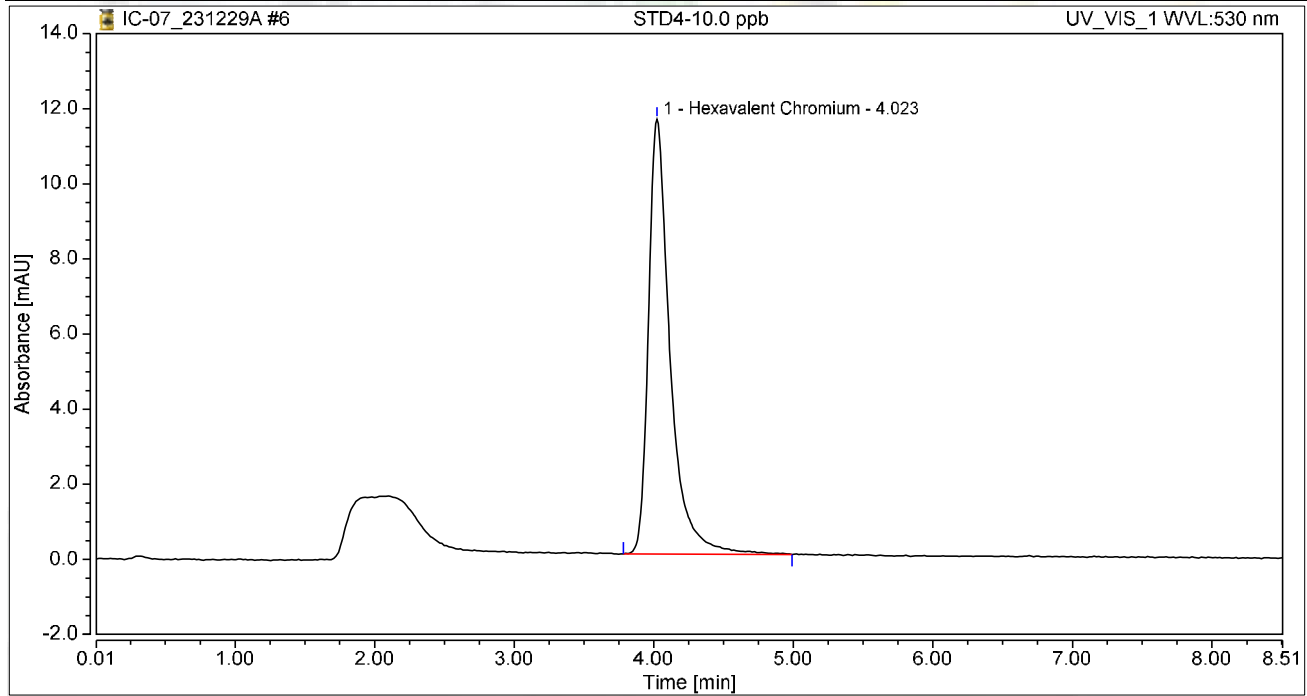
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

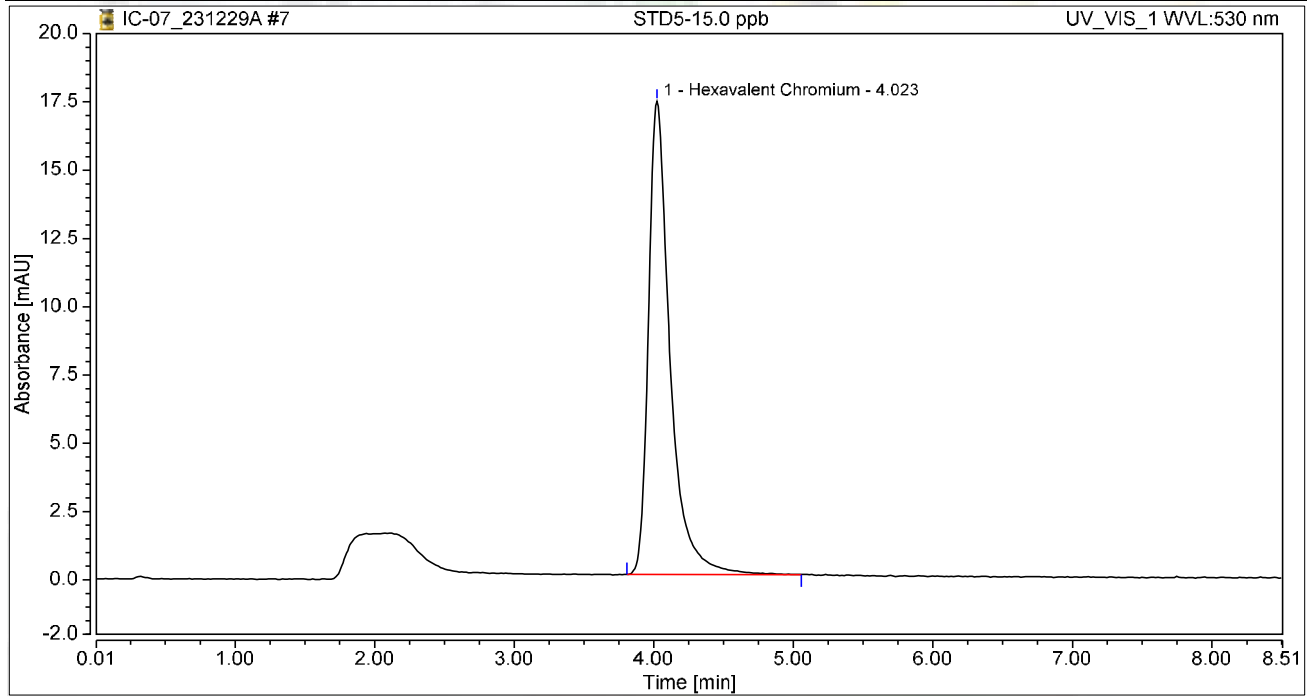
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

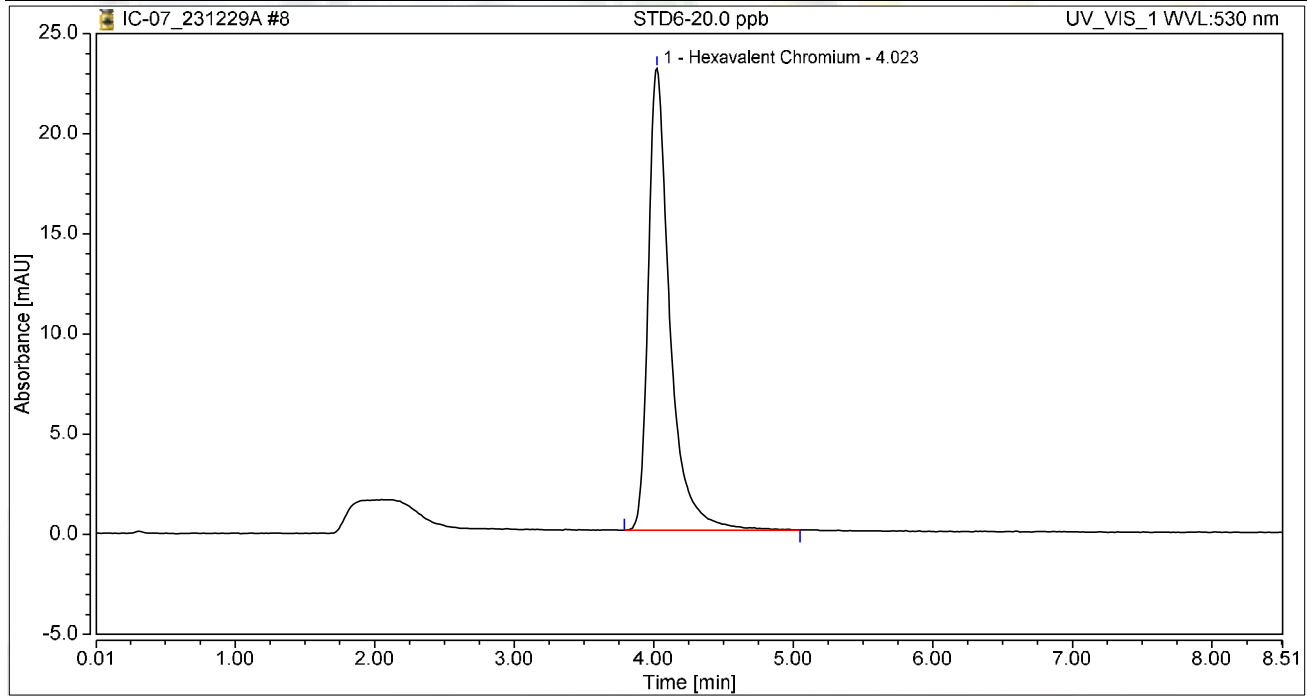
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

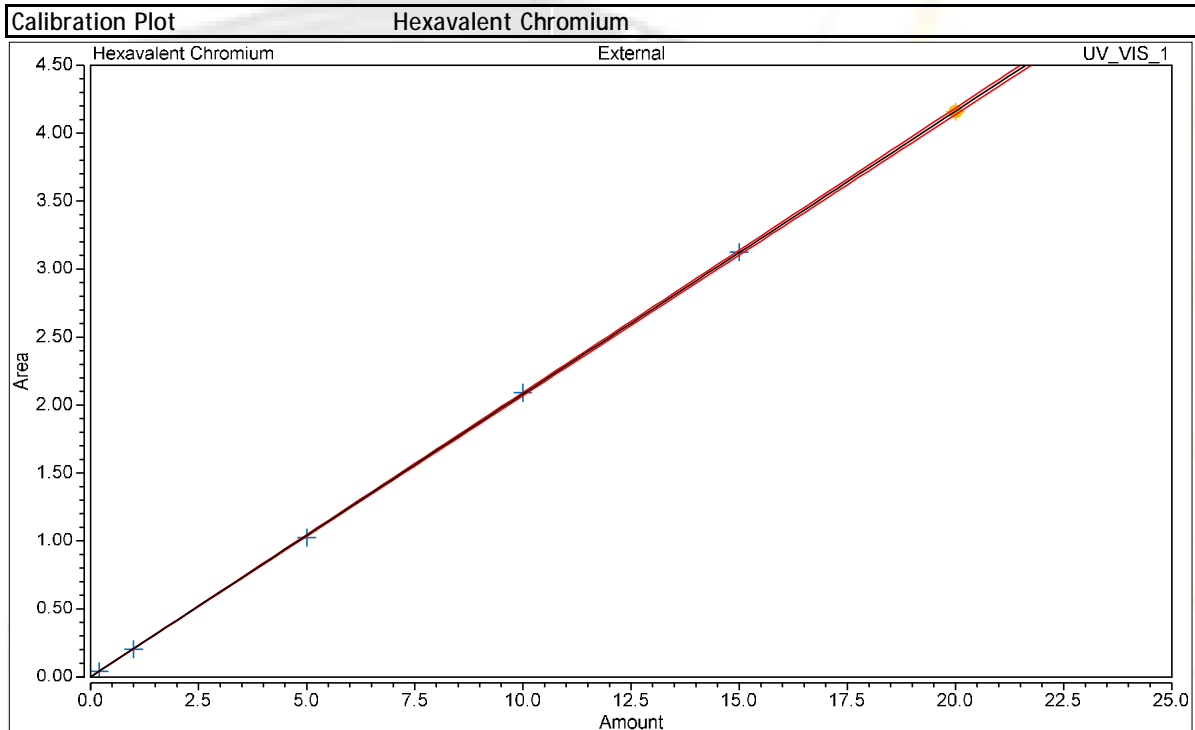
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



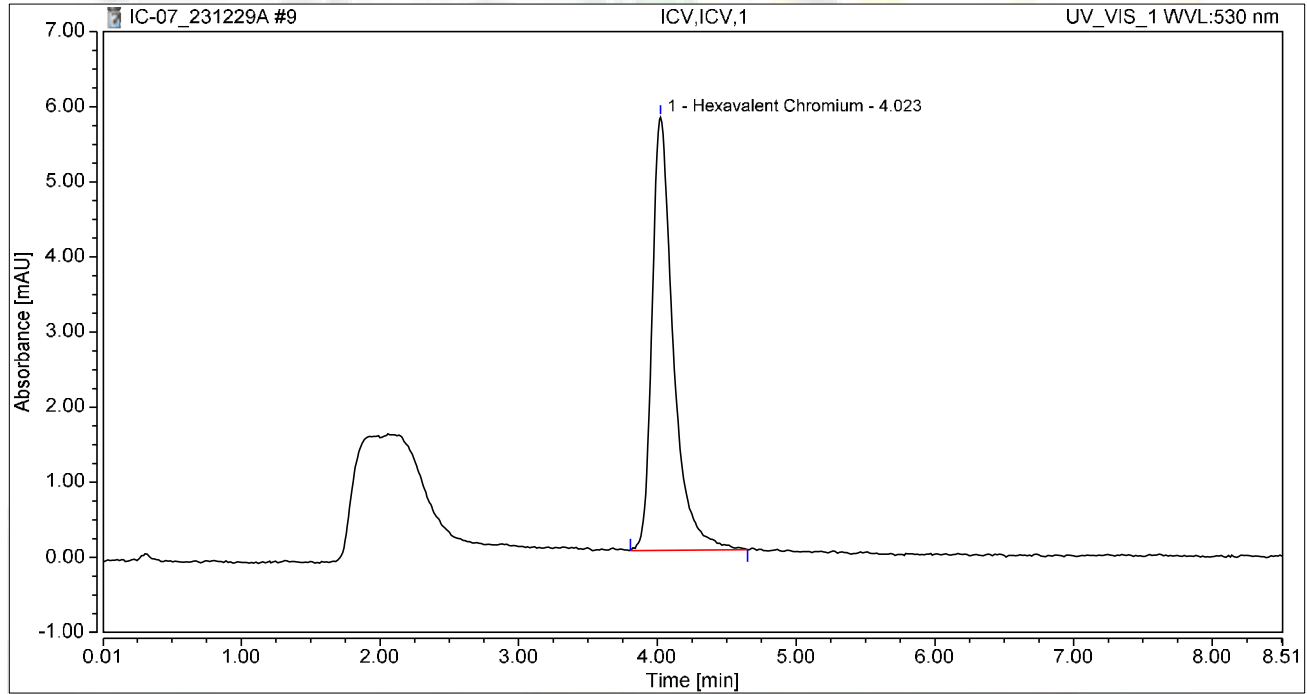
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



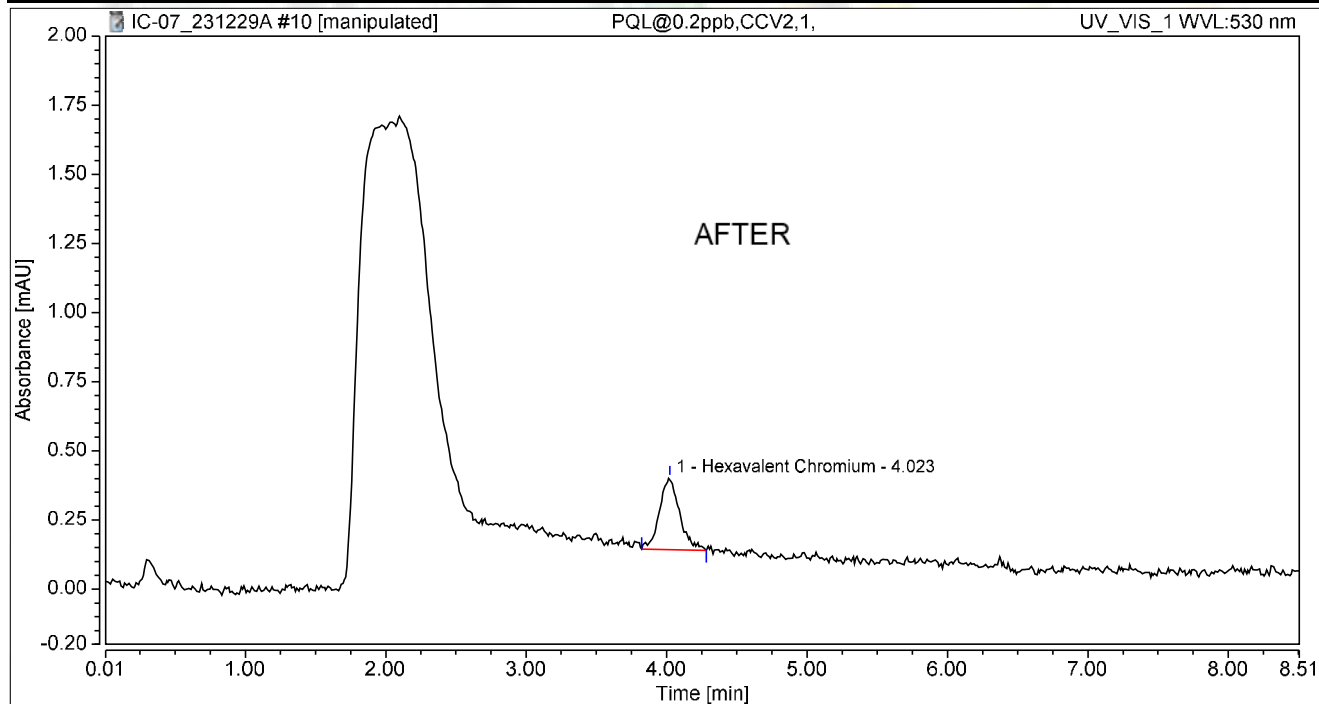
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

Reviewed by

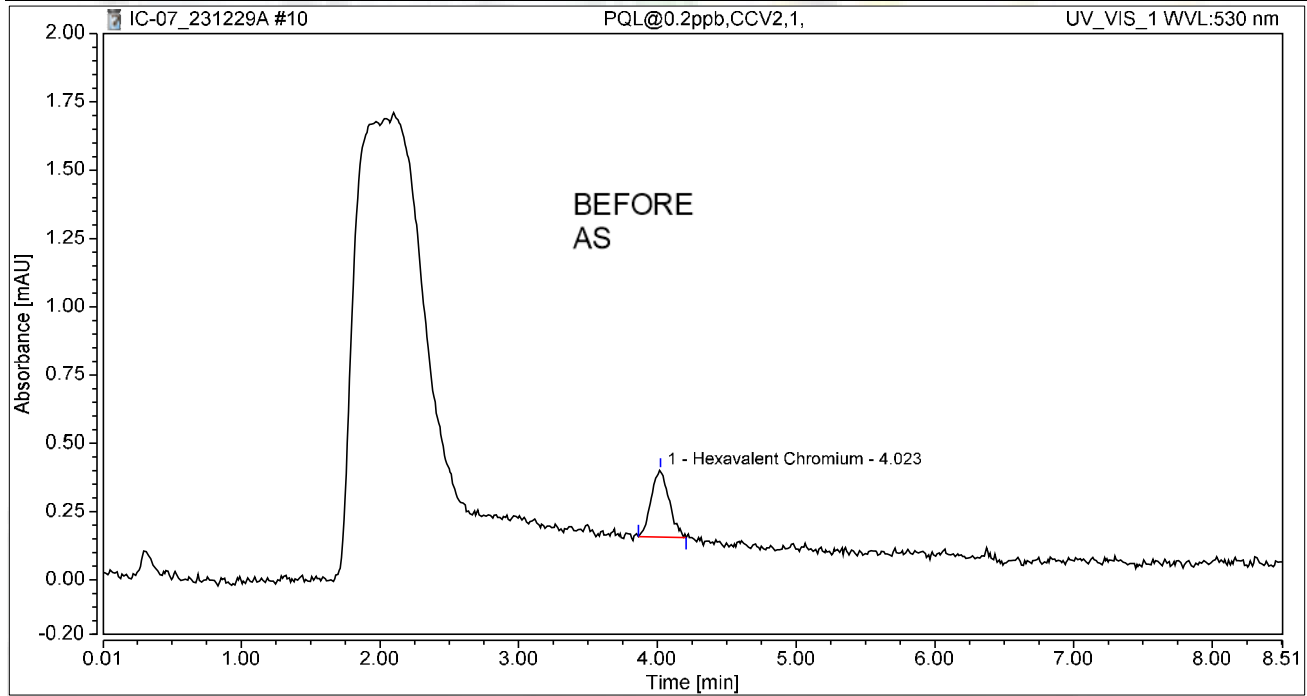
Nancy 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

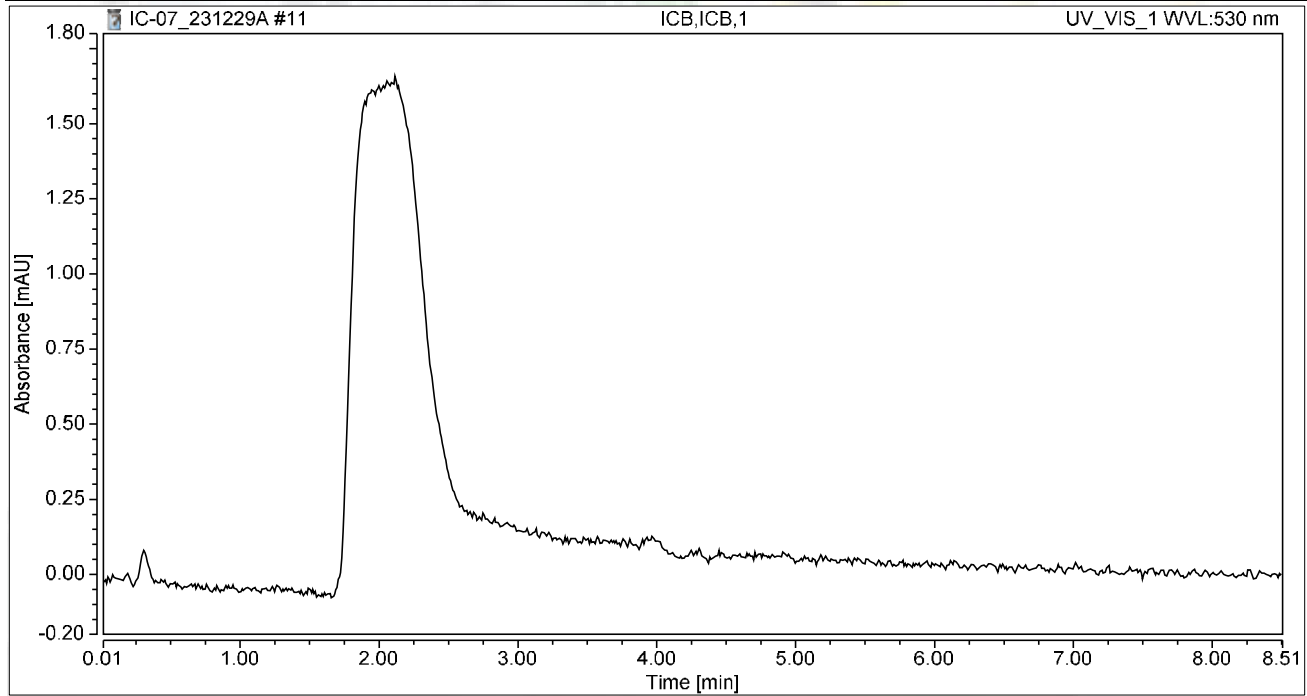
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240110A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/10/24 1:33 PM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/10/24 1:44 PM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/10/24 1:53 PM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/10/24 2:03 PM	Reported
13	MB-R180271	MBLK	1	Hexavalent Chromium	01/10/24 2:12 PM	Reported
14	LCS-R180271	LCS	1	Hexavalent Chromium	01/10/24 2:22 PM	Reported
15	N062239-001A	SAMP	1	Hexavalent Chromium	01/10/24 2:56 PM	Not Reported
16	N062239-001AMS	MS	1	Hexavalent Chromium	01/10/24 3:09 PM	Not Reported
17	N062243-001A	SAMP	1	Hexavalent Chromium	01/10/24 3:18 PM	Reported
18	N062243-002A	SAMP	1	Hexavalent Chromium	01/10/24 3:28 PM	Not Reported
19	N062243-003A	SAMP	1	Hexavalent Chromium	01/10/24 3:37 PM	Not Reported
20	N062243-004A	SAMP	1	Hexavalent Chromium	01/10/24 3:47 PM	Reported
21	N062244-003A	SAMP	1	Hexavalent Chromium	01/10/24 3:56 PM	Reported
22	N062244-005A	SAMP	1	Hexavalent Chromium	01/10/24 4:05 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/10/24 4:15 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/10/24 4:24 PM	Reported
25	N062243-002A	SAMP	5	Hexavalent Chromium	01/10/24 4:34 PM	Reported
26	N062243-002AMS	MS	5	Hexavalent Chromium	01/10/24 4:43 PM	Reported
27	N062243-002AMSD	MSD	5	Hexavalent Chromium	01/10/24 4:53 PM	Reported
28	N062243-003A	SAMP	5	Hexavalent Chromium	01/10/24 5:02 PM	Reported
29	N062243-003ADUP	DUP	5	Hexavalent Chromium	01/10/24 5:12 PM	Reported
30	N062243-003AMS	MS	5	Hexavalent Chromium	01/10/24 5:22 PM	Reported
31	N062245-001A	SAMP	1	Hexavalent Chromium	01/10/24 5:33 PM	Reported
32	N062245-002A	SAMP	1	Hexavalent Chromium	01/10/24 6:05 PM	Reported
33	N062245-003A	SAMP	1	Hexavalent Chromium	01/10/24 6:15 PM	Reported
34	N062245-004A	SAMP	1	Hexavalent Chromium	01/10/24 6:25 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/10/24 6:34 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/10/24 6:44 PM	Reported
37	N062245-008A	SAMP	20	Hexavalent Chromium	01/10/24 6:53 PM	Reported
38	N062245-011A	SAMP	10	Hexavalent Chromium	01/10/24 7:03 PM	Reported
39	N062245-012A	SAMP	20	Hexavalent Chromium	01/10/24 7:12 PM	Reported
40	N062245-005A	SAMP	1	Hexavalent Chromium	01/10/24 7:22 PM	Reported
41	N062245-006A	SAMP	1	Hexavalent Chromium	01/10/24 7:31 PM	Reported
42	N062245-007A	SAMP	1	Hexavalent Chromium	01/10/24 7:40 PM	Reported

Reviewed by:

JRB 1/18/2024

INJECTION LOG: 240110A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062245-009A	SAMP	1	Hexavalent Chromium	01/10/24 7:50 PM	Reported
44	N062245-010A	SAMP	1	Hexavalent Chromium	01/10/24 7:59 PM	Reported
45	N062245-013A	SAMP	1	Hexavalent Chromium	01/10/24 8:09 PM	Reported
46	N062239-001A	SAMP	5	Hexavalent Chromium	01/10/24 8:18 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/10/24 8:28 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/10/24 8:37 PM	Reported
49	N062239-001AMS	MS	5	Hexavalent Chromium	01/10/24 8:47 PM	Reported
50	MB-R180272	MBLK	1	Hexavalent Chromium	01/10/24 8:56 PM	Reported
51	LCS-R180272	LCS	1	Hexavalent Chromium	01/10/24 9:06 PM	Reported
52	N062276-001A	SAMP	1	Hexavalent Chromium	01/10/24 9:15 PM	Reported
53	N062276-001AMS	MS	1	Hexavalent Chromium	01/10/24 9:25 PM	Reported
54	N062276-001AMSD	MSD	1	Hexavalent Chromium	01/10/24 9:34 PM	Reported
55	N062277-001A	SAMP	1	Hexavalent Chromium	01/10/24 9:43 PM	Reported
56	N062277-001AMS	MS	1	Hexavalent Chromium	01/10/24 9:53 PM	Reported
57	N062277-001ADUP	DUP	1	Hexavalent Chromium	01/10/24 10:02 PM	Reported
58	N062277-002A	SAMP	1	Hexavalent Chromium	01/10/24 10:12 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/10/24 10:21 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/10/24 10:31 PM	Reported
61	N062277-003A	SAMP	1	Hexavalent Chromium	01/10/24 10:40 PM	Reported
62	N062277-004A	SAMP	1	Hexavalent Chromium	01/10/24 10:50 PM	Reported
63	N062278-002A	SAMP	1	Hexavalent Chromium	01/10/24 10:59 PM	Reported
64	N062278-003A	SAMP	1	Hexavalent Chromium	01/10/24 11:09 PM	Reported
65	N062278-004A	SAMP	1	Hexavalent Chromium	01/10/24 11:18 PM	Reported
66	N062278-005A	SAMP	1	Hexavalent Chromium	01/10/24 11:34 PM	Reported
67	N062278-006A	SAMP	1	Hexavalent Chromium	01/10/24 11:45 PM	Reported
68	N062278-007A	SAMP	5	Hexavalent Chromium	01/10/24 11:55 PM	Reported
69	N062278-008A	SAMP	1	Hexavalent Chromium	01/11/24 12:04 AM	Reported
70	N062278-009A	SAMP	1	Hexavalent Chromium	01/11/24 12:14 AM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 12:23 AM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 12:33 AM	Reported
73	N062278-010A	SAMP	1	Hexavalent Chromium	01/11/24 12:42 AM	Reported
74	N062278-011A	SAMP	5	Hexavalent Chromium	01/11/24 12:52 AM	Reported
75	N062278-012A	SAMP	5	Hexavalent Chromium	01/11/24 1:01 AM	Reported
76	N062278-013A	SAMP	1	Hexavalent Chromium	01/11/24 1:10 AM	Reported
77	MB-R180273	MBLK	1	Hexavalent Chromium	01/11/24 1:20 AM	Reported
78	LCS-R180273	LCS	1	Hexavalent Chromium	01/11/24 1:29 AM	Reported
79	N062279-020A	SAMP	1	Hexavalent Chromium	01/11/24 1:39 AM	Reported
80	N062279-020AMS	MS	1	Hexavalent Chromium	01/11/24 1:48 AM	Reported
81	N062279-020AMSD	MSD	1	Hexavalent Chromium	01/11/24 1:58 AM	Reported
82	N062279-004A	SAMP	1	Hexavalent Chromium	01/11/24 2:07 AM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 2:17 AM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 2:26 AM	Reported

INJECTION LOG: 240110A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062279-004ADUP	DUP	1	Hexavalent Chromium	01/11/24 2:36 AM	Reported
86	N062279-004AMS	MS	1	Hexavalent Chromium	01/11/24 2:45 AM	Reported
87	N062279-001A	SAMP	1	Hexavalent Chromium	01/11/24 2:54 AM	Reported
88	N062279-002A	SAMP	1	Hexavalent Chromium	01/11/24 3:04 AM	Reported
89	N062279-003A	SAMP	1	Hexavalent Chromium	01/11/24 3:13 AM	Reported
90	N062279-005A	SAMP	1	Hexavalent Chromium	01/11/24 3:23 AM	Reported
91	N062279-006A	SAMP	1	Hexavalent Chromium	01/11/24 3:32 AM	Reported
92	N062279-008A	SAMP	1	Hexavalent Chromium	01/11/24 3:42 AM	Reported
93	N062279-009A	SAMP	1	Hexavalent Chromium	01/11/24 3:51 AM	Reported
94	N062279-010A	SAMP	1	Hexavalent Chromium	01/11/24 4:01 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/11/24 4:10 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/11/24 4:20 AM	Reported
97	N062279-011A	SAMP	1	Hexavalent Chromium	01/11/24 4:31 AM	Reported
98	N062279-012A	SAMP	1	Hexavalent Chromium	01/11/24 4:41 AM	Reported
99	N062279-013A	SAMP	1	Hexavalent Chromium	01/11/24 4:50 AM	Reported
100	N062279-014A	SAMP	1	Hexavalent Chromium	01/11/24 5:00 AM	Reported
101	N062279-015A	SAMP	1	Hexavalent Chromium	01/11/24 5:09 AM	Reported
102	N062279-016A	SAMP	1	Hexavalent Chromium	01/11/24 5:19 AM	Reported
103	N062279-017A	SAMP	1	Hexavalent Chromium	01/11/24 5:28 AM	Reported
104	N062279-018A	SAMP	1	Hexavalent Chromium	01/11/24 5:38 AM	Reported
105	N062279-019A	SAMP	1	Hexavalent Chromium	01/11/24 5:47 AM	Reported
106	CCV-9	CCV	1	Hexavalent Chromium	01/11/24 5:57 AM	Reported
107	CCB-9	CCB	1	Hexavalent Chromium	01/11/24 6:06 AM	Reported
108	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 6:15 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240110A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	11/Jan/24 10:11:08
No. of Injections:	111	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/10/2024 13:33	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/10/2024 13:44	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/10/2024 13:53	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/10/2024 14:03	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/10/2024 14:12	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/10/2024 14:22	Finished	LCS @5ppb, IWST-231228B
15	N062239-001A,SAMF	1	1000	Unknown		01/10/2024 14:56	Finished	SAMP,10 mL
16	N062239-001AMS,MS	2	1000	Unknown		01/10/2024 15:09	Finished	MS (1ppb), IWST-231228B,10r
17	N062243-001A,SAMF	3	1000	Unknown		01/10/2024 15:18	Finished	SAMP,10 mL
18	N062243-002A,SAMF	4	1000	Unknown		01/10/2024 15:28	Finished	SAMP,10 mL
19	N062243-003A,SAMF	5	1000	Unknown		01/10/2024 15:37	Finished	SAMP,10 mL
20	N062243-004A,SAMF	6	1000	Unknown		01/10/2024 15:47	Finished	SAMP,10 mL
21	N062244-003A,SAMF	7	1000	Unknown		01/10/2024 15:56	Finished	SAMP,10 mL
22	N062244-005A,SAMF	8	1000	Unknown		01/10/2024 16:05	Finished	SAMP,10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/10/2024 16:15	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/10/2024 16:24	Finished	CCB R231030A
25	N062243-002A,SAMF	11	1000	Unknown		01/10/2024 16:34	Finished	SAMP,2>10 mL
26	N062243-002AMS,MS	12	1000	Unknown		01/10/2024 16:43	Finished	MS (5ppb), IWST-231228B,2>
27	N062243-002AMSD,N	13	1000	Unknown		01/10/2024 16:53	Finished	MSD (5ppb), IWST-231228B,2
28	N062243-003A,SAMF	14	1000	Unknown		01/10/2024 17:02	Finished	SAMP,2>10 mL
29	N062243-003ADUP,D	15	1000	Unknown		01/10/2024 17:12	Finished	DUP,2>10 mL
30	N062243-003AMS,MS	1	1000	Unknown		01/10/2024 17:22	Finished	MS (5ppb), IWST-231228B,2>
31	N062245-001A,SAMF	2	1000	Unknown		01/10/2024 17:33	Finished	SAMP,10 mL
32	N062245-002A,SAMF	1	1000	Unknown		01/10/2024 18:05	Finished	SAMP,10 mL
33	N062245-003A,SAMF	2	1000	Unknown		01/10/2024 18:15	Finished	SAMP,10 mL
34	N062245-004A,SAMF	3	1000	Unknown		01/10/2024 18:25	Finished	SAMP,10 mL
35	CCV-3,CCV,1,	4	1000	Unknown		01/10/2024 18:34	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	5	1000	Unknown		01/10/2024 18:44	Finished	CCB R231030A
37	N062245-008A,SAMF	6	1000	Unknown		01/10/2024 18:53	Finished	SAMP,0.5>10 mL
38	N062245-011A,SAMF	7	1000	Unknown		01/10/2024 19:03	Finished	SAMP,1>10 mL
39	N062245-012A,SAMF	8	1000	Unknown		01/10/2024 19:12	Finished	SAMP,0.5>10 mL
40	N062245-005A,SAMF	9	1000	Unknown		01/10/2024 19:22	Finished	MS (1ppb), IWST-231228B,10r
41	N062245-006A,SAMF	10	1000	Unknown		01/10/2024 19:31	Finished	SAMP,10 mL
42	N062245-007A,SAMF	11	1000	Unknown		01/10/2024 19:40	Finished	MS (1ppb), IWST-231228B,10r
43	N062245-009A,SAMF	12	1000	Unknown		01/10/2024 19:50	Finished	SAMP,10 mL
44	N062245-010A,SAMF	13	1000	Unknown		01/10/2024 19:59	Finished	MS (1ppb), IWST-231228B,10r
45	N062245-013A,SAMF	14	1000	Unknown		01/10/2024 20:09	Finished	SAMP,10 mL
46	N062239-001A,SAMF	15	1000	Unknown		01/10/2024 20:18	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	16	1000	Unknown		01/10/2024 20:28	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	17	1000	Unknown		01/10/2024 20:37	Finished	CCB R231030A
49	N062239-001AMS,MS	18	1000	Unknown		01/10/2024 20:47	Finished	MS (1ppb), IWST-231228B,2>
50	MB-2,MBLK,1,	19	1000	Unknown		01/10/2024 20:56	Finished	MB R231227C
51	LCS-2,LCS,1,	20	1000	Unknown		01/10/2024 21:06	Finished	LCS @5ppb, IWST-231228B
52	N062276-001A,SAMF	21	1000	Unknown		01/10/2024 21:15	Finished	SAMP,10 mL
53	N062276-001AMS,MS	22	1000	Unknown		01/10/2024 21:25	Finished	MS (1ppb), IWST-231228B,10r
54	N062276-001AMSD,N	23	1000	Unknown		01/10/2024 21:34	Finished	MSD (1ppb), IWST-231228B,1
55	N062277-001A,SAMF	24	1000	Unknown		01/10/2024 21:43	Finished	SAMP,10 mL
56	N062277-001AMS,MS	25	1000	Unknown		01/10/2024 21:53	Finished	MS (1ppb), IWST-231228B,10r
57	N062277-001ADUP,D	26	1000	Unknown		01/10/2024 22:02	Finished	DUP,10 mL
58	N062277-002A,SAMF	27	1000	Unknown		01/10/2024 22:12	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	28	1000	Unknown		01/10/2024 22:21	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	29	1000	Unknown		01/10/2024 22:31	Finished	CCB R231227C

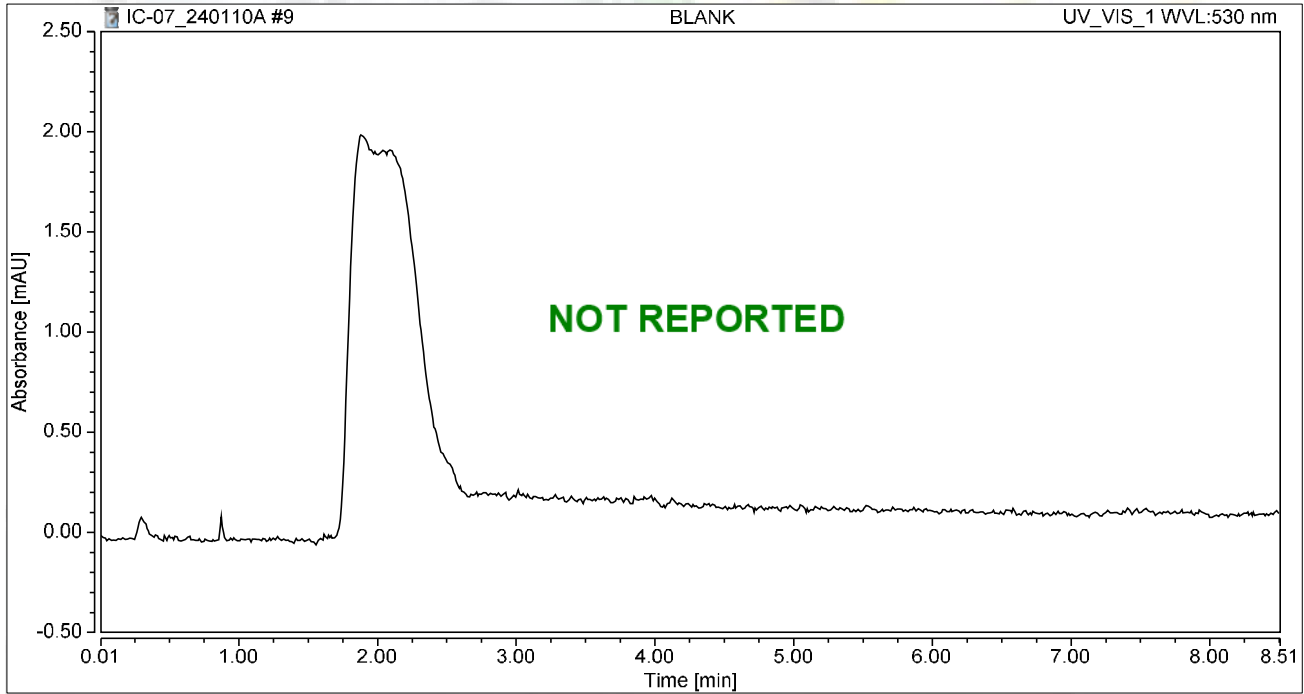
61	N062277-003A,SAMF	30	1000	Unknown	01/10/2024 22:40	Finished	SAMP,10 mL
62	N062277-004A,SAMF	31	1000	Unknown	01/10/2024 22:50	Finished	SAMP,10 mL
63	N062278-002A,SAMF	32	1000	Unknown	01/10/2024 22:59	Finished	SAMP,10 mL
64	N062278-003A,SAMF	33	1000	Unknown	01/10/2024 23:09	Finished	SAMP,10 mL
65	N062278-004A,SAMF	34	1000	Unknown	01/10/2024 23:18	Finished	SAMP,10 mL
66	N062278-005A,SAMF	1	1000	Unknown	01/10/2024 23:34	Finished	SAMP,10 mL
67	N062278-006A,SAMF	2	1000	Unknown	01/10/2024 23:45	Finished	SAMP,10 mL
68	N062278-007A,SAMF	3	1000	Unknown	01/10/2024 23:55	Finished	SAMP,2>10 mL
69	N062278-008A,SAMF	4	1000	Unknown	01/11/2024 00:04	Finished	SAMP,10 mL
70	N062278-009A,SAMF	5	1000	Unknown	01/11/2024 00:14	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	6	1000	Unknown	01/11/2024 00:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	7	1000	Unknown	01/11/2024 00:33	Finished	CCB R231227C
73	N062278-010A,SAMF	8	1000	Unknown	01/11/2024 00:42	Finished	SAMP,10 mL
74	N062278-011A,SAMF	9	1000	Unknown	01/11/2024 00:52	Finished	SAMP,2>10 mL
75	N062278-012A,SAMF	10	1000	Unknown	01/11/2024 01:01	Finished	SAMP,2>10 mL
76	N062278-013A,SAMF	11	1000	Unknown	01/11/2024 01:10	Finished	SAMP,10 mL
77	MB-3,MBLK,1,	12	1000	Unknown	01/11/2024 01:20	Finished	MB R231227C
78	LCS-3,LCS,1,	13	1000	Unknown	01/11/2024 01:29	Finished	LCS @5ppb, IWST-231228B
79	N062279-020A,SAMF	14	1000	Unknown	01/11/2024 01:39	Finished	SAMP,10 mL
80	N062279-020AMS,MS	15	1000	Unknown	01/11/2024 01:48	Finished	MS (1ppb), IWST-231228B,10r
81	N062279-020AMSD,MS	16	1000	Unknown	01/11/2024 01:58	Finished	MSD (1ppb), IWST-231228B,10r
82	N062279-004A,SAMF	17	1000	Unknown	01/11/2024 02:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	18	1000	Unknown	01/11/2024 02:17	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	19	1000	Unknown	01/11/2024 02:26	Finished	CCB R231227C
85	N062279-004ADUP,D	20	1000	Unknown	01/11/2024 02:36	Finished	DUP,10 mL
86	N062279-004AMS,MS	21	1000	Unknown	01/11/2024 02:45	Finished	MS (1ppb), IWST-231228B,10r
87	N062279-001A,SAMF	22	1000	Unknown	01/11/2024 02:54	Finished	SAMP,10 mL
88	N062279-002A,SAMF	23	1000	Unknown	01/11/2024 03:04	Finished	SAMP,10 mL
89	N062279-003A,SAMF	24	1000	Unknown	01/11/2024 03:13	Finished	SAMP,10 mL
90	N062279-005A,SAMF	25	1000	Unknown	01/11/2024 03:23	Finished	SAMP,10 mL
91	N062279-006A,SAMF	26	1000	Unknown	01/11/2024 03:32	Finished	SAMP,10 mL
92	N062279-008A,SAMF	27	1000	Unknown	01/11/2024 03:42	Finished	SAMP,10 mL
93	N062279-009A,SAMF	28	1000	Unknown	01/11/2024 03:51	Finished	SAMP,10 mL
94	N062279-010A,SAMF	29	1000	Unknown	01/11/2024 04:01	Finished	SAMP,10 mL
95	CCV-8,CCV1,1,	30	1000	Unknown	01/11/2024 04:10	Finished	CCV @10ppb, IWST-231228A
96	CCB-8,CCB,1,	31	1000	Unknown	01/11/2024 04:20	Finished	CCB R231227C
97	N062279-011A,SAMF	32	1000	Unknown	01/11/2024 04:31	Finished	SAMP,10 mL
98	N062279-012A,SAMF	33	1000	Unknown	01/11/2024 04:41	Finished	SAMP,10 mL
99	N062279-013A,SAMF	34	1000	Unknown	01/11/2024 04:50	Finished	SAMP,10 mL
100	N062279-014A,SAMF	35	1000	Unknown	01/11/2024 05:00	Finished	SAMP,10 mL
101	N062279-015A,SAMF	36	1000	Unknown	01/11/2024 05:09	Finished	SAMP,10 mL
102	N062279-016A,SAMF	37	1000	Unknown	01/11/2024 05:19	Finished	SAMP,10 mL
103	N062279-017A,SAMF	38	1000	Unknown	01/11/2024 05:28	Finished	SAMP,10 mL
104	N062279-018A,SAMF	39	1000	Unknown	01/11/2024 05:38	Finished	SAMP,10 mL
105	N062279-019A,SAMF	40	1000	Unknown	01/11/2024 05:47	Finished	SAMP,10 mL
106	CCV-9,CCV,1,	41	1000	Unknown	01/11/2024 05:57	Finished	CCV @5ppb, IWST-231228A
107	CCB-9,CCB,1,	42	1000	Unknown	01/11/2024 06:06	Finished	CCB R231227C
108	BLANK	43	1000	Unknown	01/11/2024 06:15	Finished	BLANK
109	SHUTDOWN	44	1000	Unknown	01/11/2024 06:25	Finished	
110	Eluent: R240108A	45	1000	Unknown	n.a.	Finished	
111	PCR: R240108B	46	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 13:33	Sample Weight:	1.0000

Chromatogram



Integration Results

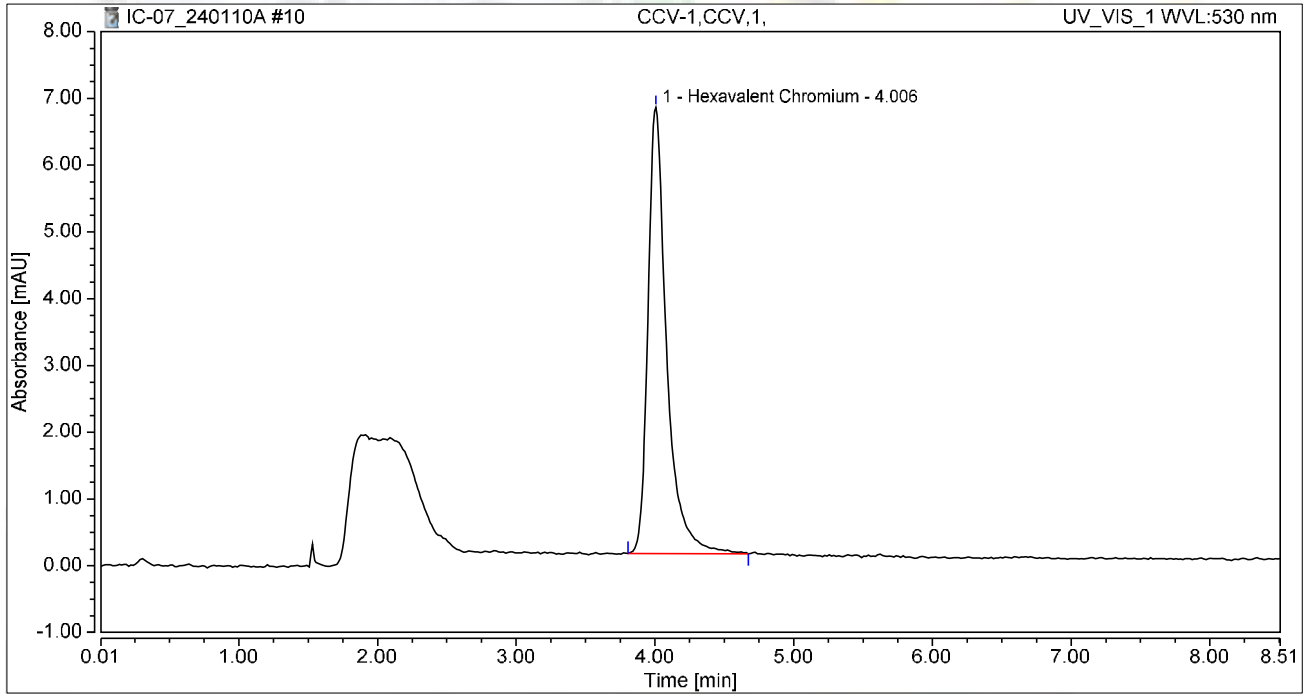
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 13:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.043	6.681	100.00	100.00	5.0103
Total:			1.043	6.681	100.00	100.00	

Reviewed by:

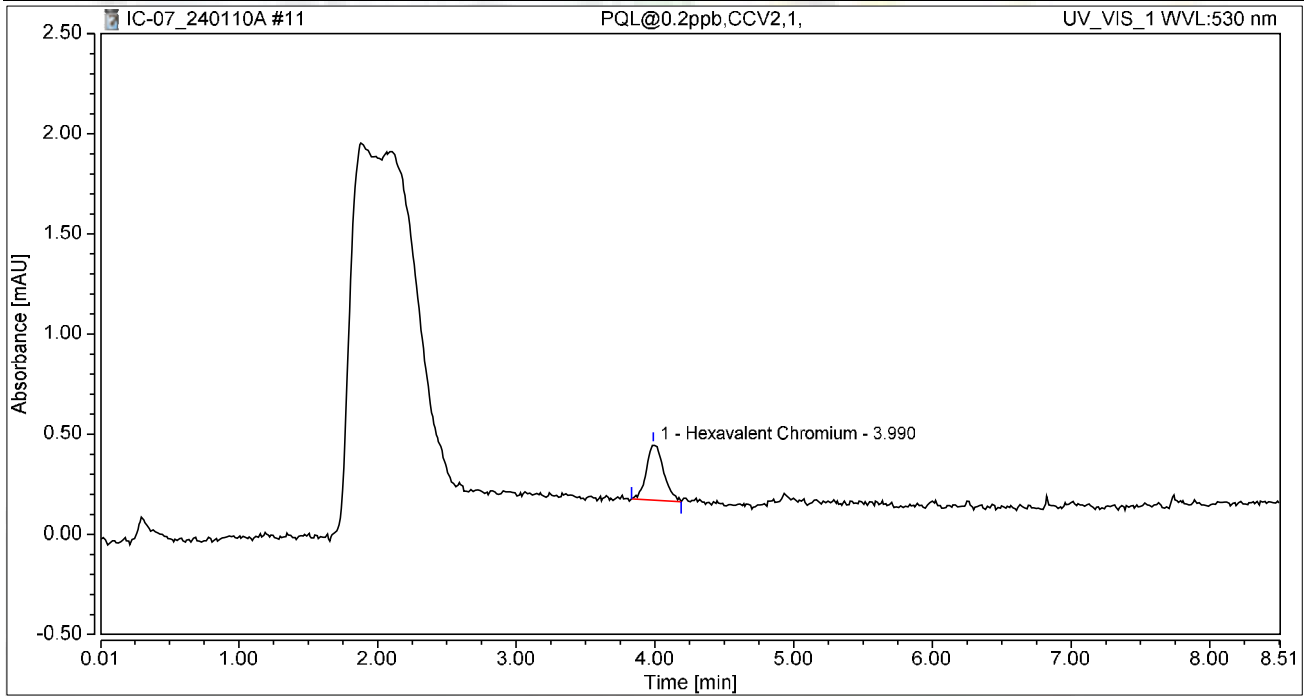
JRB 1/18/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 13:53	Sample Weight:	1.0000

Chromatogram



Integration Results

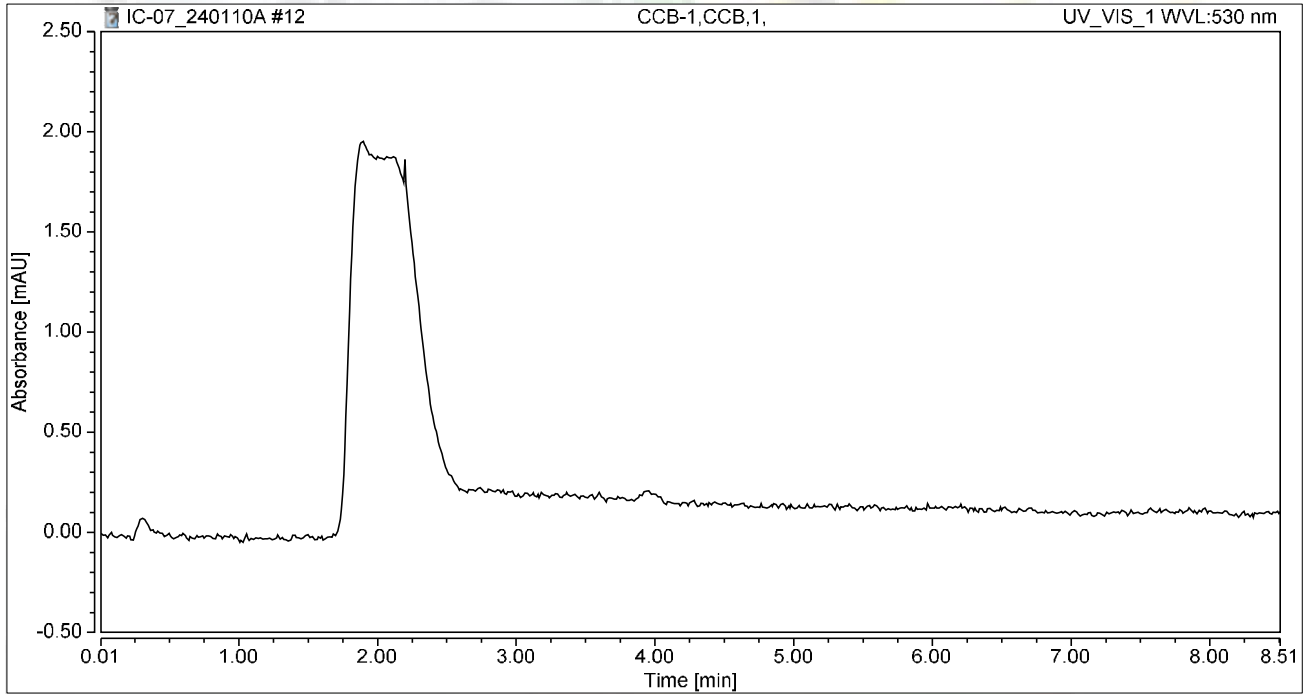
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.040	0.279	100.00	100.00	0.1930
Total:			0.040	0.279	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 14:03	Sample Weight:	1.0000

Chromatogram



Integration Results

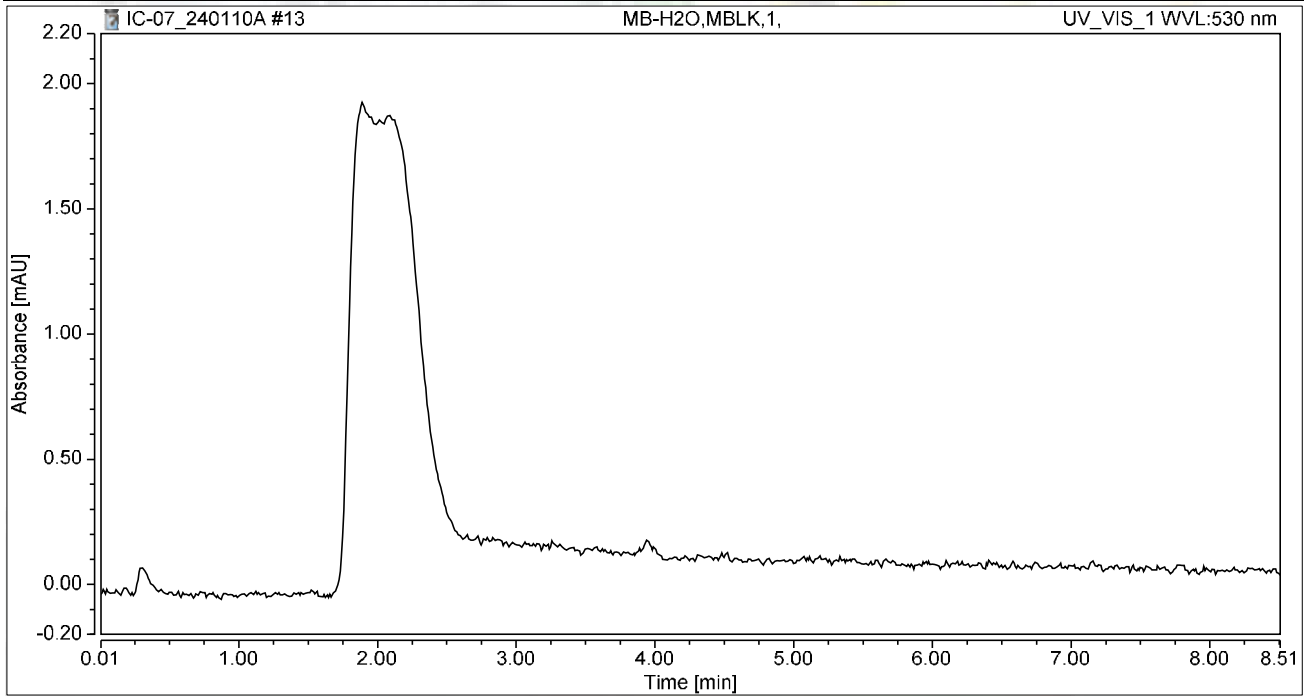
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 14:12	Sample Weight:	1.0000

Chromatogram



Integration Results

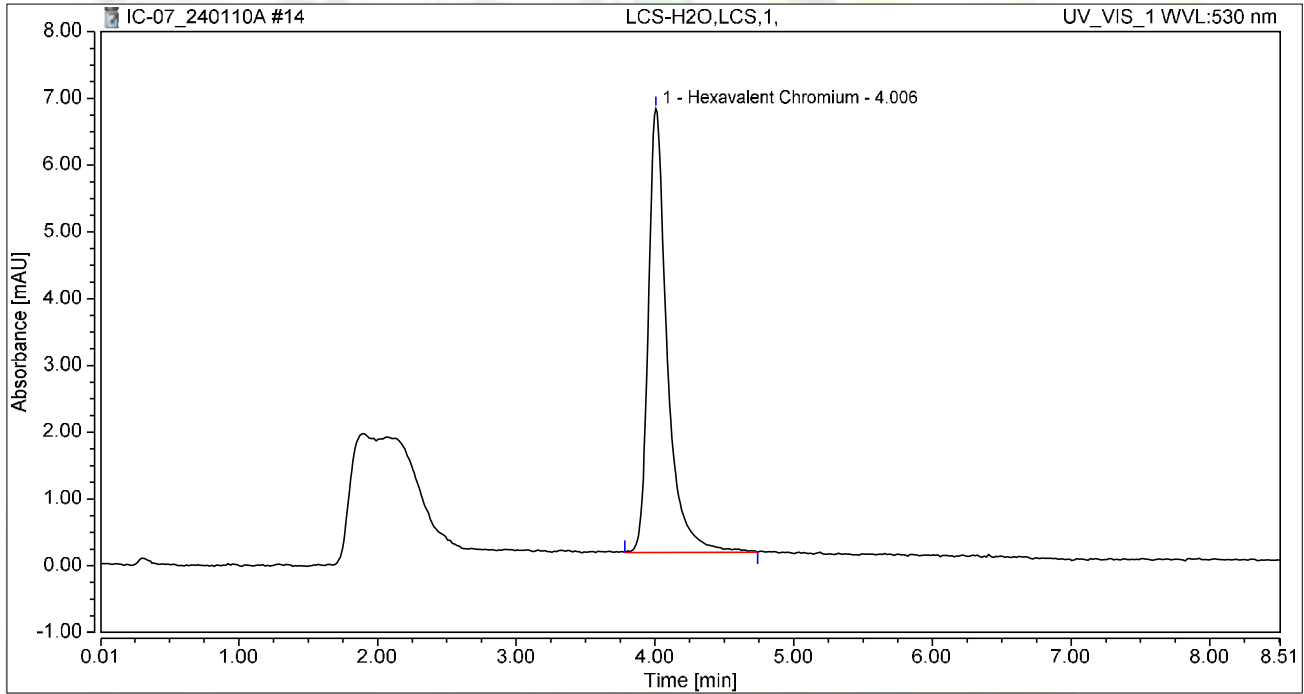
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 14:22	Sample Weight:	1.0000

Chromatogram



Integration Results

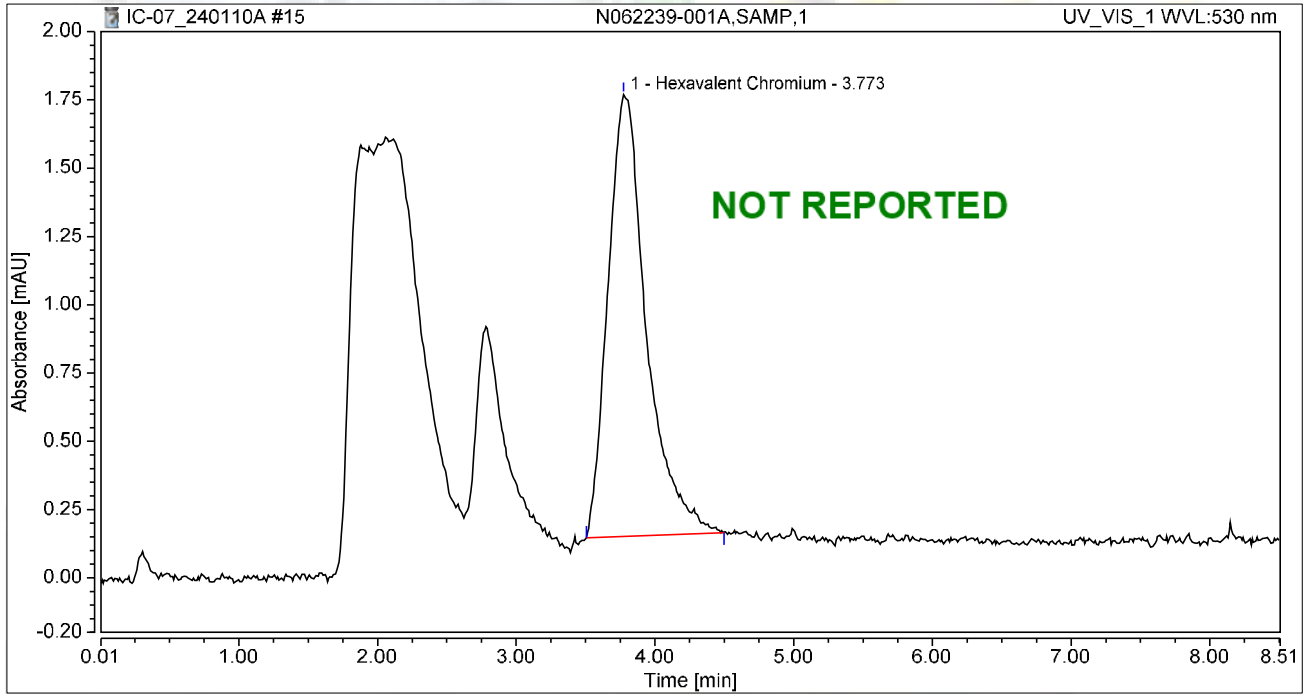
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.045	6.648	100.00	100.00	5.0233
Total:			1.045	6.648	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062239-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 14:56	Sample Weight:	1.0000

Chromatogram



Integration Results

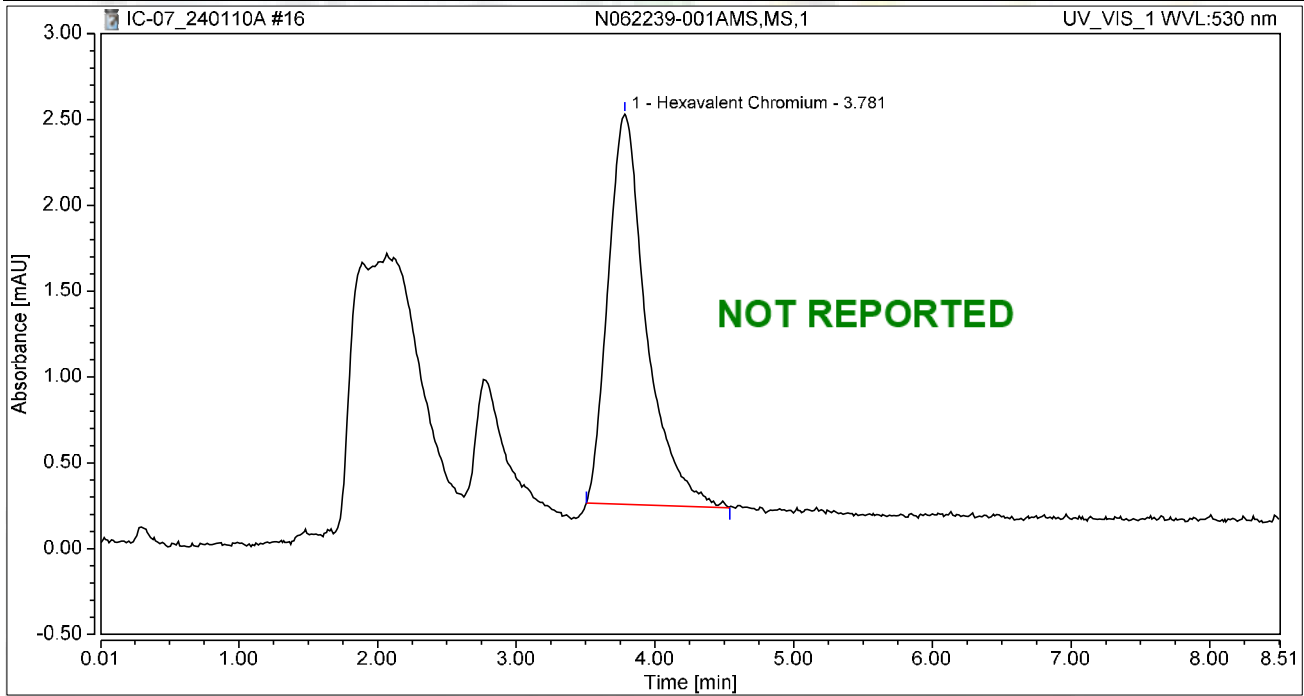
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.773	0.518	1.618	100.00	100.00	2.4916
Total:			0.518	1.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062239-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:09	Sample Weight:	1.0000

Chromatogram



Integration Results

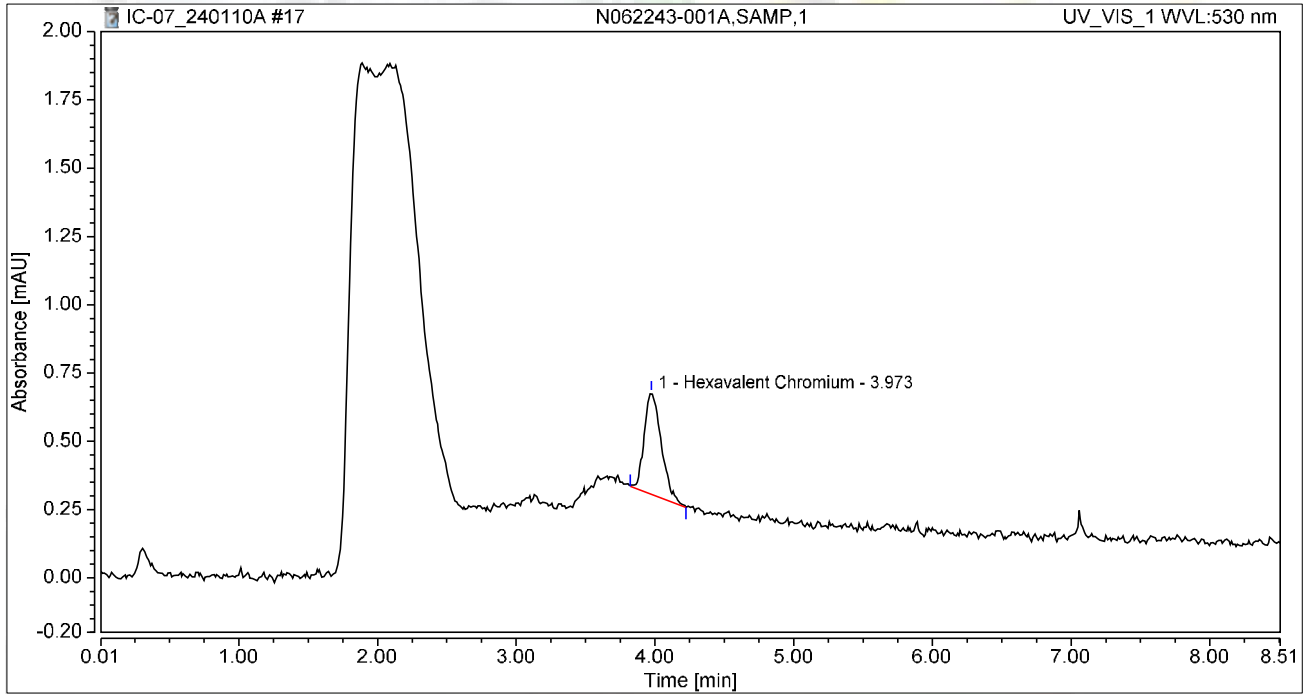
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.781	0.725	2.274	100.00	100.00	3.4832
Total:			0.725	2.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:18	Sample Weight:	1.0000

Chromatogram



Integration Results

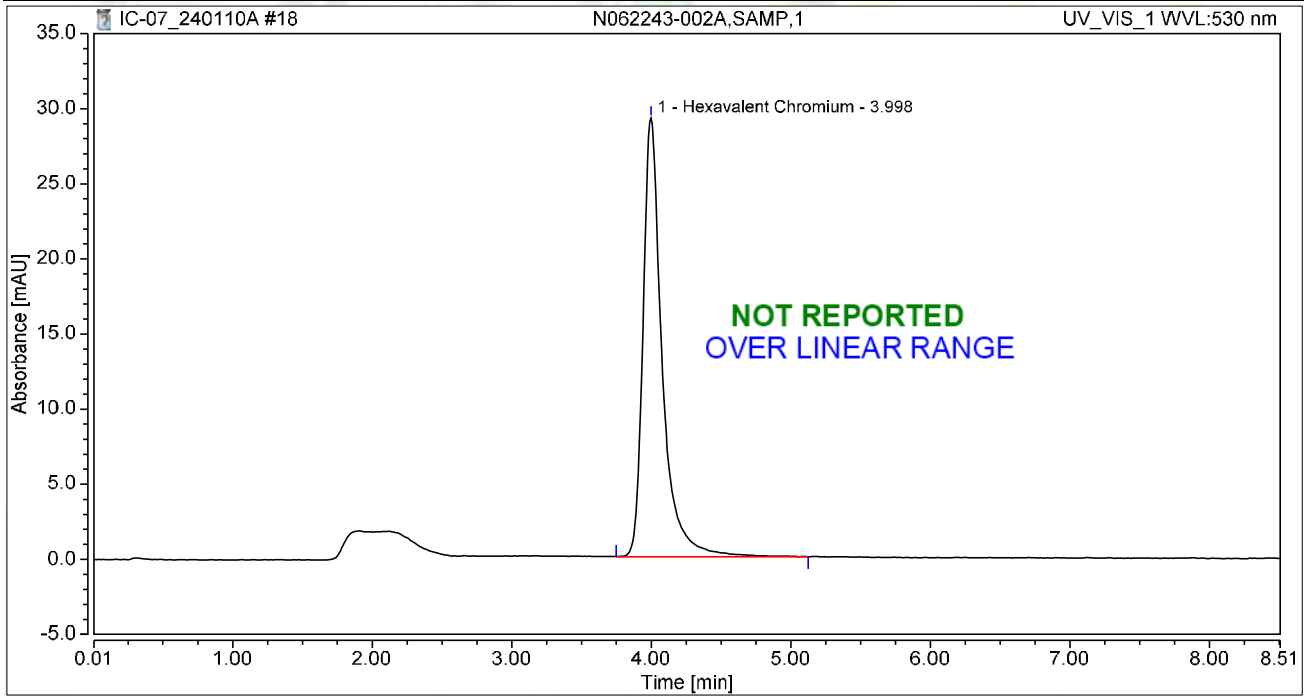
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.053	0.370	100.00	100.00	0.2556
Total:			0.053	0.370	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:28	Sample Weight:	1.0000

Chromatogram



Integration Results

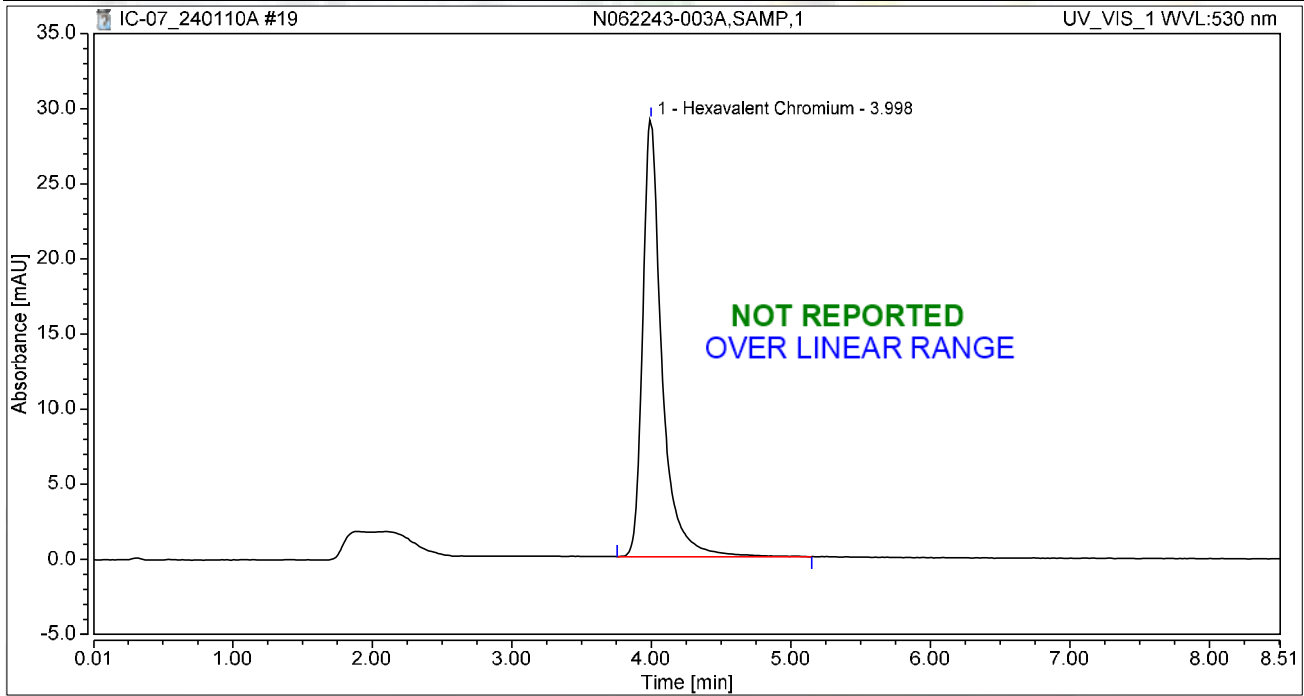
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	4.652	29.202	100.00	100.00	22.3550
Total:			4.652	29.202	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:37	Sample Weight:	1.0000

Chromatogram



Integration Results

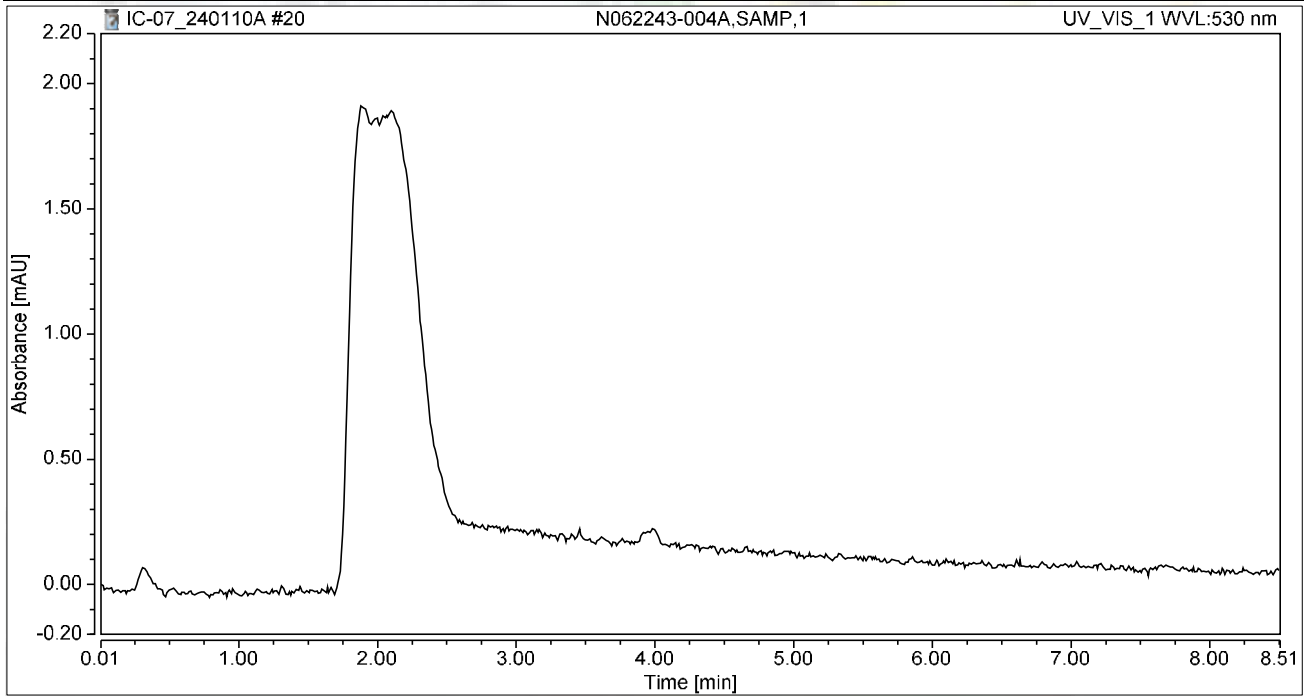
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	4.670	29.110	100.00	100.00	22.4435
Total:			4.670	29.110	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:47	Sample Weight:	1.0000

Chromatogram



Integration Results

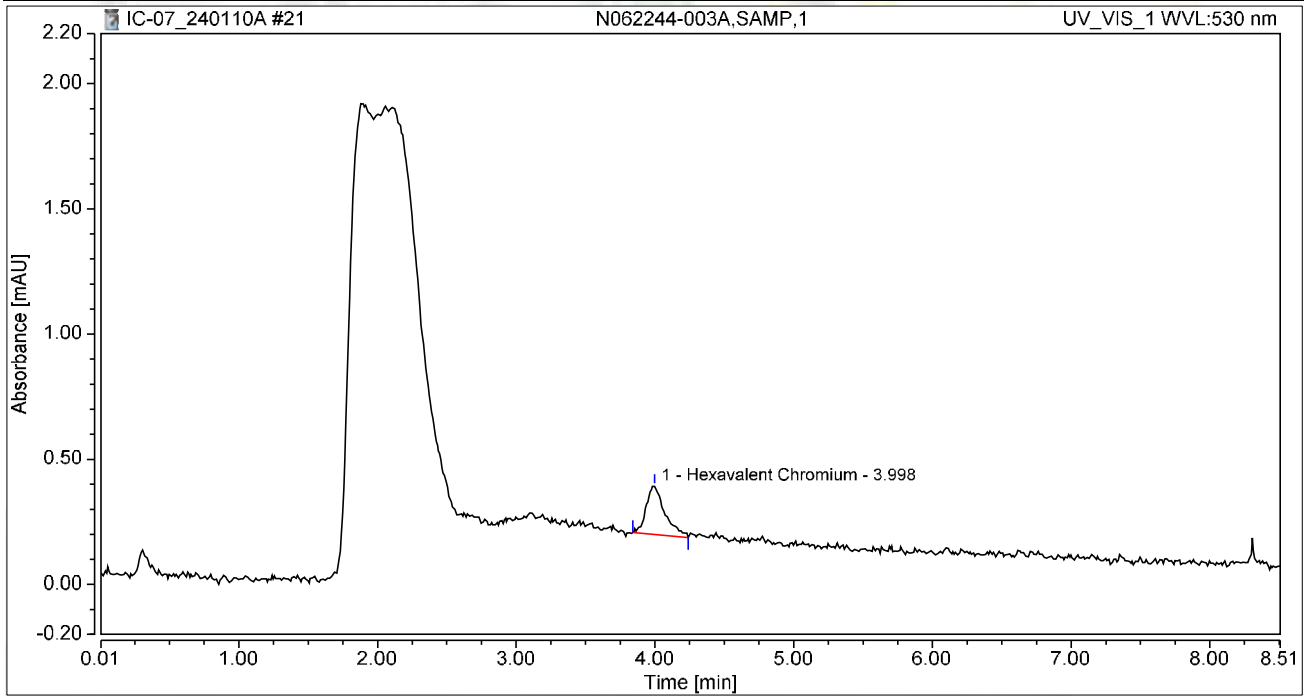
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062244-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 15:56	Sample Weight:	1.0000

Chromatogram



Integration Results

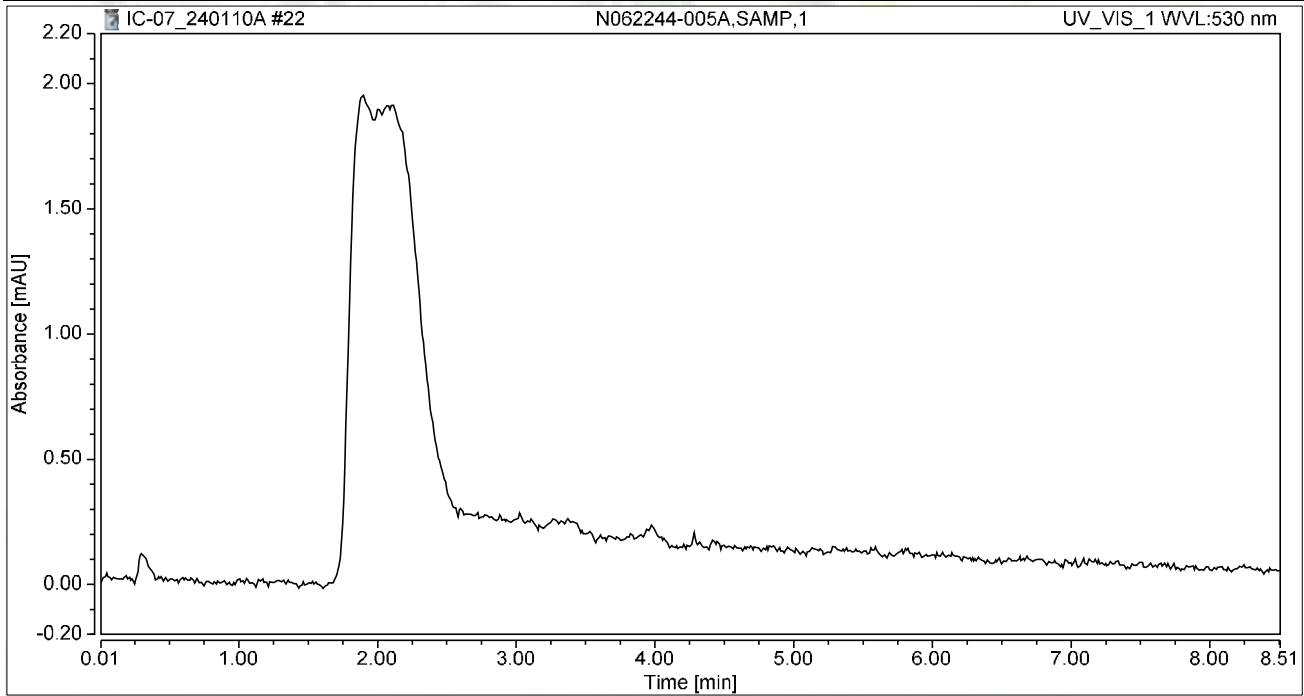
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.030	0.193	100.00	100.00	0.1454
Total:			0.030	0.193	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062244-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

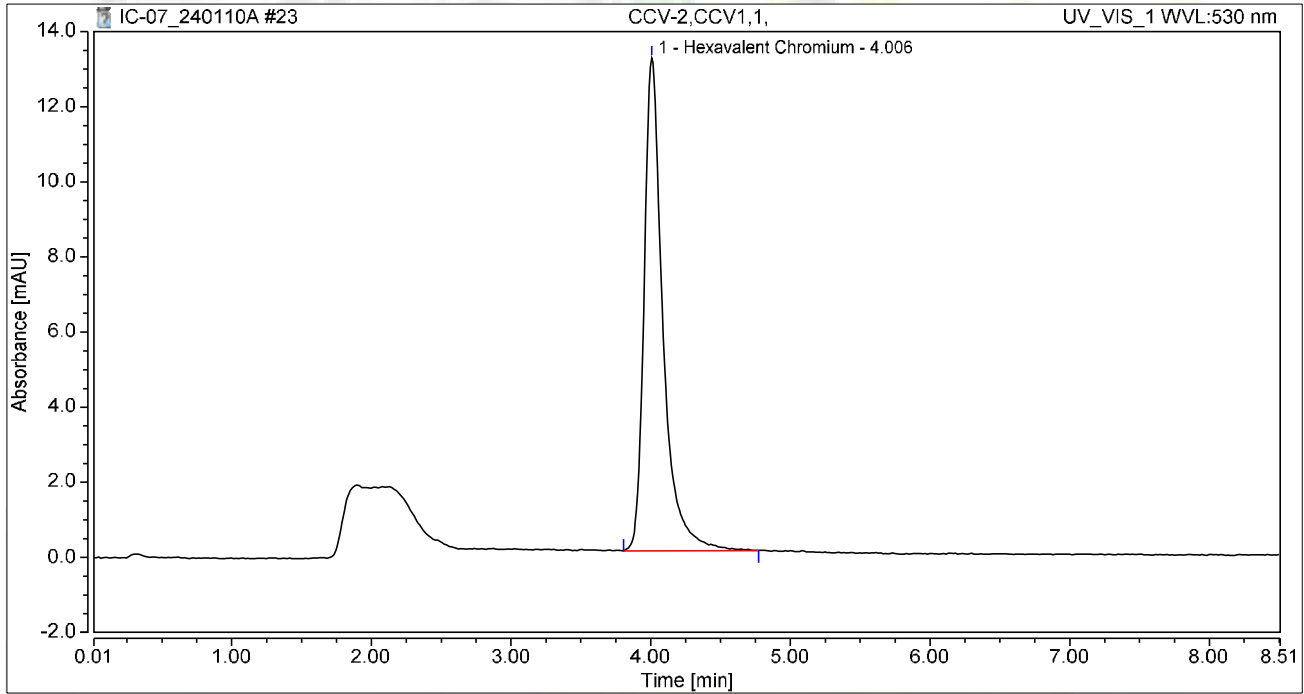
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:15	Sample Weight:	1.0000

Chromatogram



Integration Results

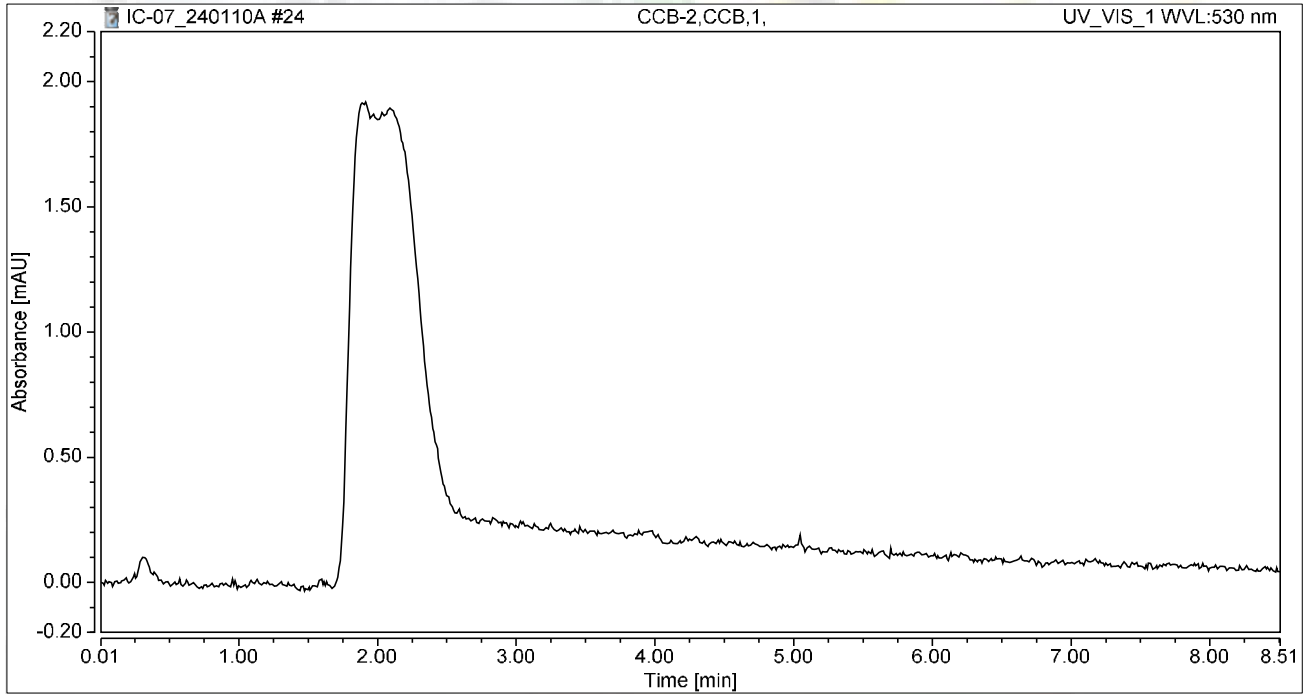
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.055	13.122	100.00	100.00	9.8765
Total:			2.055	13.122	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

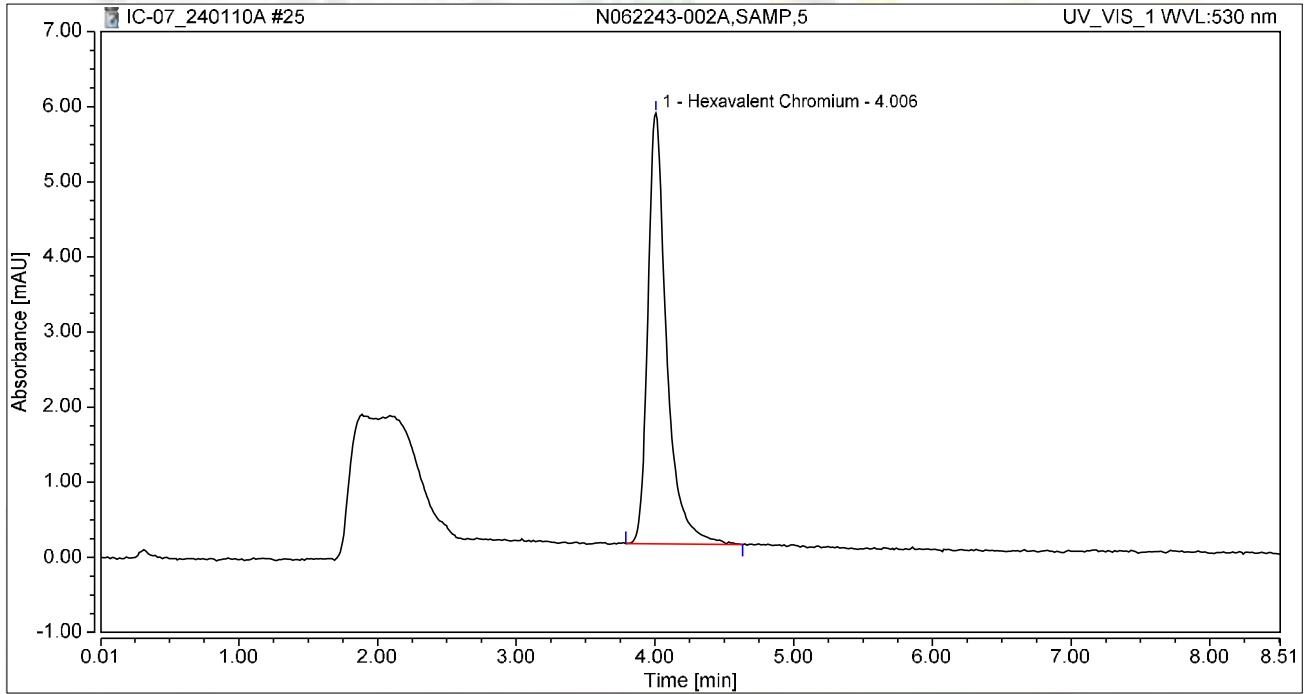
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:34	Sample Weight:	1.0000

Chromatogram



Integration Results

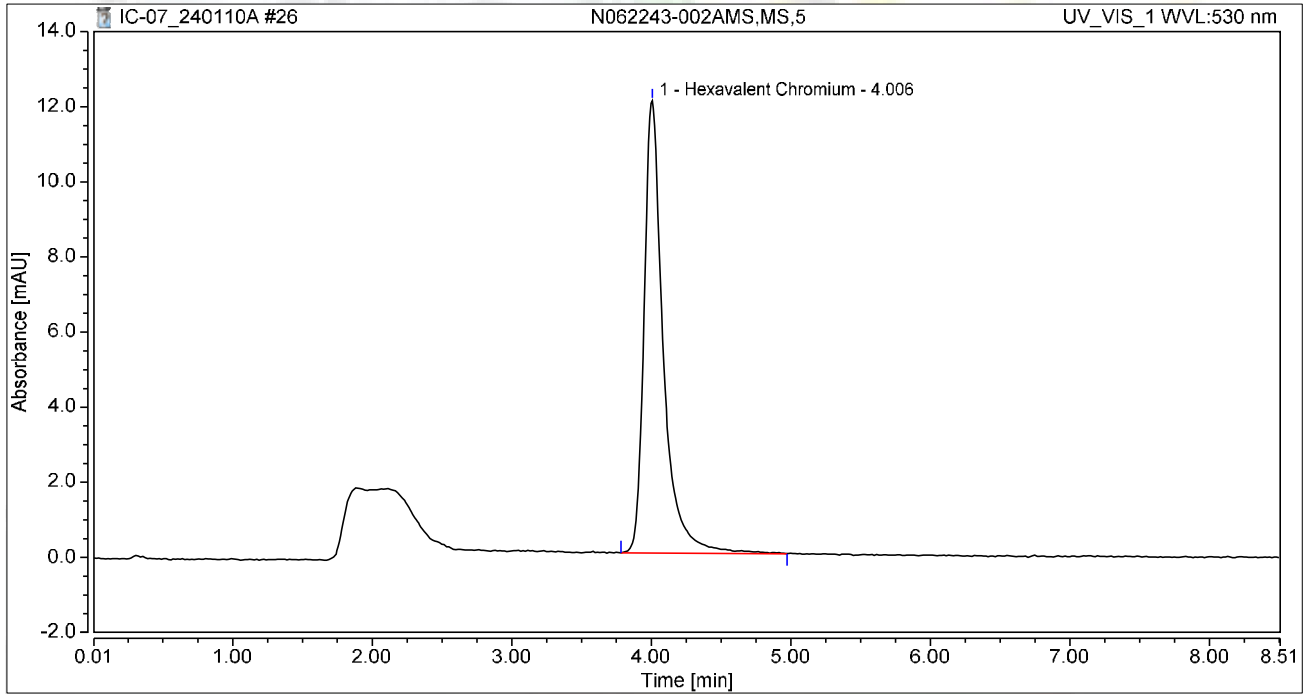
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.898	5.736	100.00	100.00	4.3138
Total:			0.898	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

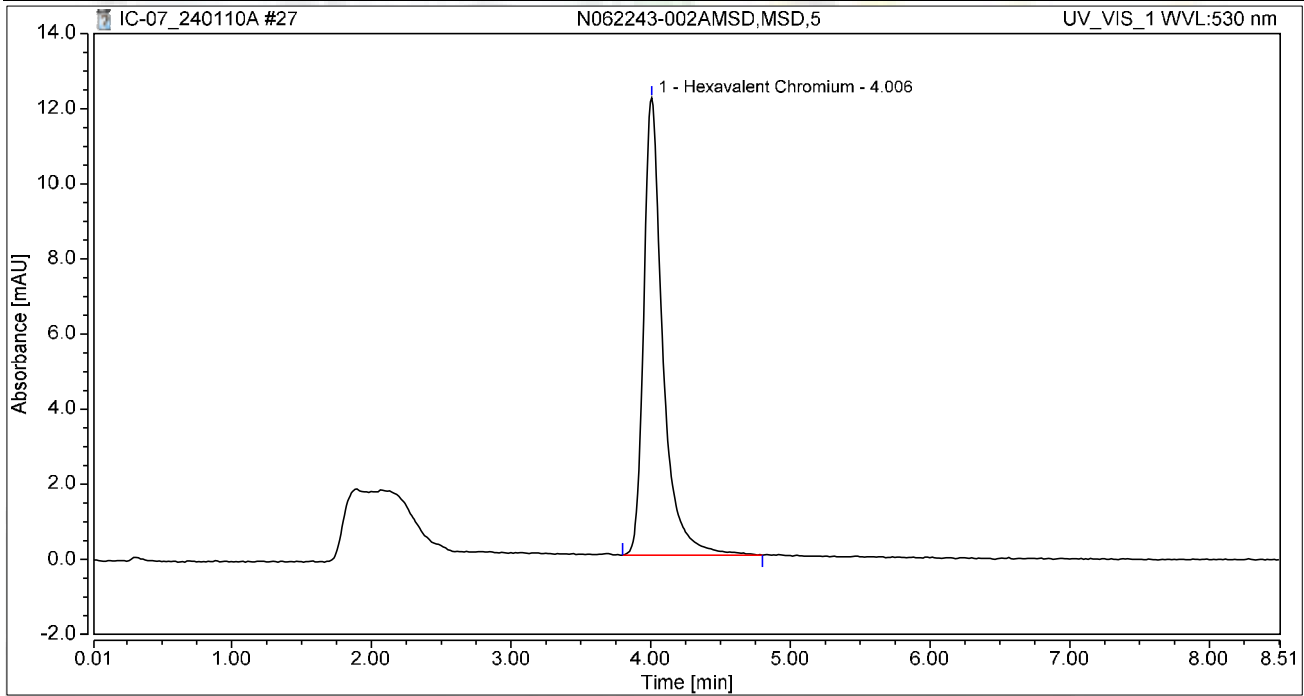
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.921	12.041	100.00	100.00	9.2299
Total:			1.921	12.041	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-002AMSD,MSD,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 16:53	Sample Weight:	1.0000

Chromatogram



Integration Results

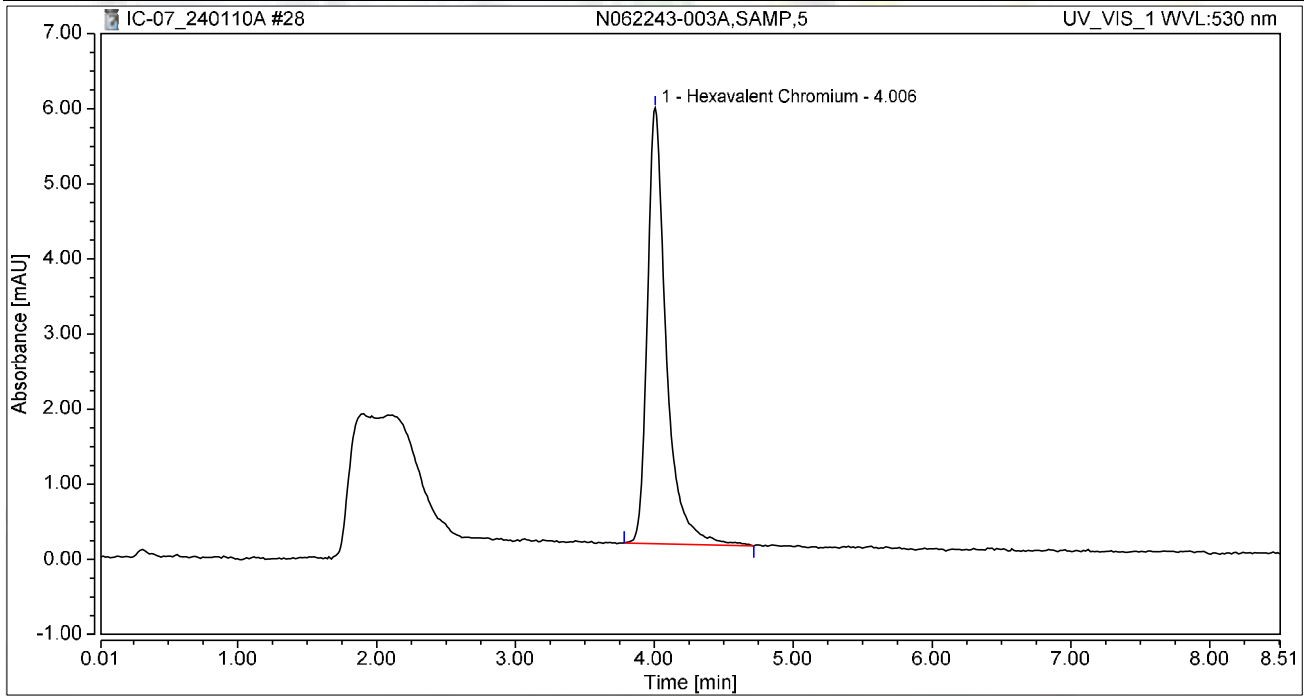
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.926	12.169	100.00	100.00	9.2568
Total:			1.926	12.169	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

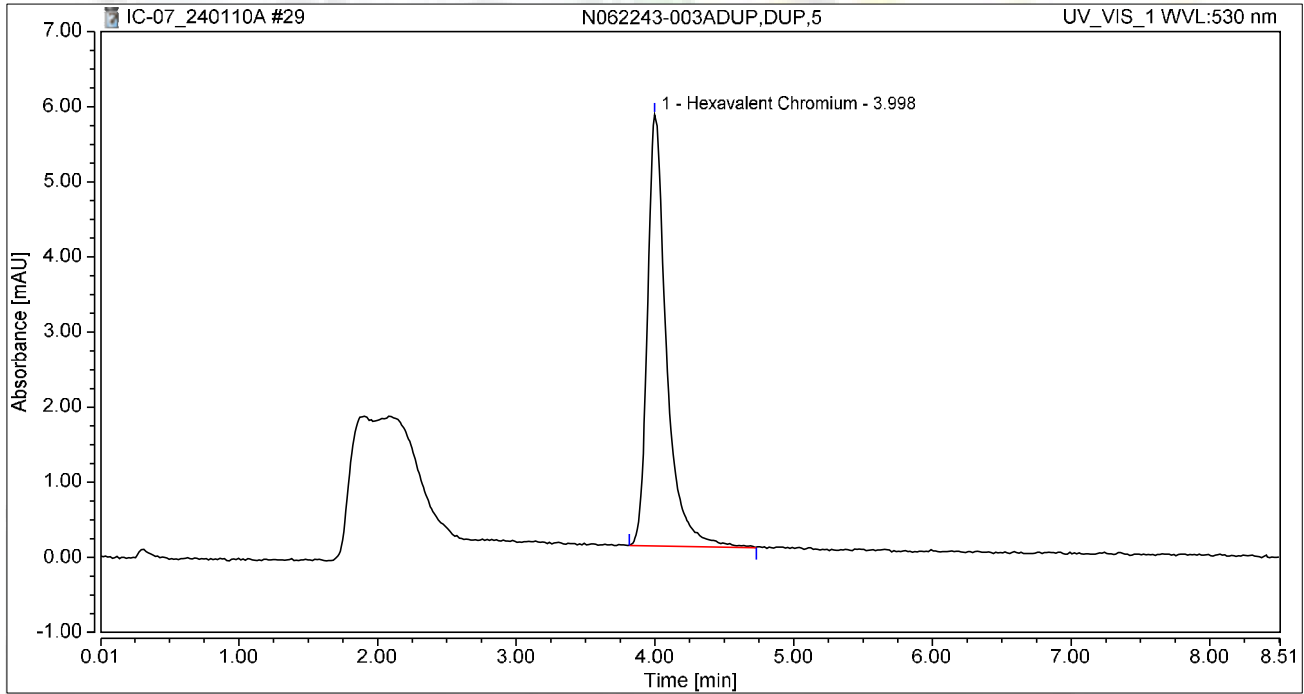
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.917	5.805	100.00	100.00	4.4060
Total:			0.917	5.805	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-003ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 17:12	Sample Weight:	1.0000

Chromatogram



Integration Results

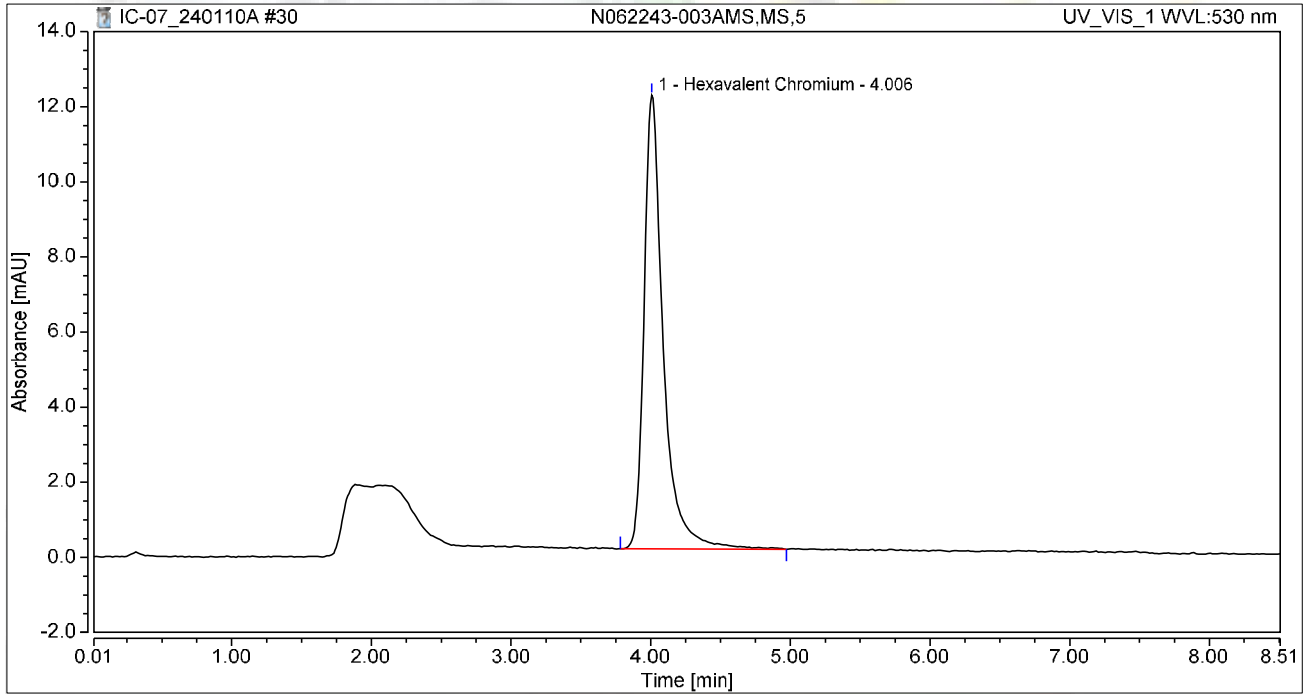
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.916	5.742	100.00	100.00	4.4015
Total:			0.916	5.742	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062243-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

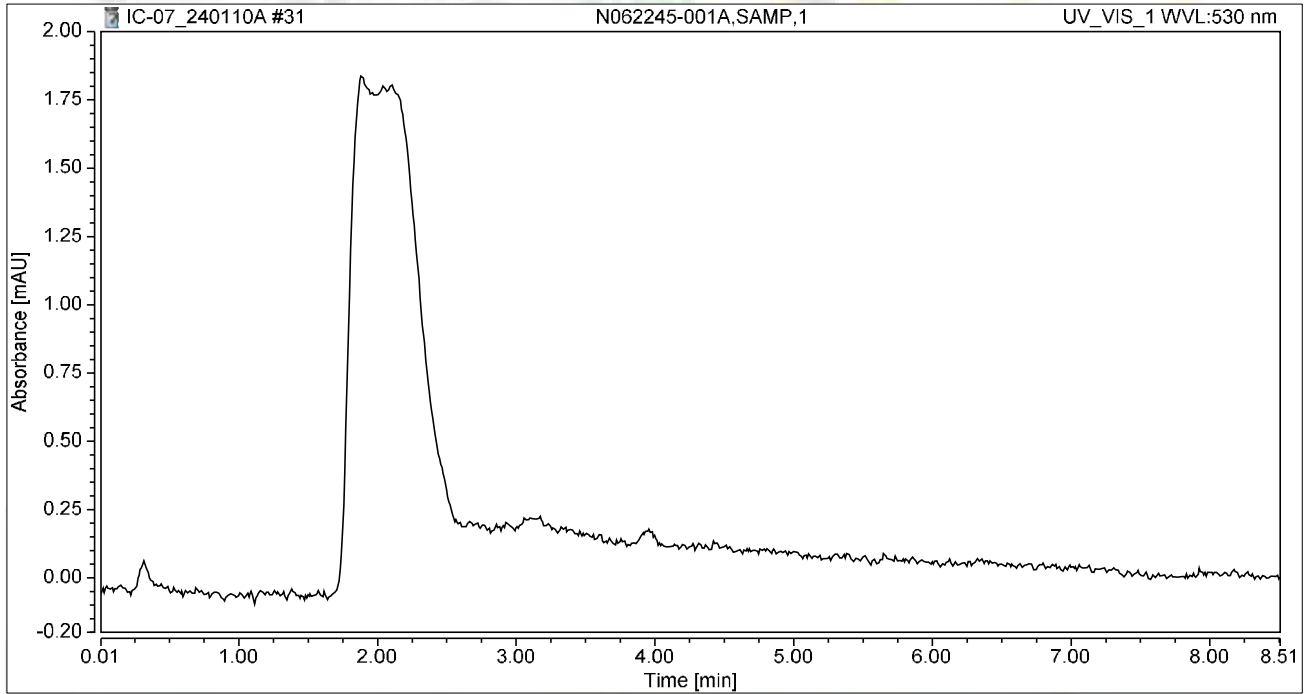
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.926	12.073	100.00	100.00	9.2576
Total:			1.926	12.073	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 17:33	Sample Weight:	1.0000

Chromatogram



Integration Results

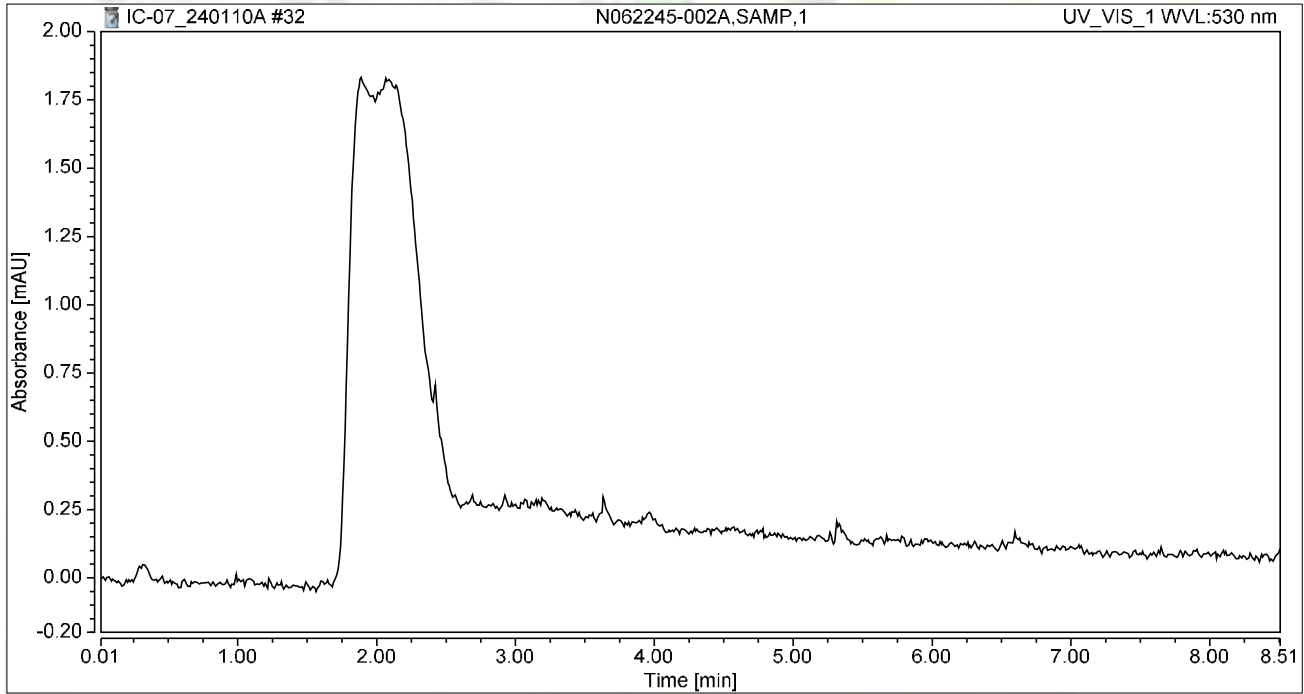
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:05	Sample Weight:	1.0000

Chromatogram



Integration Results

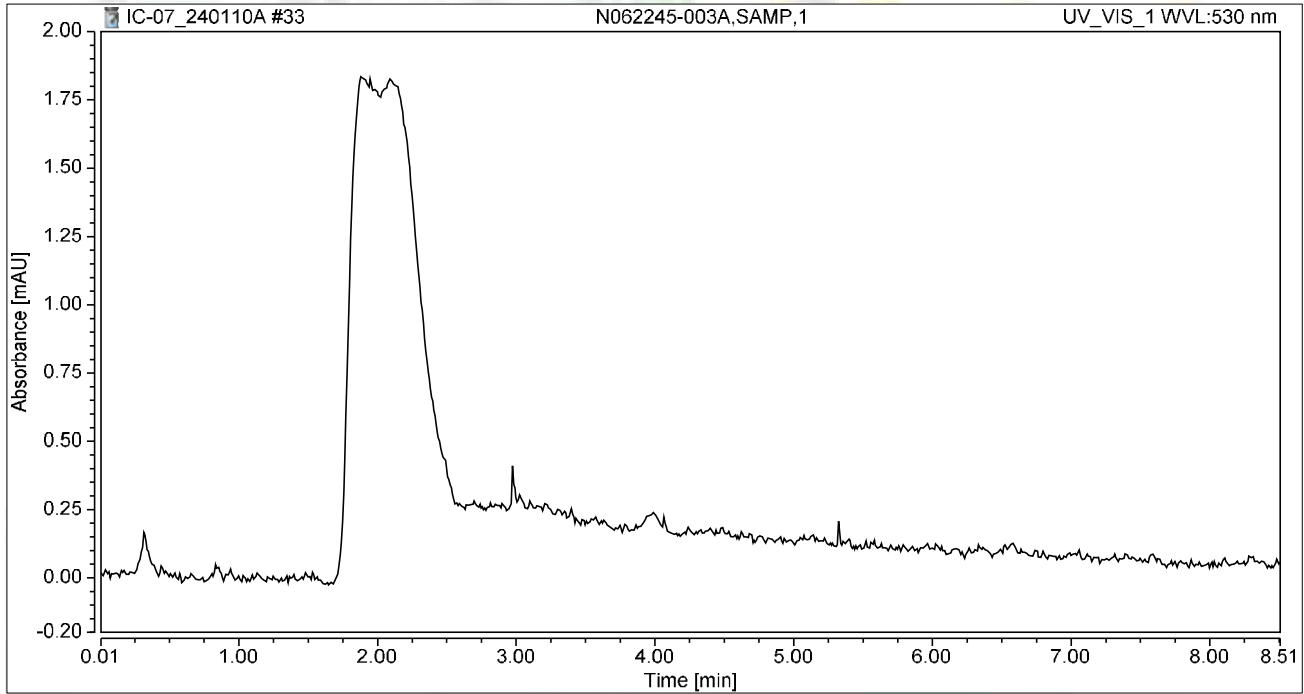
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:15	Sample Weight:	1.0000

Chromatogram



Integration Results

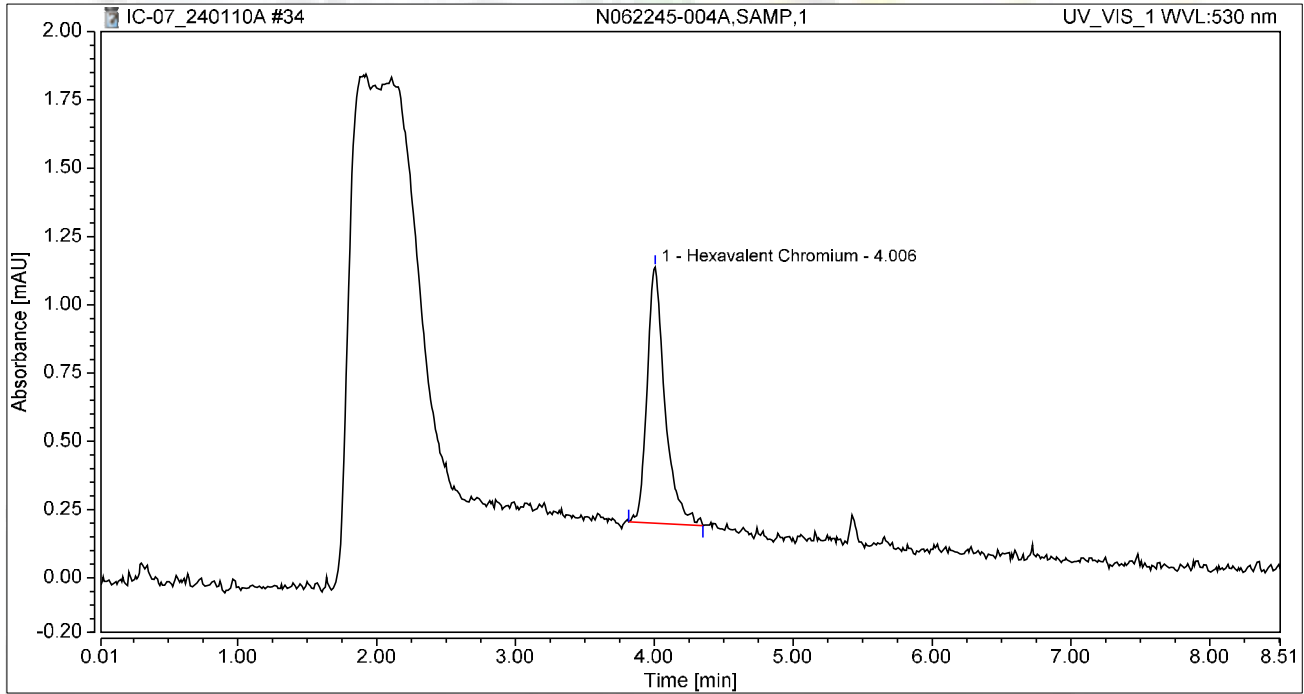
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:25	Sample Weight:	1.0000

Chromatogram



Integration Results

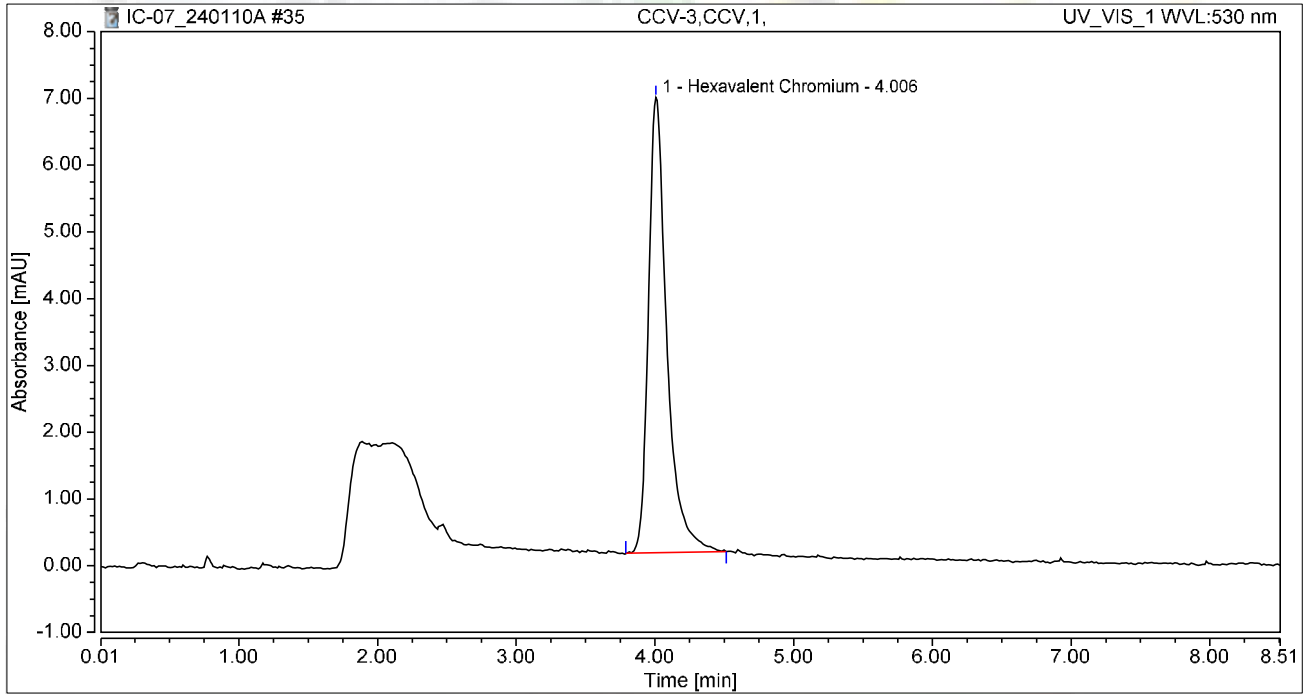
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.140	0.937	100.00	100.00	0.6711
Total:			0.140	0.937	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:34	Sample Weight:	1.0000

Chromatogram



Integration Results

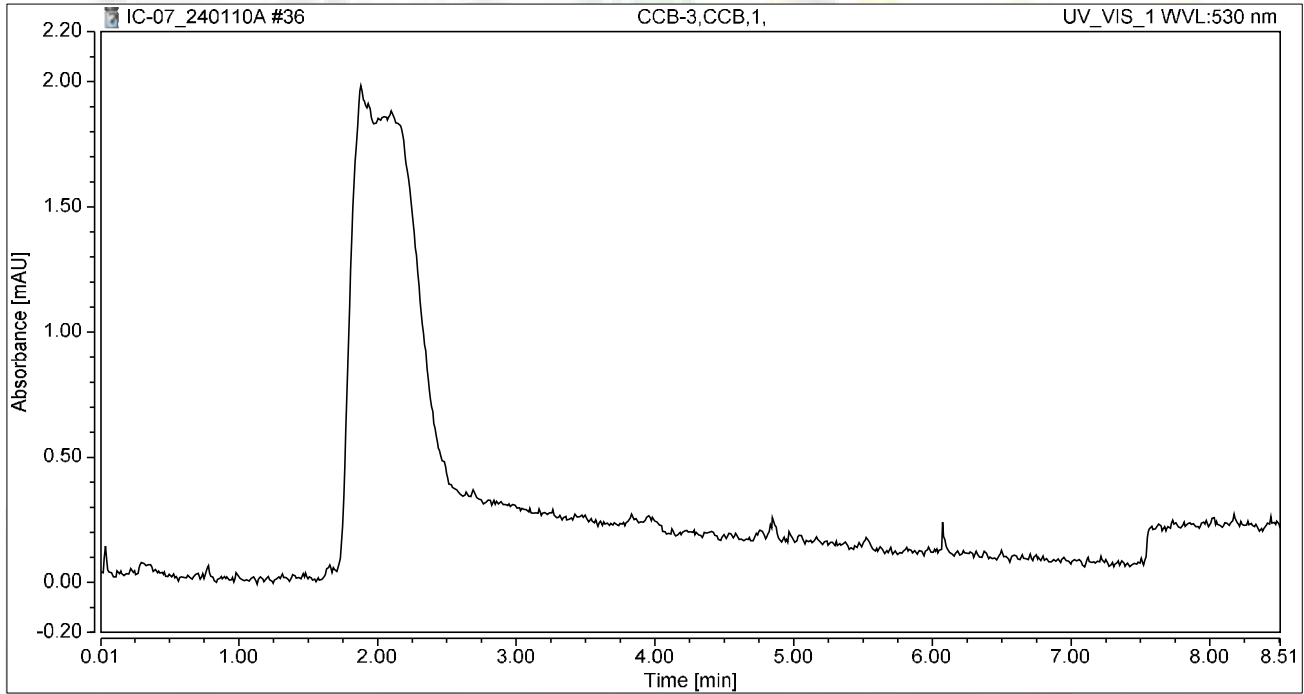
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.047	6.817	100.00	100.00	5.0337
Total:			1.047	6.817	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:44	Sample Weight:	1.0000

Chromatogram



Integration Results

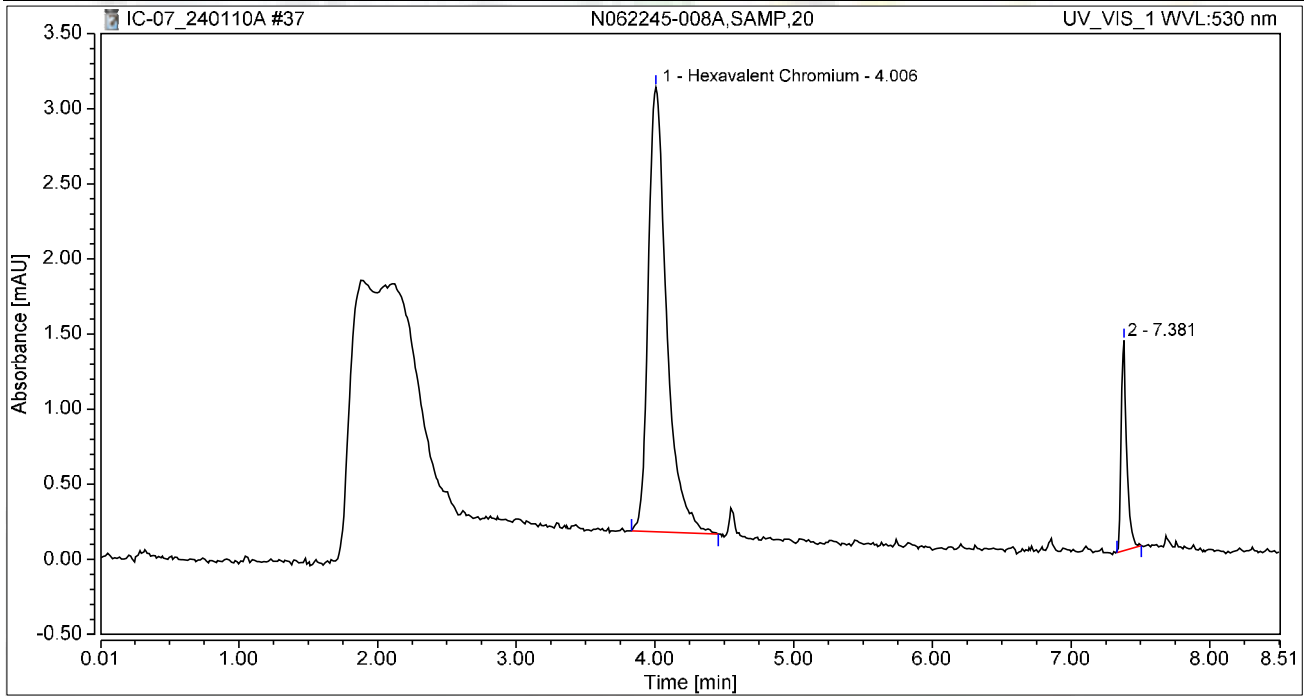
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-008A,SAMP,20	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 18:53	Sample Weight:	1.0000

Chromatogram



Integration Results

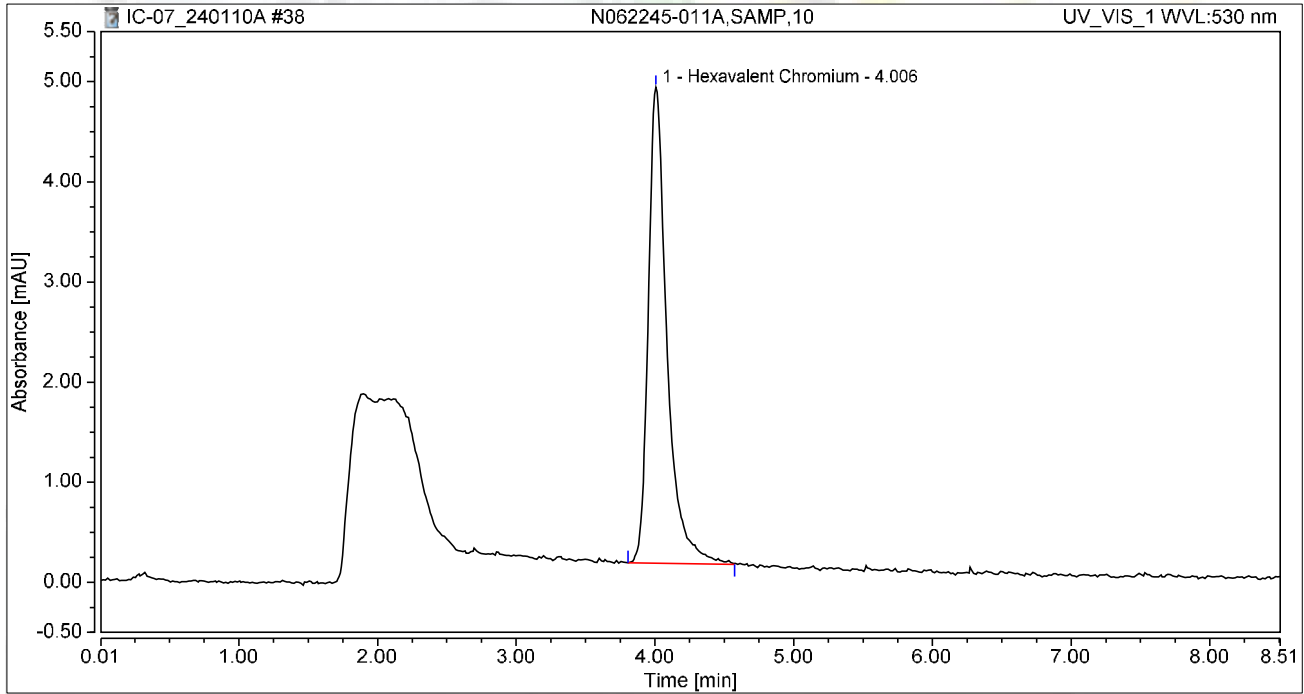
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.455	2.960	87.43	67.91	2.1876
2		7.381	0.065	1.399	12.57	32.09	n.a.
Total:			0.521	4.359	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-011A,SAMP,10	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:03	Sample Weight:	1.0000

Chromatogram



Integration Results

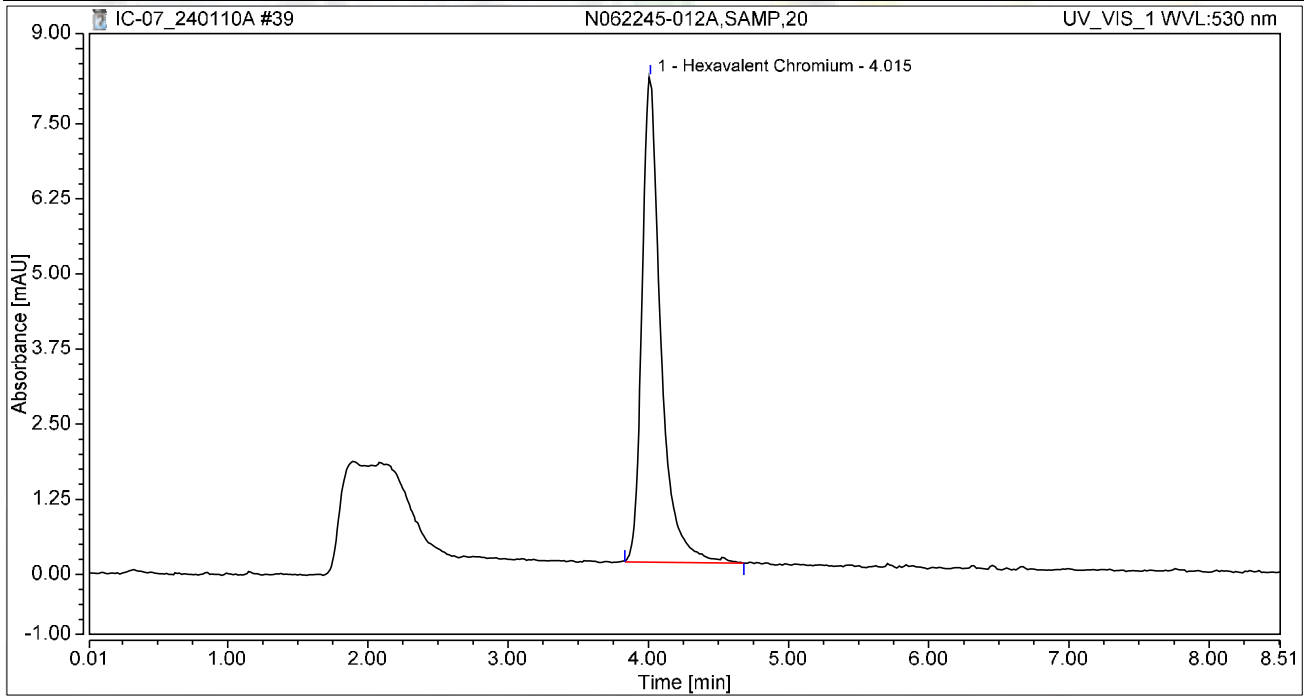
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.743	4.751	100.00	100.00	3.5695
Total:			0.743	4.751	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-012A,SAMP,20	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:12	Sample Weight:	1.0000

Chromatogram



Integration Results

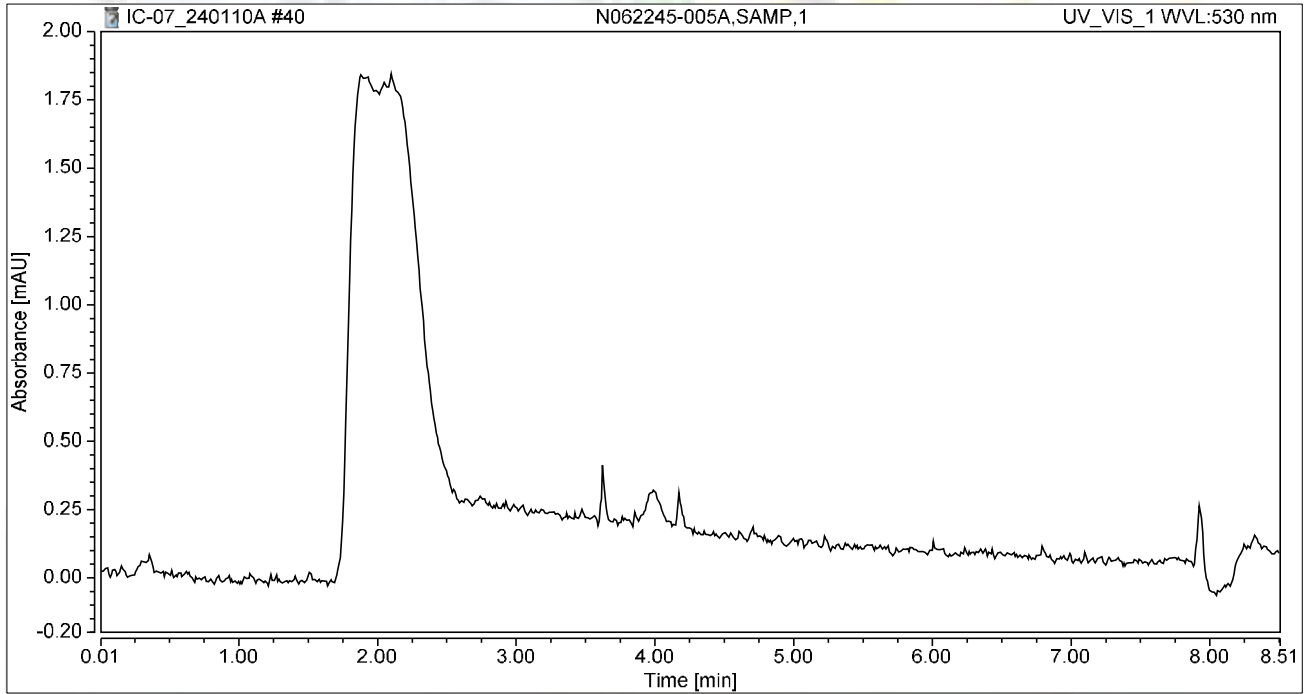
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.261	8.076	100.00	100.00	6.0596
Total:			1.261	8.076	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:22	Sample Weight:	1.0000

Chromatogram



Integration Results

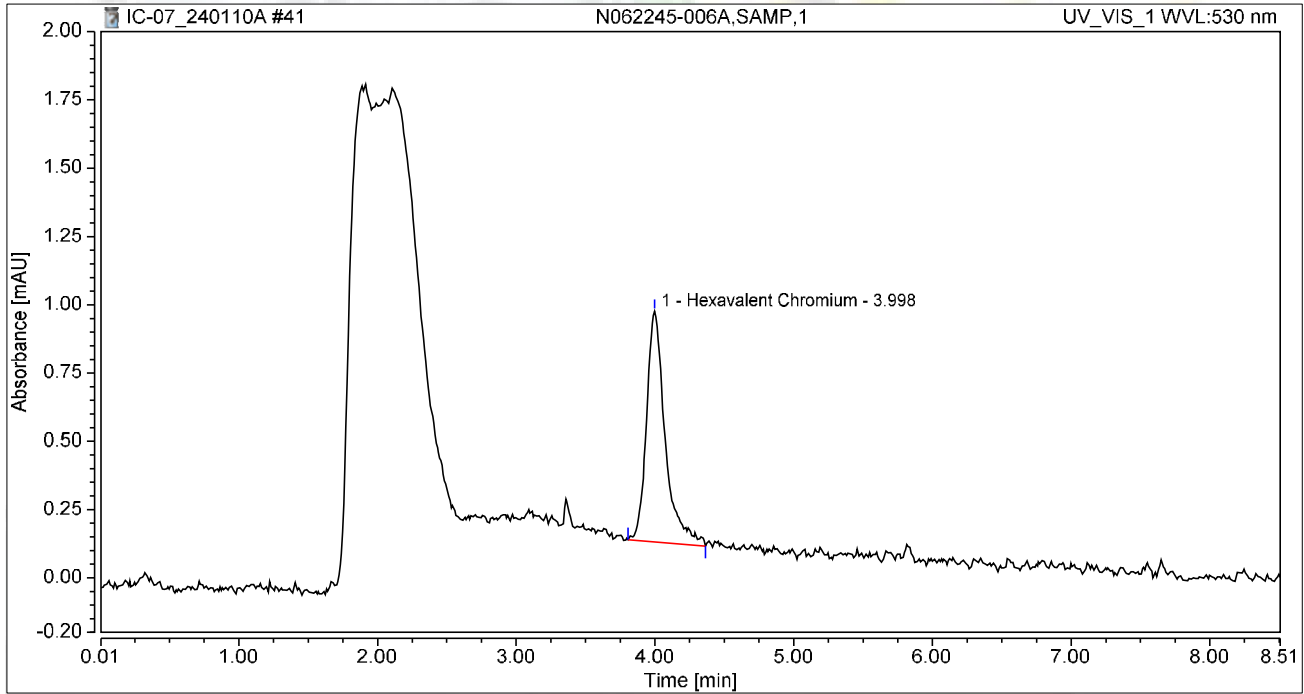
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:31	Sample Weight:	1.0000

Chromatogram



Integration Results

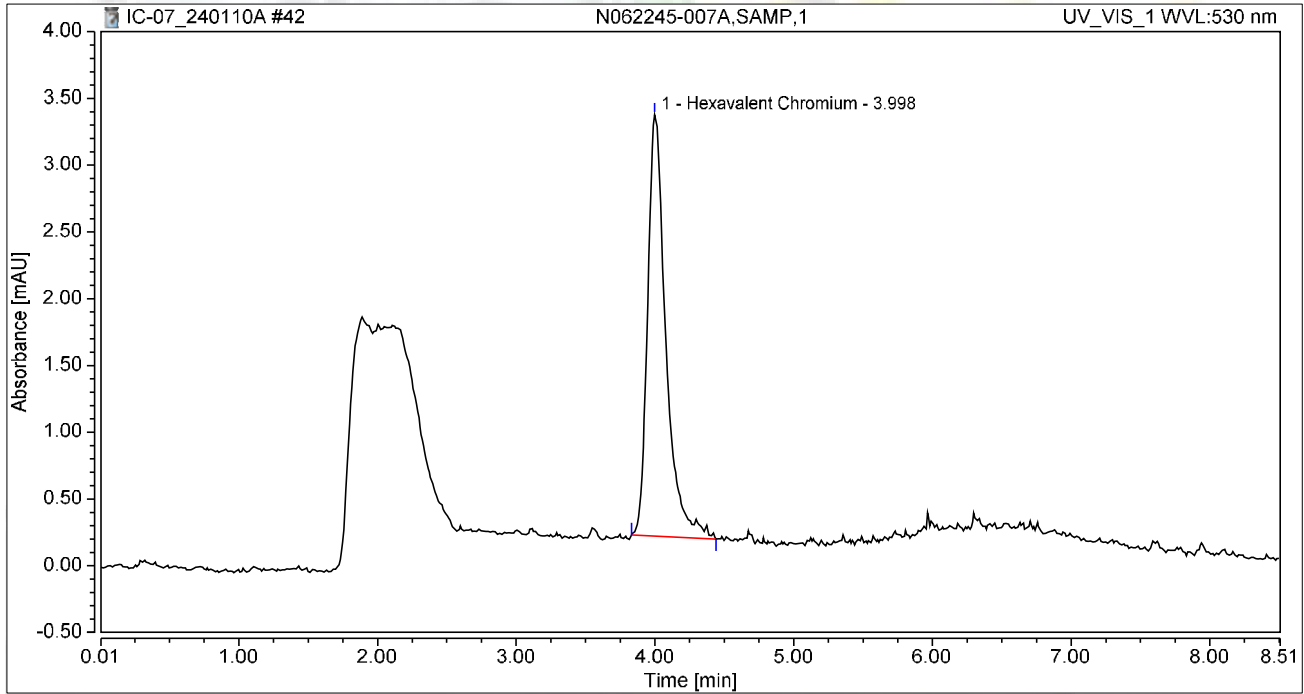
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.132	0.845	100.00	100.00	0.6328
Total:			0.132	0.845	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:40	Sample Weight:	1.0000

Chromatogram



Integration Results

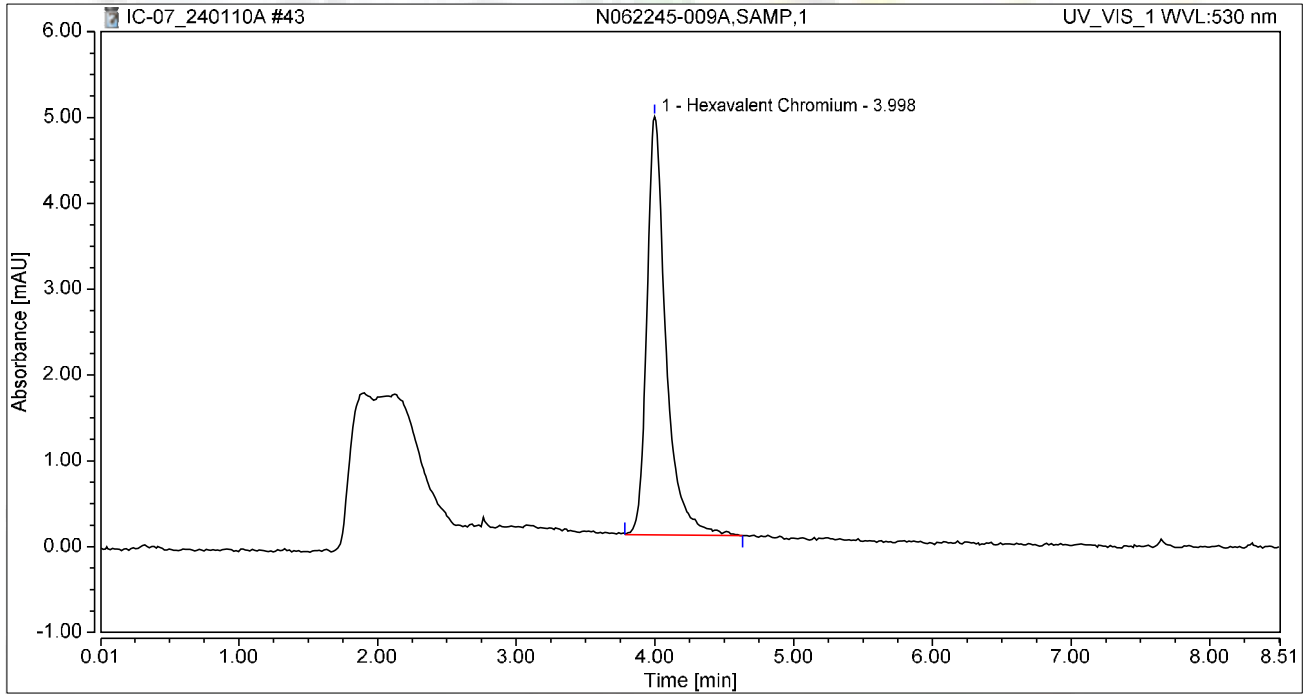
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.480	3.155	100.00	100.00	2.3085
Total:			0.480	3.155	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:50	Sample Weight:	1.0000

Chromatogram



Integration Results

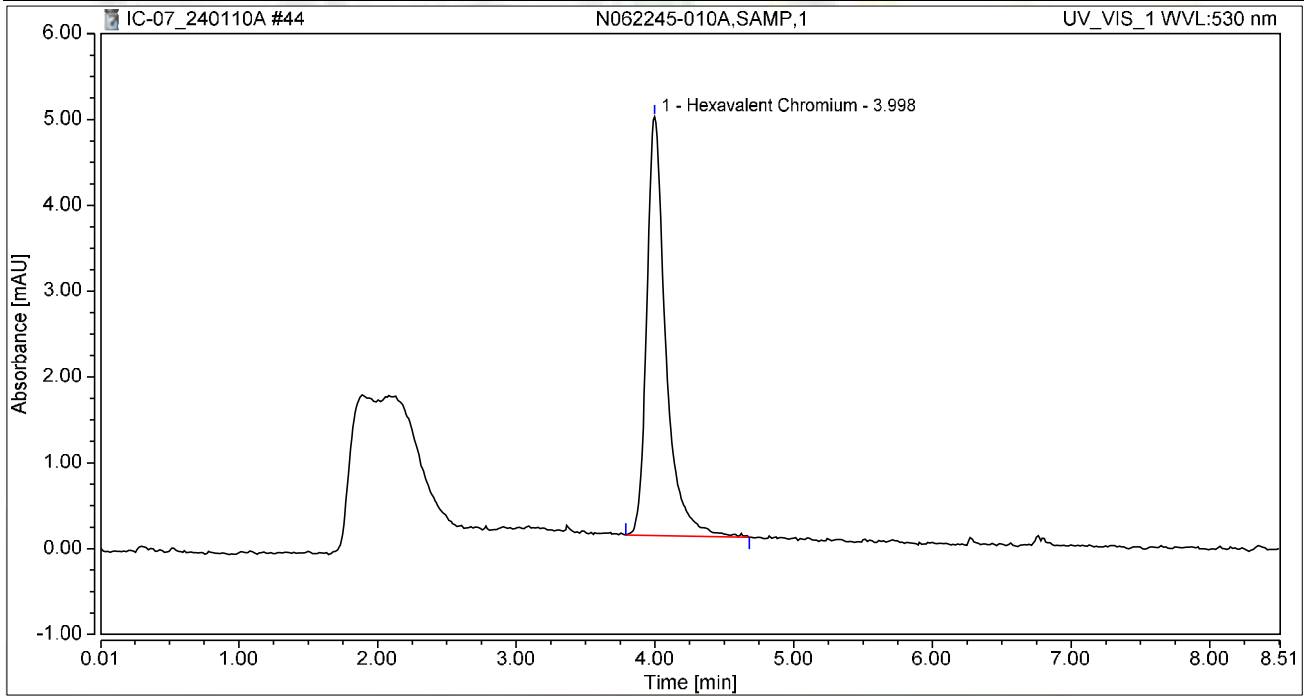
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.776	4.872	100.00	100.00	3.7292
Total:			0.776	4.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 19:59	Sample Weight:	1.0000

Chromatogram



Integration Results

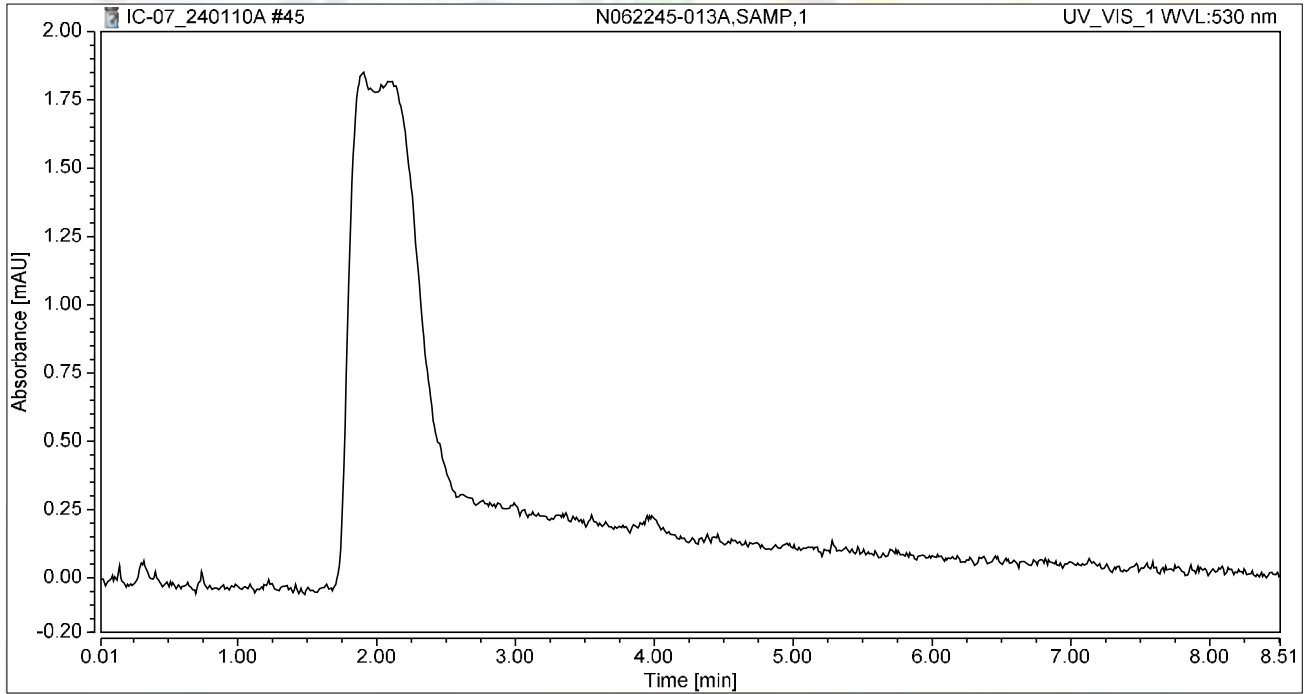
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.776	4.878	100.00	100.00	3.7275
Total:			0.776	4.878	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062245-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 20:09	Sample Weight:	1.0000

Chromatogram



Integration Results

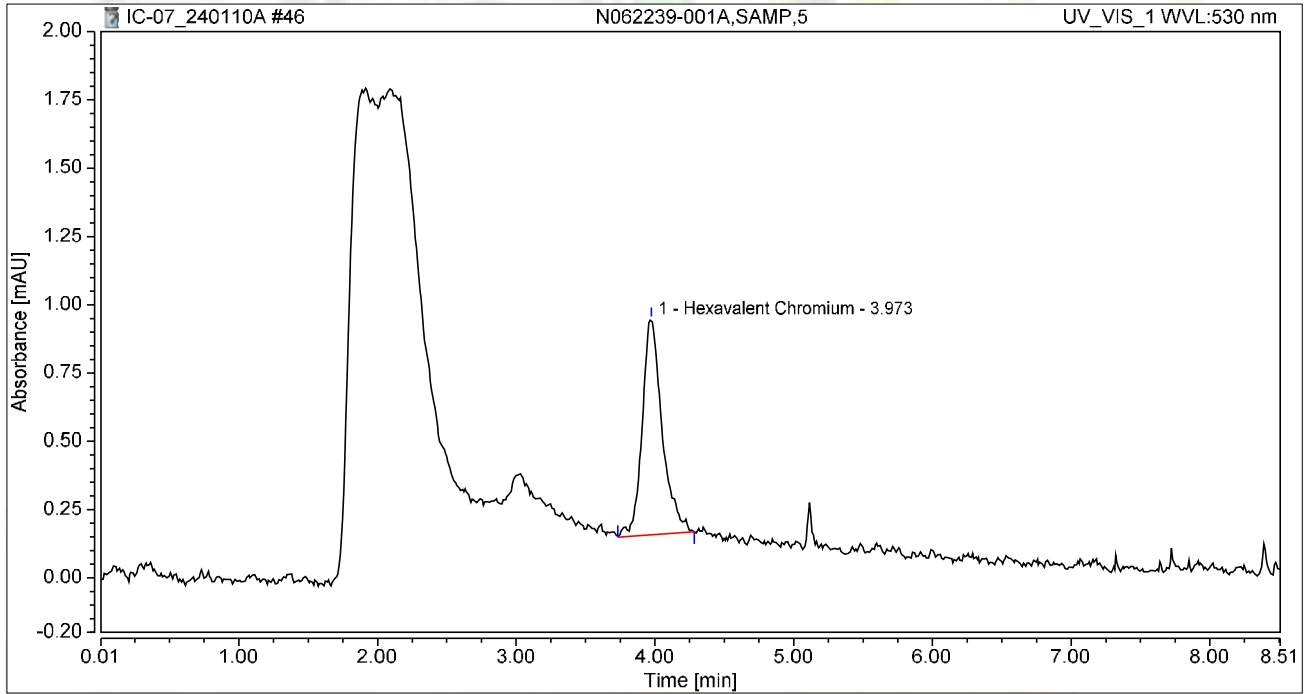
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062239-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

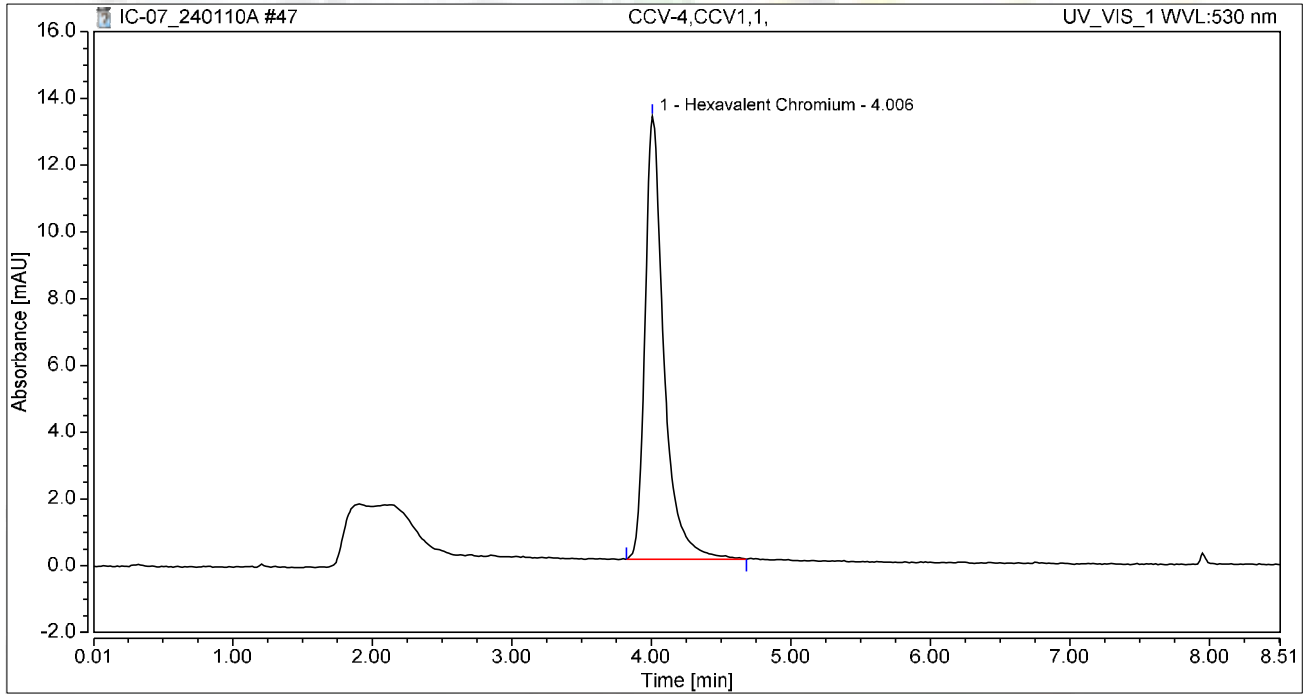
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.132	0.789	100.00	100.00	0.6335
Total:			0.132	0.789	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 20:28	Sample Weight:	1.0000

Chromatogram



Integration Results

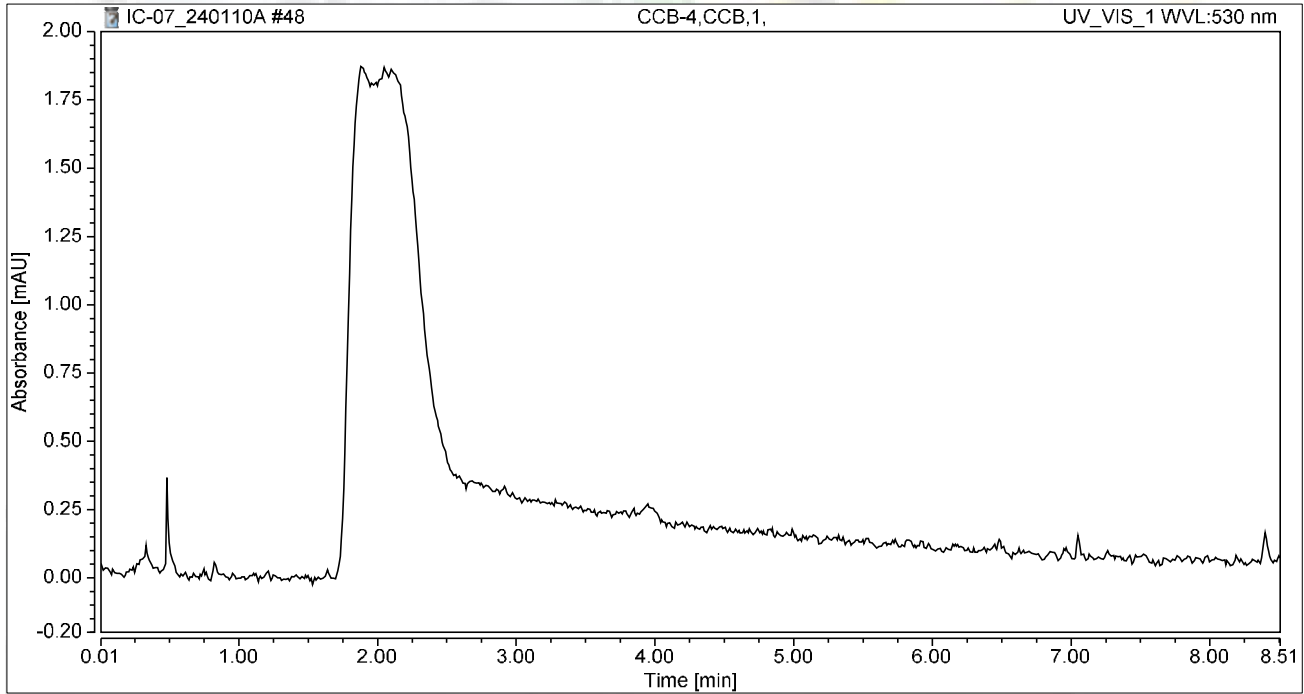
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.085	13.274	100.00	100.00	10.0216
Total:			2.085	13.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

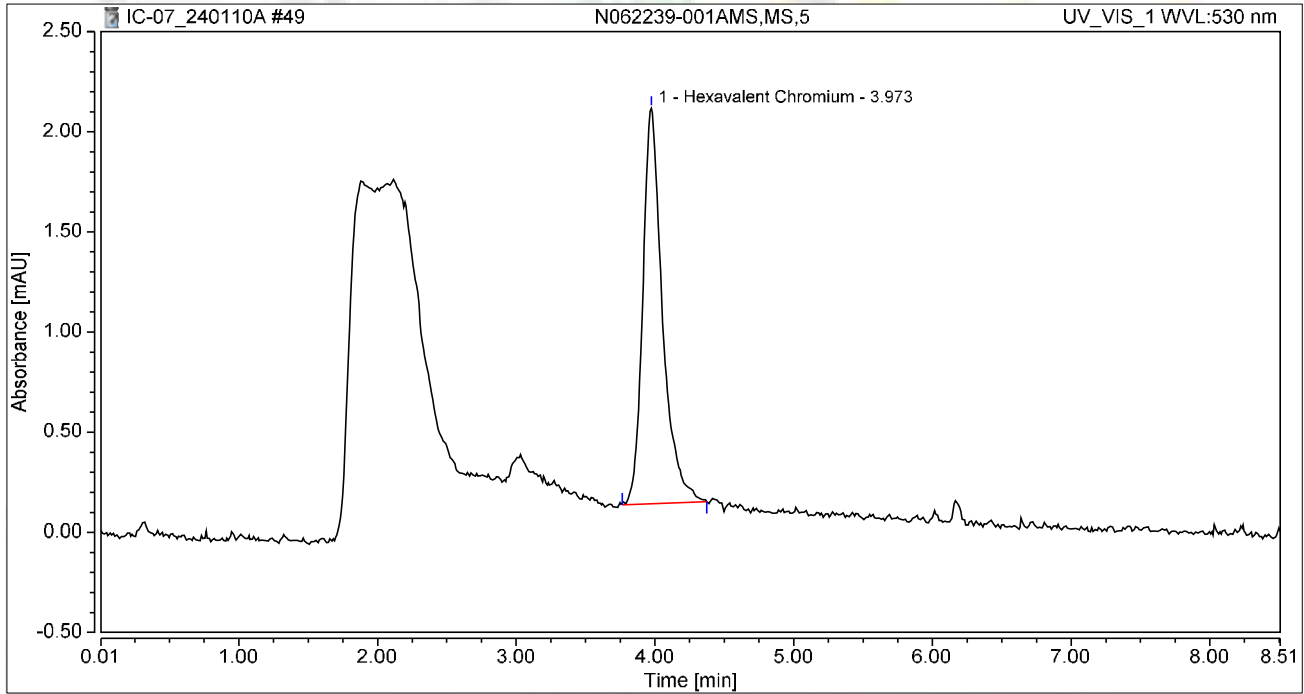
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062239-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 20:47	Sample Weight:	1.0000

Chromatogram



Integration Results

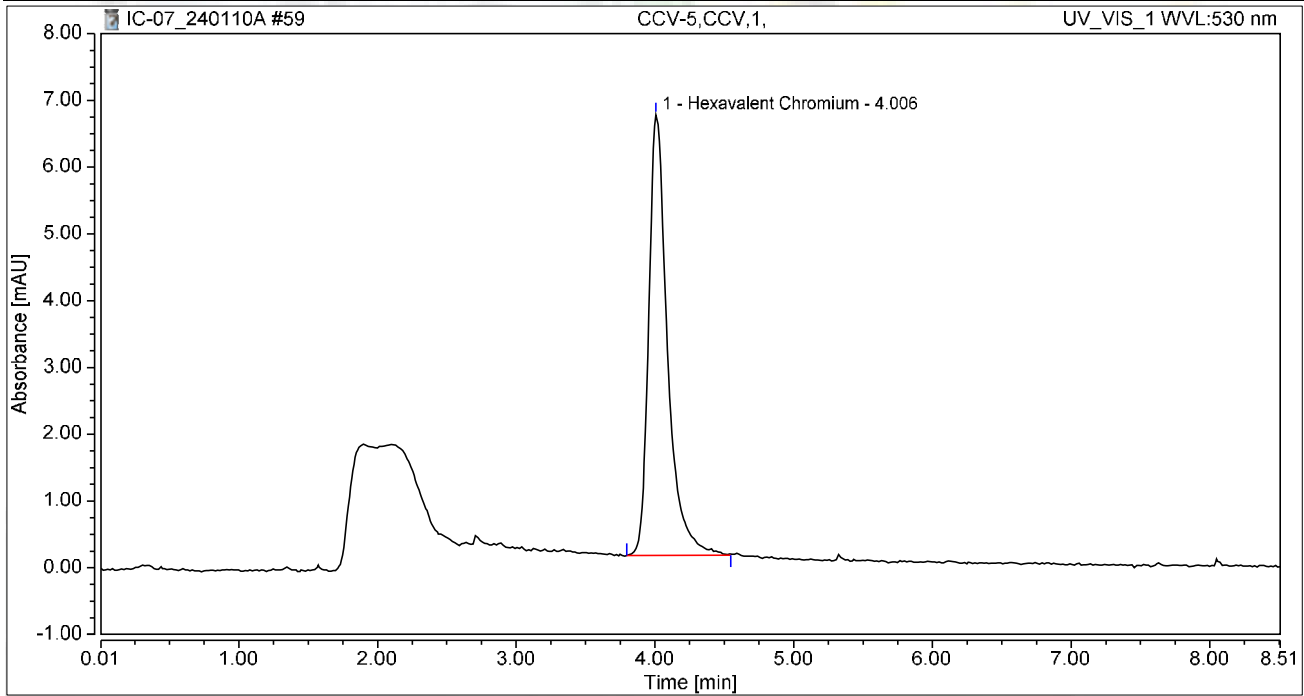
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.325	1.976	100.00	100.00	1.5627
Total:			0.325	1.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 22:21	Sample Weight:	1.0000

Chromatogram



Integration Results

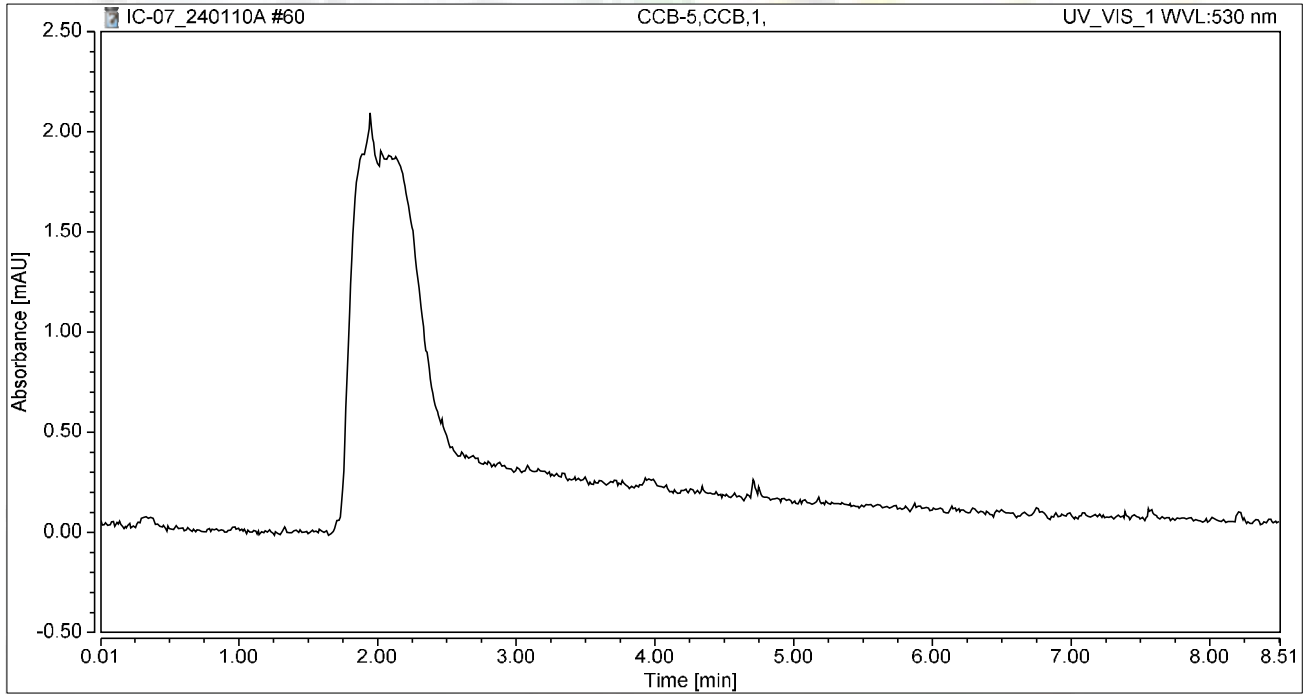
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.037	6.600	100.00	100.00	4.9817
Total:			1.037	6.600	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 22:31	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

jrb 1/18/2024

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
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METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105920
 ASSET #: N062239

Instrument ID: ICP-03
 Analyst: DBJ

Method: DISSOLVED
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/10/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 01232024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062239-001B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.13153 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 131.53$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 130$$

Reviewed by:

d/Recha 1/28/2024

% RSD SUMMARY



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RSD SUMMARY: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	5.1	15	PASS
Standard1	ICAL	1	Fe	0.02	2.95	15	PASS
Standard2	ICAL	1	Fe	0.05	0.71	15	PASS
Standard3	ICAL	1	Fe	2	0.19	15	PASS
Standard4	ICAL	1	Fe	5	0.09	15	PASS
Standard5	ICAL	1	Fe	7.5	0.09	15	PASS
Standard6	ICAL	1	Fe	10	0.07	15	PASS
Standard7	ICAL	1	Fe	20	0.15	15	PASS
ICV	ICV	1	Fe	10.03	0.53	15	PASS
ICB	ICB	1	Fe	0	38.64	15	<PQL
LLICV1	CCV1	1	Fe	0.02	1.35	20	PASS
ICSA1	ICSA	1	Fe	184.27	0.09	15	PASS
ICSAB1	ICSAB	1	Fe	165.05	0.08	15	PASS
RINSE	RINSE	1	Fe	0.01	2.53	15	PASS
MB-105920	MBLK	1	Fe	0	83.42	15	<PQL
LCS-105920	LCS	1	Fe	0.11	0.32	15	PASS
N062239-001B	SAMP	1	Fe	0.13	0.92	15	PASS
N062241-001C	SAMP	1	Fe	0.03	1.84	15	PASS
N062241-002C	SAMP	1	Fe	0.01	10.11	15	PASS
N062241-003C	SAMP	1	Fe	0.02	2.79	15	PASS
N062241-004C	SAMP	1	Fe	0.02	5.3	15	PASS
N062241-006C	SAMP	1	Fe	0.25	0.64	15	PASS
N062241-007C	SAMP	1	Fe	0.04	1.11	15	PASS
CCV1	CCV	1	Fe	9.98	0.27	15	PASS
CCB1	CCB	1	Fe	0	28.87	15	<PQL
N062241-008C	SAMP	1	Fe	0.05	0.33	15	PASS
N062241-009C	SAMP	1	Fe	0.04	2.46	15	PASS
N062241-009C	SAMP	5	Fe	0.01	4.75	15	PASS
N062241-009C-PS	PS	1	Fe	0.12	0.55	15	PASS
N062241-009CMS	MS	1	Fe	0.12	0.8	15	PASS
N062241-009CMSD	MSD	1	Fe	0.12	0.96	15	PASS
N062242-001B	SAMP	1	Fe	0.02	4.04	15	PASS
N062242-002B	SAMP	1	Fe	0.02	2.37	15	PASS
N062242-003B	SAMP	1	Fe	0.02	1.32	15	PASS
N062242-004B	SAMP	1	Fe	0.01	3.16	15	PASS
CCV2	CCV	1	Fe	10.04	0.14	15	PASS
CCB2	CCB	1	Fe	0	27.57	15	<PQL
N062243-002E	SAMP	1	Fe	0.02	2.21	15	PASS
N062243-003E	SAMP	1	Fe	0.01	1.99	15	PASS
N062244-003D	SAMP	1	Fe	0.04	1.43	15	PASS
CCV3	CCV	1	Fe	10.04	0.21	15	PASS
CCB3	CCB	1	Fe	0	149.6	15	<PQL

RSD SUMMARY: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA2	ICSA	1	Fe	184.21	0.1	15	PASS
ICSAB2	ICSAB	1	Fe	165.49	0.02	15	PASS
RINSE	RINSE	1	Fe	0.06	49.39	15	NR!
CCV4	CCV	1	Fe	10.09	0.25	15	PASS
CCB4	CCB	1	Fe	0	81.07	15	<PQL
CCV5	CCV	1	Fe	10.85	0.14	15	PASS
CCB5	CCB	1	Fe	0	45.73	15	<PQL
ICSA3	ICSA	1	Fe	199.68	0.21	15	PASS
ICSAB3	ICSAB	1	Fe	177	0.47	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240110A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/10/2024	12:36:02 PM
2	Standard1	ICAL	1	01/10/2024	12:40:14 PM
3	Standard2	ICAL	1	01/10/2024	12:44:27 PM
4	Standard3	ICAL	1	01/10/2024	12:49:11 PM
5	Standard4	ICAL	1	01/10/2024	12:52:56 PM
6	Standard5	ICAL	1	01/10/2024	12:56:41 PM
7	Standard6	ICAL	1	01/10/2024	01:00:24 PM
8	Standard7	ICAL	1	01/10/2024	01:04:05 PM
310	ICV	ICV	1	01/10/2024	01:13:01 PM
1	ICB	ICB	1	01/10/2024	01:16:52 PM
2	LLICV1	CCV1	1	01/10/2024	01:21:06 PM
9	ICSA1	ICSA	1	01/10/2024	01:25:50 PM
10	ICSAB1	ICSAB	1	01/10/2024	01:31:32 PM
299	RINSE	RINSE	1	01/10/2024	01:45:34 PM
11	MB-105920	MBLK	1	01/10/2024	01:50:24 PM
12	LCS-105920	LCS	1	01/10/2024	01:54:38 PM
13	N062239-001B	SAMP	1	01/10/2024	01:58:53 PM
14	N062241-001C	SAMP	1	01/10/2024	02:04:41 PM
15	N062241-002C	SAMP	1	01/10/2024	02:10:37 PM
16	N062241-003C	SAMP	1	01/10/2024	02:16:34 PM
17	N062241-004C	SAMP	1	01/10/2024	02:22:23 PM
18	N062241-006C	SAMP	1	01/10/2024	02:27:11 PM
19	N062241-007C	SAMP	1	01/10/2024	02:33:01 PM
7	CCV1	CCV	1	01/10/2024	02:38:59 PM
1	CCB1	CCB	1	01/10/2024	02:42:45 PM
20	N062241-008C	SAMP	1	01/10/2024	02:46:59 PM
21	N062241-009C	SAMP	1	01/10/2024	02:52:58 PM
22	N062241-009C	SAMP	5	01/10/2024	02:57:15 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
23	N062241-009C-PS	PS	1	01/10/2024	03:01:30 PM
24	N062241-009CMS	MS	1	01/10/2024	03:05:47 PM
25	N062241-009CMSD	MSD	1	01/10/2024	03:10:02 PM
26	N062242-001B	SAMP	1	01/10/2024	03:14:18 PM
27	N062242-002B	SAMP	1	01/10/2024	03:19:03 PM
28	N062242-003B	SAMP	1	01/10/2024	03:23:49 PM
29	N062242-004B	SAMP	1	01/10/2024	03:28:34 PM
7	CCV2	CCV	1	01/10/2024	03:33:22 PM
1	CCB2	CCB	1	01/10/2024	03:37:07 PM
30	N062243-002E	SAMP	1	01/10/2024	03:41:21 PM
31	N062243-003E	SAMP	1	01/10/2024	03:47:11 PM
32	N062244-003D	SAMP	1	01/10/2024	03:53:01 PM
35	MB-105921	MBLK	1	01/10/2024	03:58:52 PM
36	LCS-105921	LCS	1	01/10/2024	04:03:08 PM
37	N062238-001B	SAMP	1	01/10/2024	04:07:23 PM
38	N062238-001B	SAMP	5	01/10/2024	04:13:21 PM
39	N062238-001B-PS	PS	1	01/10/2024	04:18:08 PM
40	N062238-001B-MS	MS	1	01/10/2024	04:24:07 PM
41	N062238-001B-MSD	MSD	1	01/10/2024	04:30:04 PM
7	CCV3	CCV	1	01/10/2024	04:35:31 PM
1	CCB3	CCB	1	01/10/2024	04:39:15 PM
9	ICSA2	ICSA	1	01/10/2024	04:43:27 PM
10	ICSAB2	ICSAB	1	01/10/2024	04:49:09 PM
299	RINSE	RINSE	1	01/10/2024	04:54:52 PM
42	N062238-002B	SAMP	1	01/10/2024	05:01:46 PM
43	N062238-003B	SAMP	1	01/10/2024	05:07:14 PM
44	N062245-001D	SAMP	1	01/10/2024	05:12:42 PM
45	N062245-002D	SAMP	1	01/10/2024	05:18:34 PM
46	N062245-003D	SAMP	1	01/10/2024	05:24:25 PM
47	N062245-004D	SAMP	1	01/10/2024	05:29:48 PM
48	N062245-005D	SAMP	1	01/10/2024	05:34:34 PM
49	N062245-006D	SAMP	1	01/10/2024	05:38:50 PM
50	N062245-007D	SAMP	1	01/10/2024	05:44:39 PM
7	CCV4	CCV	1	01/10/2024	05:49:27 PM
1	CCB4	CCB	1	01/10/2024	05:53:12 PM
51	N062245-008D	SAMP	1	01/10/2024	05:57:26 PM
52	N062245-009D	SAMP	1	01/10/2024	06:03:15 PM
53	N062245-010D	SAMP	1	01/10/2024	06:09:05 PM
54	N062245-011D	SAMP	1	01/10/2024	06:14:55 PM
55	N062245-012D	SAMP	1	01/10/2024	06:20:46 PM
36	LCS-105921	LCS	1	01/10/2024	06:31:57 PM
7	CCV5	CCV	1	01/10/2024	06:36:13 PM
1	CCB5	CCB	1	01/10/2024	06:39:58 PM
9	ICSA3	ICSA	1	01/10/2024	06:44:41 PM
10	ICSAB3	ICSAB	1	01/10/2024	06:50:25 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:06:11 AM

Reviewed/ Date: d/Rocha 1/28/2024

Page: 1 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105920 Prep Code:3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-04-34

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105920	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105920	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062239-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:06:11 AM

Reviewed/ Date: d/Rocha 1/28/2024

Page: 2 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105920 Prep Code: 3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-04-34

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062242-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-002E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062244-003D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240110A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/10/2024	12:36:02 PM	Fe	273.952	127	0.00	mg/L	
Standard1	01/10/2024	12:40:14 PM	Fe	273.952	280	0.02	mg/L	
Standard2	01/10/2024	12:44:27 PM	Fe	273.952	763	0.05	mg/L	
Standard3	01/10/2024	12:49:11 PM	Fe	273.952	26477	2.0	mg/L	
Standard4	01/10/2024	12:52:56 PM	Fe	273.952	66365	5.0	mg/L	
Standard5	01/10/2024	12:56:41 PM	Fe	273.952	99771	7.5	mg/L	
Standard6	01/10/2024	01:00:24 PM	Fe	273.952	133046	10.0	mg/L	
Standard7	01/10/2024	01:04:05 PM	Fe	273.952	262310	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10031.485	20	10000	0	100	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ZZZZZZ	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	20.598	20	20.00	0	103	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9980.518	20	10000	0	99.8	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10038.489	20	10000	0	100	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10043.862	20	10000	0	100	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10084.889	20	10000	0	101	90	110				
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10849.994	20	10000	0	108	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.457	20									
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Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.390	20									
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Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.725	20									
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Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612410						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.489	20									
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Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.256	20									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1.549	20									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	480722.766	50	500000	0	96.1	80	120				
Calcium	428338.251	500	500000	0	85.7	80	120				
Iron	184268.121	20	200000	0	92.1	80	120				
Magnesium	417874.453	100	500000	0	83.6	80	120				

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA B	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612375						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	517512.017	50	500000	0	104	80	120				
Calcium	429740.937	500	500000	0	85.9	80	120				
Iron	165050.006	20	200000	0	82.5	80	120				
Magnesium	413984.691	100	500000	0	82.8	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	470664.512	50	500000	0	94.1	80	120				
Calcium	426074.668	500	500000	0	85.2	80	120				
Iron	184208.847	20	200000	0	92.1	80	120				
Magnesium	410740.796	100	500000	0	82.1	80	120				

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA B	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	506708.349	50	500000	0	101	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSAB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	428727.968	500	500000	0	85.7	80	120				
Iron	165493.459	20	200000	0	82.7	80	120				
Magnesium	410320.676	100	500000	0	82.1	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	449066.857	50	500000	0	89.8	80	120				
Calcium	474889.087	500	500000	0	95.0	80	120				
Iron	199678.162	20	200000	0	99.8	80	120				
Magnesium	443245.140	100	500000	0	88.6	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSAB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	486511.659	50	500000	0	97.3	80	120				
Calcium	467053.339	500	500000	0	93.4	80	120				
Iron	177003.854	20	200000	0	88.5	80	120				
Magnesium	439086.517	100	500000	0	87.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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INTERNAL STANDARD: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1	100.25	65-125	PASS
Standard2	ICAL	1	1	100.35	65-125	PASS
Standard3	ICAL	1	1.02	101.92	65-125	PASS
Standard4	ICAL	1	1	100.41	65-125	PASS
Standard5	ICAL	1	1	100.5	65-125	PASS
Standard6	ICAL	1	0.99	98.83	65-125	PASS
Standard7	ICAL	1	0.99	98.91	65-125	PASS
ICV	ICV	1	1.04	104.05	65-125	PASS
ICB	ICB	1	1	100.49	65-125	PASS
LLICV1	CCV1	1	1	99.86	65-125	PASS
ICSA1	ICSA	1	0.99	99.07	65-125	PASS
ICSAB1	ICSAB	1	1.01	100.66	65-125	PASS
RINSE	RINSE	1	1.12	112.44	65-125	PASS
MB-105920	MBLK	1	1.04	104.28	65-125	PASS
LCS-105920	LCS	1	1.01	100.58	65-125	PASS
N062239-001B	SAMP	1	0.73	73.37	65-125	PASS
N062241-001C	SAMP	1	0.78	77.57	65-125	PASS
N062241-002C	SAMP	1	0.7	70.42	65-125	PASS
N062241-003C	SAMP	1	0.74	74.17	65-125	PASS
N062241-004C	SAMP	1	0.73	73.2	65-125	PASS
N062241-006C	SAMP	1	0.75	74.55	65-125	PASS
N062241-007C	SAMP	1	0.77	76.8	65-125	PASS
CCV1	CCV	1	1.03	102.94	65-125	PASS
CCB1	CCB	1	1.06	105.8	65-125	PASS
N062241-008C	SAMP	1	0.74	74.46	65-125	PASS
N062241-009C	SAMP	1	0.75	74.59	65-125	PASS
N062241-009C	SAMP	5	0.92	91.8	65-125	PASS
N062241-009C-PS	PS	1	0.8	79.83	65-125	PASS
N062241-009CMS	MS	1	0.79	78.66	65-125	PASS
N062241-009CMSD	MSD	1	0.79	78.65	65-125	PASS
N062242-001B	SAMP	1	1	100.01	65-125	PASS
N062242-002B	SAMP	1	1.02	101.67	65-125	PASS
N062242-003B	SAMP	1	0.98	98.42	65-125	PASS
N062242-004B	SAMP	1	0.98	97.82	65-125	PASS
CCV2	CCV	1	1.04	104.36	65-125	PASS
CCB2	CCB	1	1.06	105.76	65-125	PASS
N062243-002E	SAMP	1	0.95	94.85	65-125	PASS
N062243-003E	SAMP	1	0.95	94.79	65-125	PASS
N062244-003D	SAMP	1	0.94	93.69	65-125	PASS
CCV3	CCV	1	1.09	108.79	65-125	PASS

INTERNAL STANDARD: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCB3	CCB	1	1.12	111.64	65-125	PASS
ICSA2	ICSA	1	1.1	109.67	65-125	PASS
ICSAB2	ICSAB	1	1.08	107.72	65-125	PASS
RINSE	RINSE	1	1.17	116.81	65-125	PASS
CCV4	CCV	1	1.08	107.75	65-125	PASS
CCB4	CCB	1	1.1	110.21	65-125	PASS
CCV5	CCV	1	1.17	116.58	65-125	PASS
CCB5	CCB	1	1.18	118.22	65-125	PASS
ICSA3	ICSA	1	1.14	114.18	65-125	PASS
ICSAB3	ICSAB	1	1.12	111.8	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062239
Test Method: EPA 6010B
Analysis Date: 1/10/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105920

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062241-009C DT 5x	Iron	Fe	µg/L	0	NA	34.52978	100.00%	10

Reviewed by:

d/Rocha 1/28/2024

Note: NA - Not Applicable

01/25/24 18:55

DT_EPA 6010B_N062239_105920

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N062241-009C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ZZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/10/2024	SeqNo: 5612390							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	122.154	20	100.0	34.53	87.6	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucão / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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 ORELAP/NELAP Cert 4046

EPA 6010B Total



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105960
 ASSET #: N062239

Instrument ID: ICP-03
 Analyst: DBJ

Method: EPA 6010B / 200.7 TOTAL EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/12/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer KDG 01232024

Date: _____
 Date: _____

SAMPLE CALCULATION



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"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062239-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.18728 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 187.28$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{190}$$

Reviewed by:

d/rocha 1/28/2024

% RSD SUMMARY



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RSD SUMMARY: 240112B

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	1.14	15	PASS
Standard1	ICAL	1	Fe	0.02	1.98	15	PASS
Standard2	ICAL	1	Fe	0.05	1.24	15	PASS
Standard3	ICAL	1	Fe	2	0.16	15	PASS
Standard4	ICAL	1	Fe	5	0.09	15	PASS
Standard5	ICAL	1	Fe	7.5	0.15	15	PASS
Standard6	ICAL	1	Fe	10	0.1	15	PASS
Standard7	ICAL	1	Fe	20	0.03	15	PASS
ICV	ICV	1	Fe	10	0.1	15	PASS
ICB	ICB	1	Fe	-0.01	6.51	15	PASS
LLICV1	CCV1	1	Fe	0.02	0.66	20	PASS
LLICV1	CCV1	1	Fe	0.02	6.95	20	PASS
ICSA1	ICSA	1	Fe	179.2	0.13	15	PASS
ICSAB1	ICSAB	1	Fe	180.25	0.05	15	PASS
RINSE	RINSE	1	Fe	0.02	42.15	15	NR!
CCV1	CCV	1	Fe	10.22	0.12	15	PASS
CCB1	CCB	1	Fe	-0.02	7.13	15	PASS
CCV2	CCV	1	Fe	10.27	0.12	15	PASS
CCB2	CCB	1	Fe	-0.02	1.95	15	PASS
MB-105960	MBLK	1	Fe	-0.02	8.27	15	PASS
LCS-105960	LCS	1	Fe	0.11	2	15	PASS
N062239-001C	SAMP	1	Fe	0.19	0.55	15	PASS
N062239-001C	SAMP	5	Fe	0.03	4.66	15	PASS
N062239-001C-PS	PS	1	Fe	0.3	1.15	15	PASS
N062239-001C-MS	MS	1	Fe	0.29	0.82	15	PASS
CCV3	CCV	1	Fe	10.63	0.1	15	PASS
CCB3	CCB	1	Fe	-0.02	0.12	15	PASS
ICSA2	ICSA	1	Fe	188.1	0.11	15	PASS
ICSAB2	ICSAB	1	Fe	189.34	0.06	15	PASS
RINSE	RINSE	1	Fe	0	317.79	15	<PQL
N062239-001C-MSD	MSD	1	Fe	0.31	1.42	15	PASS
CCV4	CCV	1	Fe	10.52	0.74	15	PASS
CCB4	CCB	1	Fe	-0.03	2.72	15	PASS
CCV5	CCV	1	Fe	10.65	0.07	15	PASS
CCB5	CCB	1	Fe	-0.03	2.05	15	PASS
ICSA3	ICSA	1	Fe	187.89	0.17	15	PASS
ICSAB3	ICSAB	1	Fe	188.95	0.08	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240112B

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/12/2024	02:21:12 PM
2	Standard1	ICAL	1	01/12/2024	02:25:25 PM
3	Standard2	ICAL	1	01/12/2024	02:29:40 PM
4	Standard3	ICAL	1	01/12/2024	02:33:55 PM
5	Standard4	ICAL	1	01/12/2024	02:37:43 PM
6	Standard5	ICAL	1	01/12/2024	02:42:32 PM
7	Standard6	ICAL	1	01/12/2024	02:46:49 PM
8	Standard7	ICAL	1	01/12/2024	02:51:06 PM
310	ICV	ICV	1	01/12/2024	02:55:25 PM
1	ICB	ICB	1	01/12/2024	02:59:48 PM
2	LLICV1	CCV1	1	01/12/2024	03:04:02 PM
2	LLICV1	CCV1	1	01/12/2024	03:16:31 PM
9	ICSA1	ICSA	1	01/12/2024	03:20:45 PM
10	ICSAB1	ICSAB	1	01/12/2024	03:26:03 PM
299	RINSE	RINSE	1	01/12/2024	03:31:22 PM
96	MB-105959	MBLK	1	01/12/2024	03:35:41 PM
97	LCS-105959	LCS	1	01/12/2024	03:44:55 PM
98	N062274-001B	SAMP	1	01/12/2024	03:50:12 PM
99	N062274-001B	SAMP	5	01/12/2024	03:55:42 PM
100	N062274-001B-PS	PS	1	01/12/2024	04:00:00 PM
101	N062274-001B-MS	MS	1	01/12/2024	04:05:30 PM
102	N062274-001B-MSD	MSD	1	01/12/2024	04:11:00 PM
103	N062274-002B	SAMP	1	01/12/2024	04:16:30 PM
104	N062274-003B	SAMP	1	01/12/2024	04:21:59 PM
7	CCV1	CCV	1	01/12/2024	04:27:59 PM
1	CCB1	CCB	1	01/12/2024	04:32:17 PM
105	N062278-002D	SAMP	1	01/12/2024	04:36:31 PM
106	N062278-003D	SAMP	1	01/12/2024	04:42:32 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
107	N062278-004D	SAMP	1	01/12/2024	04:48:32 PM
108	N062278-005D	SAMP	1	01/12/2024	04:54:33 PM
109	N062278-007D	SAMP	1	01/12/2024	05:00:33 PM
110	N062278-008D	SAMP	1	01/12/2024	05:05:25 PM
111	N062278-009D	SAMP	1	01/12/2024	05:11:25 PM
112	N062278-010D	SAMP	1	01/12/2024	05:17:25 PM
113	N062278-011D	SAMP	1	01/12/2024	05:21:44 PM
114	N062278-012D	SAMP	1	01/12/2024	05:27:44 PM
7	CCV2	CCV	1	01/12/2024	05:32:36 PM
1	CCB2	CCB	1	01/12/2024	05:36:53 PM
115	N062279-005D	SAMP	1	01/12/2024	05:41:07 PM
116	N062279-006D	SAMP	1	01/12/2024	05:46:59 PM
117	N062279-008D	SAMP	1	01/12/2024	05:52:52 PM
118	N062279-023D	SAMP	1	01/12/2024	05:58:44 PM
119	MB-105960	MBLK	1	01/12/2024	06:04:57 PM
120	LCS-105960	LCS	1	01/12/2024	06:09:13 PM
121	N062239-001C	SAMP	1	01/12/2024	06:14:30 PM
122	N062239-001C	SAMP	5	01/12/2024	06:20:00 PM
123	N062239-001C-PS	PS	1	01/12/2024	06:24:19 PM
124	N062239-001C-MS	MS	1	01/12/2024	06:29:48 PM
7	CCV3	CCV	1	01/12/2024	06:35:18 PM
1	CCB3	CCB	1	01/12/2024	06:39:36 PM
9	ICSA2	ICSA	1	01/12/2024	06:43:50 PM
10	ICSAB2	ICSAB	1	01/12/2024	06:49:10 PM
300	RINSE	RINSE	1	01/12/2024	06:54:28 PM
125	N062239-001C-MSD	MSD	1	01/12/2024	06:58:48 PM
131	MB-105994	MBLK	1	01/12/2024	07:04:18 PM
132	LCS-105994	LCS	1	01/12/2024	07:08:34 PM
133	N062275-001B	SAMP	1	01/12/2024	07:13:52 PM
134	N062275-001B	SAMP	5	01/12/2024	07:19:23 PM
135	N062275-001B	SAMP	25	01/12/2024	07:25:14 PM
136	N062275-001B-PS	PS	5	01/12/2024	07:29:02 PM
137	N062275-001B-MS	MS	5	01/12/2024	07:34:26 PM
138	N062275-001B-MSD	MSD	5	01/12/2024	07:39:51 PM
7	CCV4	CCV	1	01/12/2024	07:55:25 PM
1	CCB4	CCB	1	01/12/2024	07:59:00 PM
139	N062275-002B	SAMP	10	01/12/2024	08:03:13 PM
131	MB-105994	MBLK	1	01/12/2024	08:08:32 PM
7	CCV5	CCV	1	01/12/2024	08:12:48 PM
1	CCB5	CCB	1	01/12/2024	08:17:05 PM
9	ICSA3	ICSA	1	01/12/2024	08:21:19 PM
10	ICSAB3	ICSAB	1	01/12/2024	08:26:38 PM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/10/2024 3:00:00 PM

Prep End Date: 1/10/2024 7:00:00 PM

Prep Batch 105960 Prep Code:3010_W

Reviewed/ Date: d/Recha 1/28/2024

Page: 1 of 1

Initials/ Date: for

Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
mL / mL 95 DB-02-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105960	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105960	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062239-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001C-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001C-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



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INITIAL CALIBRATION SUMMARY: 240112B

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/12/2024	02:21:12 PM	Fe	273.952	958	0.00	mg/L	
Standard1	01/12/2024	02:25:25 PM	Fe	273.952	370	0.02	mg/L	
Standard2	01/12/2024	02:29:40 PM	Fe	273.952	908	0.05	mg/L	
Standard3	01/12/2024	02:33:55 PM	Fe	273.952	33532	2.0	mg/L	
Standard4	01/12/2024	02:37:43 PM	Fe	273.952	84532	5.0	mg/L	
Standard5	01/12/2024	02:42:32 PM	Fe	273.952	126424	7.5	mg/L	
Standard6	01/12/2024	02:46:49 PM	Fe	273.952	168834	10.0	mg/L	
Standard7	01/12/2024	02:51:06 PM	Fe	273.952	336041	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10000.891	20	10000	0	100	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ZZZZZZ	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	20.261	20	20.00	0	101	80	120				
------	--------	----	-------	---	-----	----	-----	--	--	--	--

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10216.092	20	10000	0	102	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10272.424	20	10000	0	103	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10627.827	20	10000	0	106	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10521.416	20	10000	0	105	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCV	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10647.471	20	10000	0	106	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -6.601716 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -15.195617 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -17.648141 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -21.699533 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620179						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -26.902547 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: CCB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620183						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	-24.882919	20									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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NEVADA
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSA	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	541280.791	50	500000	0	108	80	120				
Calcium	452830.448	500	500000	0	90.6	80	120				
Iron	179196.627	20	200000	0	89.6	80	120				
Magnesium	476649.660	100	500000	0	95.3	80	120				

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSA B	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	538525.762	50	500000	0	108	80	120				
Calcium	455539.889	500	500000	0	91.1	80	120				
Iron	180253.291	20	200000	0	90.1	80	120				
Magnesium	476302.600	100	500000	0	95.3	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSA	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620167						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	515954.641	50	500000	0	103	80	120				
Calcium	476853.668	500	500000	0	95.4	80	120				
Iron	188097.475	20	200000	0	94.0	80	120				
Magnesium	500910.448	100	500000	0	100	80	120				

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSA B	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	516791.217	50	500000	0	103	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
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- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSAB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	481691.257	500	500000	0	96.3	80	120				
Iron	189343.662	20	200000	0	94.7	80	120				
Magnesium	501805.806	100	500000	0	100	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSA	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	517509.098	50	500000	0	104	80	120				
Calcium	476610.086	500	500000	0	95.3	80	120				
Iron	187886.822	20	200000	0	93.9	80	120				
Magnesium	502435.042	100	500000	0	100	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ICSAB	Batch ID: R180339	TestNo: EPA 6010B		Analysis Date: 1/12/2024	SeqNo: 5620185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	518493.611	50	500000	0	104	80	120				
Calcium	477510.549	500	500000	0	95.5	80	120				
Iron	188952.114	20	200000	0	94.5	80	120				
Magnesium	502310.536	100	500000	0	100	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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INTERNAL STANDARD: 240112B

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1	100.19	65-125	PASS
Standard2	ICAL	1	1.02	101.63	65-125	PASS
Standard3	ICAL	1	1	99.57	65-125	PASS
Standard4	ICAL	1	0.97	97.35	65-125	PASS
Standard5	ICAL	1	0.96	96.36	65-125	PASS
Standard6	ICAL	1	0.94	94.02	65-125	PASS
Standard7	ICAL	1	0.91	91.38	65-125	PASS
ICV	ICV	1	0.94	94.48	65-125	PASS
ICB	ICB	1	0.99	98.66	65-125	PASS
LLICV1	CCV1	1	1	100.15	65-125	PASS
LLICV1	CCV1	1	1.01	100.56	65-125	PASS
ICSA1	ICSA	1	0.8	79.7	65-125	PASS
ICSAB1	ICSAB	1	0.78	78.45	65-125	PASS
RINSE	RINSE	1	1.06	105.86	65-125	PASS
CCV1	CCV	1	1.11	111.42	65-125	PASS
CCB1	CCB	1	1.15	114.66	65-125	PASS
CCV2	CCV	1	1.07	107.03	65-125	PASS
CCB2	CCB	1	1.11	110.82	65-125	PASS
MB-105960	MBLK	1	1.12	112.06	65-125	PASS
LCS-105960	LCS	1	1.09	108.49	65-125	PASS
N062239-001C	SAMP	1	0.82	81.57	65-125	PASS
N062239-001C	SAMP	5	0.97	97.5	65-125	PASS
N062239-001C-PS	PS	1	0.87	86.55	65-125	PASS
N062239-001C-MS	MS	1	0.91	90.98	65-125	PASS
CCV3	CCV	1	1.16	116.41	65-125	PASS
CCB3	CCB	1	1.2	119.88	65-125	PASS
ICSA2	ICSA	1	0.95	94.96	65-125	PASS
ICSAB2	ICSAB	1	0.94	93.55	65-125	PASS
RINSE	RINSE	1	1.57	156.91	65-125	NR!
N062239-001C-MSD	MSD	1	0.86	86.21	65-125	PASS
CCV4	CCV	1	1.09	108.65	65-125	PASS
CCB4	CCB	1	1.14	114.11	65-125	PASS
CCV5	CCV	1	1.09	108.67	65-125	PASS
CCB5	CCB	1	1.13	112.94	65-125	PASS
ICSA3	ICSA	1	1	99.75	65-125	PASS
ICSAB3	ICSAB	1	1	100.34	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062239
Test Method: EPA 6010B
Analysis Date: 1/12/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: ~~159690~~ 105960

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062239-001C DT 5x	Iron	Fe	µg/L	125.5286	NA	187.2777	32.97%	10

Reviewed by:

d/Rocha 1/28/2024

Note: NA - Not Applicable

01/25/24 20:07

DT_EPA 6010B_N062239_159690

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPBB

Sample ID: N062239-001C-PS	SampType: PS	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 180339						
Client ID: ZZZZZZ	Batch ID: 105960	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5620163							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	298.618	20	100.0	187.3	111	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
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MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucão / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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 ORELAP/NELAP Cert 4046

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105924
 ASSET #: N062239

Instrument ID: ICPMS-03
 Analyst: DBJ

Method: DISSOLVED
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/9/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 1/23/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Manganese concentration, in ug/L in the original sample as follows:

$$\text{Manganese, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062239-001B**, the concentration in ug/L is calculated as follows:


$$\text{Manganese, ug/L} = 87.9597 * 10 * (25 / 25)$$

$$\text{Manganese, ug/L} = 879.597$$

Reporting results in two significant figures,

$$\text{Manganese, ug/L} = 880$$

Reviewed by:

 2/18/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	26.121	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	13.11	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	2.853	15	PASS
Std4-10/100 ppb	ICAL	1	9.63	1.906	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.65	1.592	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.01	1.069	15	PASS
Std7-100/1000 ppb	ICAL	1	97.74	1.87	15	PASS
Std8-200/2000 ppb	ICAL	1	201.39	0.519	15	PASS
ICV	ICV	1	99.98	0.877	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLICV1	CCV1	1	0.48	2.636	20	PASS
MLCCV	CCV	1	19.92	0.91	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.75	0.695	15	PASS
CCV1	CCV	1	19.39	1.732	15	PASS
CCB1	CCB	1	0	877.706	15	<PQL
CCV2	CCV	1	19.57	0.535	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.31	0.916	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.33	0.801	15	PASS
CCV4	CCV	1	20.5	2.144	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.72	3.131	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.69	0.371	15	PASS
CCB6	CCB	1	0.04	32.329	15	<PQL
ICSA3	ICSA	1	0.02	70.201	15	<PQL
ICSAB3	ICSAB	1	20.83	0.751	15	PASS
CCV7	CCV	1	20.27	0.94	15	PASS
CCB7	CCB	1	0	1071.346	15	<PQL
CCV8	CCV	1	20.59	3.046	15	PASS
CCB8	CCB	1	0.05	25.096	15	<PQL
CCV9	CCV	1	20.61	0.796	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.79	0.346	15	PASS
MB-105924	MBLK	1	<0.000	N/A	15	<PQL
LCS-105924	LCS	1	100.37	1.589	15	PASS

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N062243-002E	SAMP	1	1.8	4.849	15	PASS
N062243-003E	SAMP	1	1.7	6.906	15	PASS
N062238-001B	SAMP	1	1238.09	1.659	15	PASS
N062238-001B	SAMP	10	131.23	1.876	15	PASS
N062238-002B	SAMP	1	1203.34	0.66	15	PASS
N062238-002B	SAMP	10	129.54	1.736	15	PASS
N062238-003B	SAMP	1	1303.54	1.942	15	PASS
N062238-003B	SAMP	10	138.48	1.495	15	PASS
CCV10	CCV	1	20.37	1.449	15	PASS
CCB10	CCB	1	0.03	77.417	15	<PQL
N062239-001B	SAMP	1	824.18	1.687	15	PASS
N062239-001B	SAMP	10	87.96	0.448	15	PASS
N062241-001C	SAMP	1	<0.000	N/A	15	<PQL
N062241-002C	SAMP	1	31.33	0.48	15	PASS
N062241-003C	SAMP	1	50.51	1.079	15	PASS
N062241-004C	SAMP	1	41.95	1.92	15	PASS
N062241-006C	SAMP	1	578.82	0.527	15	PASS
N062241-007C	SAMP	1	26.64	0.768	15	PASS
N062241-008C	SAMP	1	36.4	3.646	15	PASS
CCV11	CCV	1	20.17	1.415	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
N062241-009C	SAMP	1	36.15	1.784	15	PASS
N062241-009C	SAMP	5	7.62	0.474	15	PASS
N062241-009C-PS	PS	1	129.46	0.1	15	PASS
N062241-009CMS	MS	1	128.29	0.529	15	PASS
N062241-009CMSD	MSD	1	128.47	0.691	15	PASS
CCV12	CCV	1	20.65	2.561	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.78	1.558	15	PASS
CCV13	CCV	1	20.34	2.296	15	PASS
CCB13	CCB	1	0.02	47.889	15	<PQL
CCV14	CCV	1	20.15	1.252	15	PASS
CCB14	CCB	1	0.03	49.532	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	20.1	1.48	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109001.d	RINSE	ICAL	1	01/09/24 11:52 AM
A0109002.d	RINSE	ICAL	1	01/09/24 11:57 AM
A0109003.d	Cal Blk	IBLK	1	01/09/24 12:02 PM
A0109004.d	Std1-0.1/1 ppb	ICAL	1	01/09/24 12:06 PM
A0109005.d	Std2-0.5/5 ppb	ICAL	1	01/09/24 12:11 PM
A0109006.d	Std3-5/50 ppb	ICAL	1	01/09/24 12:16 PM
A0109007.d	Std4-10/100 ppb	ICAL	1	01/09/24 12:21 PM
A0109008.d	Std5-4.0/20/200 ppb	ICAL	1	01/09/24 12:25 PM
A0109009.d	Std6-8.0/40/400 ppb	ICAL	1	01/09/24 12:30 PM
A0109010.d	Std7-100/1000 ppb	ICAL	1	01/09/24 12:35 PM
A0109011.d	Std8-200/2000 ppb	ICAL	1	01/09/24 12:40 PM
A0109012.d	ICV	ICV	1	01/09/24 12:46 PM
A0109013.d	ICB	ICB	1	01/09/24 12:51 PM
A0109014.d	LLICV1	CCV1	1	01/09/24 12:55 PM
A0109015.d	MLCCV	CCV	1	01/09/24 1:00 PM
A0109016.d	ICSA1	ICSA	1	01/09/24 1:05 PM
A0109017.d	ICSAB1	ICSAB	1	01/09/24 1:09 PM
A0109018.d	MB-105929	MBLK	1	01/09/24 1:17 PM
A0109019.d	LCS-105929	LCS	1	01/09/24 1:21 PM
A0109020.d	N062208-001B	SAMP	1	01/09/24 1:26 PM
A0109021.d	N062208-001B	SAMP	5	01/09/24 1:31 PM
A0109022.d	N062208-001B-PS	PS	1	01/09/24 1:35 PM
A0109023.d	N062208-001B-MS	MS	1	01/09/24 1:40 PM
A0109024.d	N062208-001B-MSD	MSD	1	01/09/24 1:45 PM
A0109025.d	N062208-002B	SAMP	1	01/09/24 1:49 PM
A0109026.d	N062208-003B	SAMP	1	01/09/24 1:54 PM
A0109027.d	RINSE	ICAL	1	01/09/24 1:59 PM
A0109028.d	CCV1	CCV	1	01/09/24 2:03 PM
A0109029.d	CCB1	CCB	1	01/09/24 2:08 PM
A0109030.d	N062208-004B	SAMP	1	01/09/24 2:13 PM
A0109031.d	N062208-005B	SAMP	1	01/09/24 2:17 PM
A0109032.d	N062208-006B	SAMP	1	01/09/24 2:22 PM
A0109033.d	N062208-007B	SAMP	1	01/09/24 2:27 PM
A0109034.d	N062208-008B	SAMP	1	01/09/24 2:31 PM
A0109035.d	N062209-001D	SAMP	1	01/09/24 2:36 PM
A0109036.d	N062209-002D	SAMP	1	01/09/24 2:40 PM
A0109037.d	N062209-003D	SAMP	1	01/09/24 2:45 PM
A0109038.d	N062209-004D	SAMP	1	01/09/24 2:50 PM
A0109039.d	RINSE	ICAL	1	01/09/24 2:54 PM
A0109040.d	CCV2	CCV	1	01/09/24 2:59 PM
A0109041.d	CCB2	CCB	1	01/09/24 3:04 PM
A0109042.d	N062210-001B	SAMP	1	01/09/24 3:08 PM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109043.d	N062210-002B	SAMP	1	01/09/24 3:13 PM
A0109044.d	N062210-003B	SAMP	1	01/09/24 3:17 PM
A0109045.d	N062200-012A	SAMP	1	01/09/24 3:22 PM
A0109046.d	RINSE	ICAL	1	01/09/24 3:27 PM
A0109047.d	CCV3	CCV	1	01/09/24 3:32 PM
A0109048.d	CCB3	CCB	1	01/09/24 3:37 PM
A0109049.d	ICSA2	ICSA	1	01/09/24 3:42 PM
A0109050.d	ICSAB2	ICSAB	1	01/09/24 3:46 PM
A0109051.d	MB-105925	MBLK	1	01/09/24 3:51 PM
A0109052.d	LCS-105925	LCS	1	01/09/24 3:56 PM
A0109053.d	N062237-001A	SAMP	1	01/09/24 4:00 PM
A0109054.d	N062237-001A	SAMP	5	01/09/24 4:05 PM
A0109055.d	N062237-001A	SAMP	10	01/09/24 4:09 PM
A0109056.d	N062237-001A	SAMP	50	01/09/24 4:14 PM
A0109057.d	N062237-001A-PS	PS	1	01/09/24 4:19 PM
A0109058.d	N062237-001A-PS	PS	10	01/09/24 4:23 PM
A0109059.d	N062237-001A-MS	MS	1	01/09/24 4:28 PM
A0109060.d	N062237-001A-MS	MS	10	01/09/24 4:33 PM
A0109061.d	CCV4	CCV	1	01/09/24 4:37 PM
A0109062.d	CCB4	CCB	1	01/09/24 4:42 PM
A0109063.d	N062237-001A-MSD	MSD	1	01/09/24 4:47 PM
A0109064.d	N062237-001A-MSD	MSD	10	01/09/24 4:51 PM
A0109065.d	CCV5	CCV	1	01/09/24 4:56 PM
A0109066.d	CCB5	CCB	1	01/09/24 5:01 PM
A0109067.d	N062190-004A	SAMP	1	01/09/24 5:05 PM
A0109068.d	N062190-004B	SAMP	1	01/09/24 5:10 PM
A0109069.d	N062194-001A	SAMP	1	01/09/24 5:14 PM
A0109070.d	N062194-001D	SAMP	1	01/09/24 5:19 PM
A0109071.d	N062194-005A	SAMP	1	01/09/24 5:24 PM
A0109072.d	N062194-005D	SAMP	1	01/09/24 5:28 PM
A0109073.d	N062194-011A	SAMP	1	01/09/24 5:33 PM
A0109074.d	N062194-011D	SAMP	1	01/09/24 5:38 PM
A0109075.d	N062194-012A	SAMP	1	01/09/24 5:42 PM
A0109076.d	N062194-012D	SAMP	1	01/09/24 5:47 PM
A0109077.d	CCV6	CCV	1	01/09/24 5:52 PM
A0109078.d	CCB6	CCB	1	01/09/24 5:56 PM
A0109079.d	ICSA3	ICSA	1	01/09/24 6:01 PM
A0109080.d	ICSAB3	ICSAB	1	01/09/24 6:06 PM
A0109081.d	MB-105922	MBLK	1	01/09/24 6:10 PM
A0109082.d	LCS-105922	LCS	1	01/09/24 6:15 PM
A0109083.d	N062242-001B	SAMP	1	01/09/24 6:19 PM
A0109084.d	N062242-002B	SAMP	1	01/09/24 6:24 PM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109085.d	N062242-003B	SAMP	1	01/09/24 6:29 PM
A0109086.d	N062242-004B	SAMP	1	01/09/24 6:33 PM
A0109087.d	N062242-005B	SAMP	1	01/09/24 6:38 PM
A0109088.d	N062242-006B	SAMP	1	01/09/24 6:43 PM
A0109089.d	N062242-007B	SAMP	1	01/09/24 6:47 PM
A0109090.d	RINSE	ICAL	1	01/09/24 6:52 PM
A0109091.d	CCV7	CCV	1	01/09/24 6:57 PM
A0109092.d	CCB7	CCB	1	01/09/24 7:01 PM
A0109093.d	N062244-003D	SAMP	1	01/09/24 7:06 PM
A0109094.d	N062244-003D	SAMP	5	01/09/24 7:11 PM
A0109095.d	N062244-003D-PS	PS	1	01/09/24 7:15 PM
A0109096.d	N062244-003D-MS	MS	1	01/09/24 7:20 PM
A0109097.d	N062244-003D-MSD	MSD	1	01/09/24 7:25 PM
A0109098.d	N062245-001D	SAMP	1	01/09/24 7:29 PM
A0109099.d	N062245-002D	SAMP	1	01/09/24 7:34 PM
A0109100.d	N062245-003D	SAMP	1	01/09/24 7:39 PM
A0109101.d	N062245-004D	SAMP	1	01/09/24 7:43 PM
A0109102.d	RINSE	ICAL	1	01/09/24 7:48 PM
A0109103.d	CCV8	CCV	1	01/09/24 7:52 PM
A0109104.d	CCB8	CCB	1	01/09/24 7:57 PM
A0109105.d	N062245-005D	SAMP	1	01/09/24 8:02 PM
A0109106.d	N062245-006D	SAMP	1	01/09/24 8:07 PM
A0109107.d	N062245-007D	SAMP	1	01/09/24 8:11 PM
A0109108.d	N062245-008D	SAMP	1	01/09/24 8:16 PM
A0109109.d	N062245-009D	SAMP	1	01/09/24 8:20 PM
A0109110.d	N062245-010D	SAMP	1	01/09/24 8:25 PM
A0109111.d	N062245-011D	SAMP	1	01/09/24 8:30 PM
A0109112.d	N062245-012D	SAMP	1	01/09/24 8:34 PM
A0109113.d	RINSE	ICAL	1	01/09/24 8:39 PM
A0109114.d	CCV9	CCV	1	01/09/24 8:44 PM
A0109115.d	CCB9	CCB	1	01/09/24 8:48 PM
A0109116.d	ICSA4	ICSA	1	01/09/24 8:53 PM
A0109117.d	ICSAB4	ICSAB	1	01/09/24 8:58 PM
A0109118.d	MB-105924	MBLK	1	01/09/24 9:02 PM
A0109119.d	LCS-105924	LCS	1	01/09/24 9:07 PM
A0109120.d	N062243-002E	SAMP	1	01/09/24 9:12 PM
A0109121.d	N062243-003E	SAMP	1	01/09/24 9:16 PM
A0109122.d	N062238-001B	SAMP	1	01/09/24 9:21 PM
A0109123.d	N062238-001B	SAMP	10	01/09/24 9:26 PM
A0109124.d	N062238-002B	SAMP	1	01/09/24 9:30 PM
A0109125.d	N062238-002B	SAMP	10	01/09/24 9:35 PM
A0109126.d	N062238-003B	SAMP	1	01/09/24 9:40 PM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109127.d	N062238-003B	SAMP	10	01/09/24 9:44 PM
A0109128.d	CCV10	CCV	1	01/09/24 9:49 PM
A0109129.d	CCB10	CCB	1	01/09/24 9:54 PM
A0109130.d	N062239-001B	SAMP	1	01/09/24 9:58 PM
A0109131.d	N062239-001B	SAMP	10	01/09/24 10:03 PM
A0109132.d	N062241-001C	SAMP	1	01/09/24 10:08 PM
A0109133.d	N062241-002C	SAMP	1	01/09/24 10:12 PM
A0109134.d	N062241-003C	SAMP	1	01/09/24 10:17 PM
A0109135.d	N062241-004C	SAMP	1	01/09/24 10:22 PM
A0109136.d	N062241-006C	SAMP	1	01/09/24 10:26 PM
A0109137.d	N062241-007C	SAMP	1	01/09/24 10:31 PM
A0109138.d	N062241-008C	SAMP	1	01/09/24 10:36 PM
A0109139.d	RINSE	ICAL	1	01/09/24 10:40 PM
A0109140.d	CCV11	CCV	1	01/09/24 10:45 PM
A0109141.d	CCB11	CCB	1	01/09/24 10:50 PM
A0109142.d	N062241-009C	SAMP	1	01/09/24 10:54 PM
A0109143.d	N062241-009C	SAMP	5	01/09/24 10:59 PM
A0109144.d	N062241-009C-PS	PS	1	01/09/24 11:04 PM
A0109145.d	N062241-009CMS	MS	1	01/09/24 11:08 PM
A0109146.d	N062241-009CMSD	MSD	1	01/09/24 11:13 PM
A0109147.d	RINSE	ICAL	1	01/09/24 11:18 PM
A0109148.d	CCV12	CCV	1	01/09/24 11:22 PM
A0109149.d	CCB12	CCB	1	01/09/24 11:27 PM
A0109150.d	ICSA5	ICSA	1	01/09/24 11:32 PM
A0109151.d	ICSAB5	ICSAB	1	01/09/24 11:36 PM
A0109152.d	MB-105923	MBLK	1	01/09/24 11:41 PM
A0109153.d	LCS-105923	LCS	1	01/09/24 11:45 PM
A0109154.d	N062238-001C	SAMP	1	01/09/24 11:50 PM
A0109155.d	N062238-002C	SAMP	1	01/09/24 11:55 PM
A0109156.d	N062238-003C	SAMP	1	01/09/24 11:59 PM
A0109157.d	N062239-001C	SAMP	1	01/10/24 12:04 AM
A0109158.d	N062239-001C	SAMP	5	01/10/24 12:09 AM
A0109159.d	N062239-001C	SAMP	10	01/10/24 12:13 AM
A0109160.d	N062239-001C	SAMP	50	01/10/24 12:18 AM
A0109161.d	CCV13	CCV	1	01/10/24 12:23 AM
A0109162.d	CCB13	CCB	1	01/10/24 12:27 AM
A0109163.d	N062239-001C-PS	PS	1	01/10/24 12:32 AM
A0109164.d	N062239-001C-PS	PS	10	01/10/24 12:37 AM
A0109165.d	N062239-001C-MS	MS	1	01/10/24 12:41 AM
A0109166.d	N062239-001C-MS	MS	10	01/10/24 12:46 AM
A0109167.d	N062239-001C-MSD	MSD	1	01/10/24 12:50 AM
A0109168.d	N062239-001C-MSD	MSD	10	01/10/24 12:55 AM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109169.d	RINSE	ICAL	1	01/10/24 1:00 AM
A0109170.d	CCV14	CCV	1	01/10/24 1:04 AM
A0109171.d	CCB14	CCB	1	01/10/24 1:09 AM
A0109172.d	ICSA6	ICSA	1	01/10/24 1:14 AM
A0109173.d	ICSAB6	ICSAB	1	01/10/24 1:18 AM
A0109174.d	RINSE	ICAL	1	01/10/24 1:23 AM
A0109175.d	RINSE	ICAL	1	01/10/24 1:28 AM
A0109176.d	RINSE	ICAL	1	01/10/24 1:32 AM
A0109177.d	RINSE	ICAL	1	01/10/24 1:37 AM
A0109178.d	RINSE	ICAL	1	01/10/24 1:42 AM

SAMPLE PREPARATION LOG



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NEVADA
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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:10:22 AM

Reviewed/ Date: *JRB* 2/18/2024

Page: 1 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: *JRB* for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105924 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL 95 DB-01-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105924	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105924	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062238-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

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PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:10:22 AM

Prep End Date: 1/9/2024 2:00:00 PM

Prep Batch 105924 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 2/18/2024

Initials/ Date: for

Technician: Diane Jetajobe

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): 95 Location: DB-01-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062241-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-002E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240108A.b
Acq. Date-Time 2024-01-09 11:41:07
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

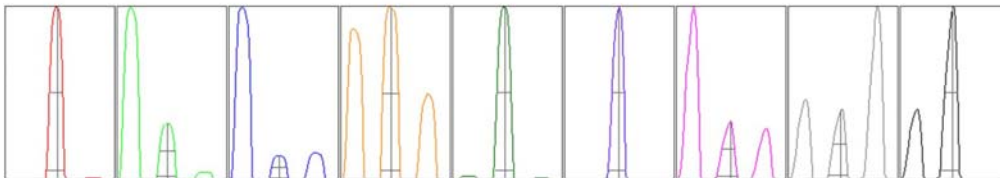
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9239	92393.25	500.00		2.854	5.000
24	10.00	22469	224694.60	500.00		2.407	5.000
25	10.00	3002	30022.35	500.00		2.214	5.000
26	10.00	3469	34686.40	500.00		2.672	5.000
59	10.00	30117	301169.32	500.00		2.364	5.000
115	10.00	31072	310721.73	500.00		3.175	5.000
206	10.00	7324	73242.98	500.00		2.646	5.000
207	10.00	6084	60841.23	500.00		2.466	5.000
208	10.00	15101	151010.22	500.00		2.405	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.555 %
Doubly Charged 70 / 140 1.023 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9352.02	8.95	8.90 - 9.10	
24	23119.90	23.90	23.90 - 24.10	
25	3048.57	24.90	24.90 - 25.10	
26	3466.63	25.90	25.90 - 26.10	
59	29073.59	58.95	58.90 - 59.10	
115	32216.14	115.00	114.90 - 115.10	
206	6770.60	206.00	205.90 - 206.10	
207	5768.60	206.95	206.90 - 207.10	
208	14485.73	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.42	0.536	0.900	
25	0.41	0.497	0.900	
26	0.44	0.539	0.900	
59	0.39	0.535	0.900	
115	0.34	0.481	0.900	
206	0.36	0.567	0.900	
207	0.36	0.541	0.900	
208	0.36	0.535	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2480 V Pulse HV 1547 V

[H2]

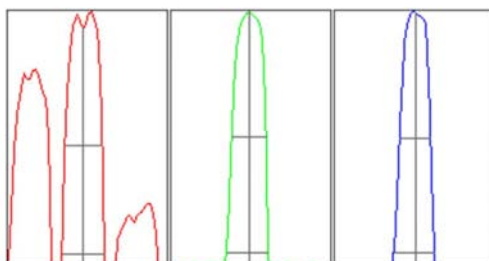
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		194	1943.11			8.565	
59		3135	31349.92			3.247	
115		27184	271842.07			2.017	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.397 %
 Doubly Charged 70 / 140 0.348 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	189.02	25.95	25.90 - 26.10	
59	3253.28	59.00	58.90 - 59.10	
115	27652.19	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.791	0.900	
59	0.65	0.782	0.900	
115	0.59	0.763	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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[He]

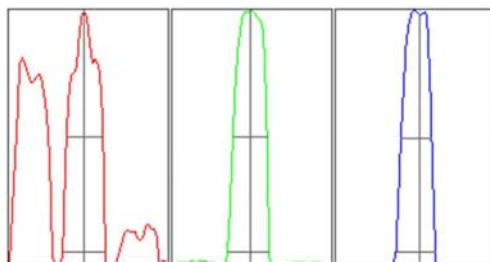
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		83	832.62			11.850	
59		5925	59251.70			2.328	
115		5022	50220.33			2.755	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.181 %
Doubly Charged	70 / 140 1.339 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	94.01	25.95	25.90 - 26.10	
59	5882.36	59.00	58.90 - 59.10	
115	5042.41	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.792	0.900	
59	0.64	0.781	0.900	
115	0.59	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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INITIAL CALIBRATION DATA SUMMARY



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INITIAL CALIBRATION SUMMARY: 240109A

Instrument ID: ICPMS-03

Analyte	Data File	A0109003.d	A0109005.d	A0109006.d	A0109007.d	A0109008.d	A0109009.d	A0109010.d	A0109011.d	
	Acq. Date-Time	01/09/2024 12:02 PM	01/09/2024 12:11 PM	01/09/2024 12:16 PM	01/09/2024 12:21 PM	01/09/2024 12:25 PM	01/09/2024 12:30 PM	01/09/2024 12:35 PM	01/09/2024 12:40 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		R
45 Sc (ISTD) [2]	CPS	36090	37411.9	37735.8	37947.5	37055.4	37742.5	37015.4	37544.3	
55 Mn [2]	CPS	65.5	636.4	6435.2	12883.8	25612.7	51717	126984.3	265390.4	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	99.982	0.50	100.0	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ZZZZZ	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.483	0.50	0.5000	0	96.7	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.921	0.50	20.00	0	99.6	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613130							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.392	0.50	20.00	0	97.0	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613141							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.565	0.50	20.00	0	97.8	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613147	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	20.306	0.50	20.00	0	102 90 110

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613161	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	20.503	0.50	20.00	0	103 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613165	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	20.721	0.50	20.00	0	104 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613177	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	20.693	0.50	20.00	0	103 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613190	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	20.267	0.50	20.00	0	101 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613201							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.592	0.50	20.00	0	103	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613211							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.608	0.50	20.00	0	103	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613225							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.372	0.50	20.00	0	102	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613236							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.175	0.50	20.00	0	101	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613243							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.650	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613166	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613178	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	0.035	0.50
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Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613191	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613202	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	0.045	0.50
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Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613212	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613226	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 0.028 0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613237	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613244	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613119							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613120							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	20.750	0.50	20.00	0	104	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613149							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613150							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	20.327	0.50	20.00	0	102	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613179							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSAB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613180							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.834	0.50	20.00	0	104	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613213							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSAB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613214							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.790	0.50	20.00	0	104	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613245							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSAB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613246							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.777	0.50	20.00	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	36090	36090	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	37693.6	36090	104.44	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	37411.9	36090	103.66	PASS	30-150
Std3-5/50 ppb	ICAL	1	37735.8	36090	104.56	PASS	30-150
Std4-10/100 ppb	ICAL	1	37947.5	36090	105.15	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	37055.4	36090	102.67	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	37742.5	36090	104.58	PASS	30-150
Std7-100/1000 ppb	ICAL	1	37015.4	36090	102.56	PASS	30-150
Std8-200/2000 ppb	ICAL	1	37544.3	36090	104.03	PASS	30-150
ICV	ICV	1	37963	36090	105.19	PASS	30-150
ICB	ICB	1	36768.2	36090	101.88	PASS	30-150
LLICV1	CCV1	1	37474.2	36090	103.84	PASS	30-150
MLCCV	CCV	1	37252.5	36090	103.22	PASS	30-150
ICSA1	ICSA	1	36713.6	36090	101.73	PASS	30-150
ICSAB1	ICSAB	1	36043.3	36090	99.87	PASS	30-150
CCV1	CCV	1	36464.1	36090	101.04	PASS	30-150
CCB1	CCB	1	34766.1	36090	96.33	PASS	30-150
CCV2	CCV	1	34842.9	36090	96.54	PASS	30-150
CCB2	CCB	1	33454.5	36090	92.7	PASS	30-150
CCV3	CCV	1	32513.8	36090	90.09	PASS	30-150
CCB3	CCB	1	30466.6	36090	84.42	PASS	30-150
ICSA2	ICSA	1	32353.5	36090	89.65	PASS	30-150
ICSAB2	ICSAB	1	31742.3	36090	87.95	PASS	30-150
CCV4	CCV	1	31199.1	36090	86.45	PASS	30-150
CCB4	CCB	1	29804.3	36090	82.58	PASS	30-150
CCV5	CCV	1	30544.5	36090	84.63	PASS	30-150
CCB5	CCB	1	29206.6	36090	80.93	PASS	30-150
CCV6	CCV	1	34532.3	36090	95.68	PASS	30-150
CCB6	CCB	1	32179.8	36090	89.17	PASS	30-150
ICSA3	ICSA	1	33848.6	36090	93.79	PASS	30-150
ICSAB3	ICSAB	1	34614.7	36090	95.91	PASS	30-150
CCV7	CCV	1	34245	36090	94.89	PASS	30-150
CCB7	CCB	1	32078.5	36090	88.88	PASS	30-150
CCV8	CCV	1	33009.2	36090	91.46	PASS	30-150
CCB8	CCB	1	31357.2	36090	86.89	PASS	30-150
CCV9	CCV	1	32549.5	36090	90.19	PASS	30-150
CCB9	CCB	1	31282.6	36090	86.68	PASS	30-150
ICSA4	ICSA	1	33275.3	36090	92.2	PASS	30-150
ICSAB4	ICSAB	1	33217.4	36090	92.04	PASS	30-150
MB-105924	MBLK	1	30073.7	36090	83.33	PASS	30-150
LCS-105924	LCS	1	30847.3	36090	85.47	PASS	30-150

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N062243-002E	SAMP	1	30301.9	36090	83.96	PASS	30-150
N062243-003E	SAMP	1	29685.3	36090	82.25	PASS	30-150
N062238-001B	SAMP	1	28659	36090	79.41	PASS	30-150
N062238-001B	SAMP	10	29268.9	36090	81.1	PASS	30-150
N062238-002B	SAMP	1	27895.5	36090	77.29	PASS	30-150
N062238-002B	SAMP	10	29158.7	36090	80.79	PASS	30-150
N062238-003B	SAMP	1	27806.4	36090	77.05	PASS	30-150
N062238-003B	SAMP	10	29466	36090	81.65	PASS	30-150
CCV10	CCV	1	33207.4	36090	92.01	PASS	30-150
CCB10	CCB	1	31745.7	36090	87.96	PASS	30-150
N062239-001B	SAMP	1	28551	36090	79.11	PASS	30-150
N062239-001B	SAMP	10	29956.8	36090	83.01	PASS	30-150
N062241-001C	SAMP	1	28779.2	36090	79.74	PASS	30-150
N062241-002C	SAMP	1	29689.7	36090	82.27	PASS	30-150
N062241-003C	SAMP	1	29913.4	36090	82.89	PASS	30-150
N062241-004C	SAMP	1	28371.9	36090	78.61	PASS	30-150
N062241-006C	SAMP	1	27902.2	36090	77.31	PASS	30-150
N062241-007C	SAMP	1	29037.5	36090	80.46	PASS	30-150
N062241-008C	SAMP	1	28949.5	36090	80.21	PASS	30-150
CCV11	CCV	1	33506.9	36090	92.84	PASS	30-150
CCB11	CCB	1	31330.4	36090	86.81	PASS	30-150
N062241-009C	SAMP	1	28429.7	36090	78.77	PASS	30-150
N062241-009C	SAMP	5	28810.4	36090	79.83	PASS	30-150
N062241-009C-PS	PS	1	28041.3	36090	77.7	PASS	30-150
N062241-009CMS	MS	1	28124.8	36090	77.93	PASS	30-150
N062241-009CMSD	MSD	1	28551.1	36090	79.11	PASS	30-150
CCV12	CCV	1	32455.9	36090	89.93	PASS	30-150
CCB12	CCB	1	30889.6	36090	85.59	PASS	30-150
ICSA5	ICSA	1	33017	36090	91.49	PASS	30-150
ICSAB5	ICSAB	1	32478.2	36090	89.99	PASS	30-150
CCV13	CCV	1	32776.5	36090	90.82	PASS	30-150
CCB13	CCB	1	31467.4	36090	87.19	PASS	30-150
CCV14	CCV	1	32255.5	36090	89.38	PASS	30-150
CCB14	CCB	1	30697.1	36090	85.06	PASS	30-150
ICSA6	ICSA	1	32639.6	36090	90.44	PASS	30-150
ICSAB6	ICSAB	1	32592.9	36090	90.31	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N062239
Test Method: EPA 6020
Analysis Date: 1/9/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105924


Instrument ID: ICPMS-03
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062241-009 DT 5x	Manganese	Mn	µg/L	38.08207	PASS	36.14865	5.35%	10

Reviewed by:

 2/18/2024

Note: NA - Not Applicable

01/26/24 15:35

DT_EPA 6020_N062239_105924

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062241-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ZZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A	Analysis Date: 1/9/2024	SeqNo: 5613240							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	129.461	0.50	100.0	36.15	93.3	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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EPA 6020 Total



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105923
ASSET #: N062239

Instrument ID: ICPMS-03
Analyst: DBJ

Method: EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/9/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Mn is OLR in N062239-001C-PS. For dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer KDG 1/23/2024

Date:
Date:



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105923
 ASSET #: N062239

Instrument ID: ICPMS-03
 Analyst: DBJ

Method: _____ TOTAL _____
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/10/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Mn dilution _____
 % Rec of Mn in N062239-001C-MS failed, low bias. However, LCS passed criteria
 Dilution test for Mn failed. However, PS passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Does batch meet QC requirements?			
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)			
5. Is first level review correct and complete?			

1st Level Reviewer _____
 2nd Level Reviewer _____

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Manganese concentration, in ug/L in the original sample as follows:

$$\text{Manganese, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062239-001C**, the concentration in ug/L is calculated as follows:


$$\text{Manganese, ug/L} = 8.44458 * 100 * (25 / 25)$$

$$\text{Manganese, ug/L} = 844.458$$

Reporting results in two significant figures,

$$\text{Manganese, ug/L} = 840$$

Reviewed by:

 2/18/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	26.121	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	13.11	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	2.853	15	PASS
Std4-10/100 ppb	ICAL	1	9.63	1.906	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.65	1.592	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.01	1.069	15	PASS
Std7-100/1000 ppb	ICAL	1	97.74	1.87	15	PASS
Std8-200/2000 ppb	ICAL	1	201.39	0.519	15	PASS
ICV	ICV	1	99.98	0.877	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLICV1	CCV1	1	0.48	2.636	20	PASS
MLCCV	CCV	1	19.92	0.91	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.75	0.695	15	PASS
CCV1	CCV	1	19.39	1.732	15	PASS
CCB1	CCB	1	0	877.706	15	<PQL
CCV2	CCV	1	19.57	0.535	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.31	0.916	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.33	0.801	15	PASS
CCV4	CCV	1	20.5	2.144	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.72	3.131	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.69	0.371	15	PASS
CCB6	CCB	1	0.04	32.329	15	<PQL
ICSA3	ICSA	1	0.02	70.201	15	<PQL
ICSAB3	ICSAB	1	20.83	0.751	15	PASS
CCV7	CCV	1	20.27	0.94	15	PASS
CCB7	CCB	1	0	1071.346	15	<PQL
CCV8	CCV	1	20.59	3.046	15	PASS
CCB8	CCB	1	0.05	25.096	15	<PQL
CCV9	CCV	1	20.61	0.796	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.79	0.346	15	PASS
CCV10	CCV	1	20.37	1.449	15	PASS
CCB10	CCB	1	0.03	77.417	15	<PQL

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV11	CCV	1	20.17	1.415	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
CCV12	CCV	1	20.65	2.561	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.78	1.558	15	PASS
MB-105923	MBLK	1	0	3444.953	15	<PQL
LCS-105923	LCS	1	99.33	1.321	15	PASS
N062238-001C	SAMP	1	1280.76	1.173	15	PASS
N062238-002C	SAMP	1	1206.39	0.56	15	PASS
N062238-003C	SAMP	1	1325.41	0.66	15	PASS
N062239-001C	SAMP	1	803.11	0.826	15	PASS
N062239-001C	SAMP	5	174.73	2.132	15	PASS
N062239-001C	SAMP	10	87.04	0.819	15	PASS
N062239-001C	SAMP	50	18.67	1.343	15	PASS
CCV13	CCV	1	20.34	2.296	15	PASS
CCB13	CCB	1	0.02	47.889	15	<PQL
N062239-001C-PS	PS	1	869.26	1.414	15	PASS
N062239-001C-PS	PS	10	186.71	2.026	15	PASS
N062239-001C-MS	MS	1	897.83	2.035	15	PASS
N062239-001C-MS	MS	10	91.99	0.937	15	PASS
N062239-001C-MSD	MSD	1	884.48	0.351	15	PASS
N062239-001C-MSD	MSD	10	95.11	1.591	15	PASS
CCV14	CCV	1	20.15	1.252	15	PASS
CCB14	CCB	1	0.03	49.532	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	20.1	1.48	15	PASS

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0	1201.148	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.36	15.327	15	<PQL
Std3-5/50 ppb	ICAL	1	4.61	2.255	15	PASS
Std4-10/100 ppb	ICAL	1	9.61	2.254	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.4	1.057	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.4	0.839	15	PASS
Std7-100/1000 ppb	ICAL	1	97.91	2	15	PASS
Std8-200/2000 ppb	ICAL	1	201.25	1.413	15	PASS
ICV	ICV	1	99.89	1.717	15	PASS
ICV	ICV	1	98.86	0.976	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	0.43	7.273	20	PASS
MLCCV	CCV	1	19.25	2.274	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.36	0.544	15	PASS
LLICV1	LLICV	1	0.46	3.405	20	PASS
CCV1	CCV	1	19.27	1.021	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	18.63	1.17	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.92	1.094	15	PASS
CCV3	CCV	1	18.84	0.656	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
CCV4	CCV	1	18.93	1.189	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
N062239-001C	SAMP	100	8.44	1.443	15	PASS
N062239-001C	SAMP	500	1.27	7.056	15	PASS
N062239-001C-PS	PS	100	107.11	1.591	15	PASS
N062239-001C-MS	MS	100	8.98	0.634	15	PASS
CCV5	CCV	1	19.13	2.858	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
N062239-001C-MSD	MSD	100	9.4	3.037	15	PASS
CCV6	CCV	1	18.92	1.324	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.25	1.146	15	PASS
CCV7	CCV	1	18.58	0.781	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	18.39	1.813	15	PASS

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	18.63	0.919	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.61	1.613	15	PASS
CCV10	CCV	1	18.82	0.775	15	PASS
CCB10	CCB	1	0	472.574	15	<PQL
CCV11	CCV	1	18.84	2.484	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
CCV12	CCV	1	18.91	2.191	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.77	0.772	15	PASS
CCV13	CCV	1	18.79	2.06	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL
CCV14	CCV	1	18.45	0.783	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL
CCV15	CCV	1	18.68	1.779	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL
CCV16	CCV	1	18.9	1.376	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	19.33	0.675	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109001.d	RINSE	ICAL	1	01/09/24 11:52 AM
A0109002.d	RINSE	ICAL	1	01/09/24 11:57 AM
A0109003.d	Cal Blk	IBLK	1	01/09/24 12:02 PM
A0109004.d	Std1-0.1/1 ppb	ICAL	1	01/09/24 12:06 PM
A0109005.d	Std2-0.5/5 ppb	ICAL	1	01/09/24 12:11 PM
A0109006.d	Std3-5/50 ppb	ICAL	1	01/09/24 12:16 PM
A0109007.d	Std4-10/100 ppb	ICAL	1	01/09/24 12:21 PM
A0109008.d	Std5-4.0/20/200 ppb	ICAL	1	01/09/24 12:25 PM
A0109009.d	Std6-8.0/40/400 ppb	ICAL	1	01/09/24 12:30 PM
A0109010.d	Std7-100/1000 ppb	ICAL	1	01/09/24 12:35 PM
A0109011.d	Std8-200/2000 ppb	ICAL	1	01/09/24 12:40 PM
A0109012.d	ICV	ICV	1	01/09/24 12:46 PM
A0109013.d	ICB	ICB	1	01/09/24 12:51 PM
A0109014.d	LLICV1	CCV1	1	01/09/24 12:55 PM
A0109015.d	MLCCV	CCV	1	01/09/24 1:00 PM
A0109016.d	ICSA1	ICSA	1	01/09/24 1:05 PM
A0109017.d	ICSAB1	ICSAB	1	01/09/24 1:09 PM
A0109018.d	MB-105929	MBLK	1	01/09/24 1:17 PM
A0109019.d	LCS-105929	LCS	1	01/09/24 1:21 PM
A0109020.d	N062208-001B	SAMP	1	01/09/24 1:26 PM
A0109021.d	N062208-001B	SAMP	5	01/09/24 1:31 PM
A0109022.d	N062208-001B-PS	PS	1	01/09/24 1:35 PM
A0109023.d	N062208-001B-MS	MS	1	01/09/24 1:40 PM
A0109024.d	N062208-001B-MSD	MSD	1	01/09/24 1:45 PM
A0109025.d	N062208-002B	SAMP	1	01/09/24 1:49 PM
A0109026.d	N062208-003B	SAMP	1	01/09/24 1:54 PM
A0109027.d	RINSE	ICAL	1	01/09/24 1:59 PM
A0109028.d	CCV1	CCV	1	01/09/24 2:03 PM
A0109029.d	CCB1	CCB	1	01/09/24 2:08 PM
A0109030.d	N062208-004B	SAMP	1	01/09/24 2:13 PM
A0109031.d	N062208-005B	SAMP	1	01/09/24 2:17 PM
A0109032.d	N062208-006B	SAMP	1	01/09/24 2:22 PM
A0109033.d	N062208-007B	SAMP	1	01/09/24 2:27 PM
A0109034.d	N062208-008B	SAMP	1	01/09/24 2:31 PM
A0109035.d	N062209-001D	SAMP	1	01/09/24 2:36 PM
A0109036.d	N062209-002D	SAMP	1	01/09/24 2:40 PM
A0109037.d	N062209-003D	SAMP	1	01/09/24 2:45 PM
A0109038.d	N062209-004D	SAMP	1	01/09/24 2:50 PM
A0109039.d	RINSE	ICAL	1	01/09/24 2:54 PM
A0109040.d	CCV2	CCV	1	01/09/24 2:59 PM
A0109041.d	CCB2	CCB	1	01/09/24 3:04 PM
A0109042.d	N062210-001B	SAMP	1	01/09/24 3:08 PM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109043.d	N062210-002B	SAMP	1	01/09/24 3:13 PM
A0109044.d	N062210-003B	SAMP	1	01/09/24 3:17 PM
A0109045.d	N062200-012A	SAMP	1	01/09/24 3:22 PM
A0109046.d	RINSE	ICAL	1	01/09/24 3:27 PM
A0109047.d	CCV3	CCV	1	01/09/24 3:32 PM
A0109048.d	CCB3	CCB	1	01/09/24 3:37 PM
A0109049.d	ICSA2	ICSA	1	01/09/24 3:42 PM
A0109050.d	ICSAB2	ICSAB	1	01/09/24 3:46 PM
A0109051.d	MB-105925	MBLK	1	01/09/24 3:51 PM
A0109052.d	LCS-105925	LCS	1	01/09/24 3:56 PM
A0109053.d	N062237-001A	SAMP	1	01/09/24 4:00 PM
A0109054.d	N062237-001A	SAMP	5	01/09/24 4:05 PM
A0109055.d	N062237-001A	SAMP	10	01/09/24 4:09 PM
A0109056.d	N062237-001A	SAMP	50	01/09/24 4:14 PM
A0109057.d	N062237-001A-PS	PS	1	01/09/24 4:19 PM
A0109058.d	N062237-001A-PS	PS	10	01/09/24 4:23 PM
A0109059.d	N062237-001A-MS	MS	1	01/09/24 4:28 PM
A0109060.d	N062237-001A-MS	MS	10	01/09/24 4:33 PM
A0109061.d	CCV4	CCV	1	01/09/24 4:37 PM
A0109062.d	CCB4	CCB	1	01/09/24 4:42 PM
A0109063.d	N062237-001A-MSD	MSD	1	01/09/24 4:47 PM
A0109064.d	N062237-001A-MSD	MSD	10	01/09/24 4:51 PM
A0109065.d	CCV5	CCV	1	01/09/24 4:56 PM
A0109066.d	CCB5	CCB	1	01/09/24 5:01 PM
A0109067.d	N062190-004A	SAMP	1	01/09/24 5:05 PM
A0109068.d	N062190-004B	SAMP	1	01/09/24 5:10 PM
A0109069.d	N062194-001A	SAMP	1	01/09/24 5:14 PM
A0109070.d	N062194-001D	SAMP	1	01/09/24 5:19 PM
A0109071.d	N062194-005A	SAMP	1	01/09/24 5:24 PM
A0109072.d	N062194-005D	SAMP	1	01/09/24 5:28 PM
A0109073.d	N062194-011A	SAMP	1	01/09/24 5:33 PM
A0109074.d	N062194-011D	SAMP	1	01/09/24 5:38 PM
A0109075.d	N062194-012A	SAMP	1	01/09/24 5:42 PM
A0109076.d	N062194-012D	SAMP	1	01/09/24 5:47 PM
A0109077.d	CCV6	CCV	1	01/09/24 5:52 PM
A0109078.d	CCB6	CCB	1	01/09/24 5:56 PM
A0109079.d	ICSA3	ICSA	1	01/09/24 6:01 PM
A0109080.d	ICSAB3	ICSAB	1	01/09/24 6:06 PM
A0109081.d	MB-105922	MBLK	1	01/09/24 6:10 PM
A0109082.d	LCS-105922	LCS	1	01/09/24 6:15 PM
A0109083.d	N062242-001B	SAMP	1	01/09/24 6:19 PM
A0109084.d	N062242-002B	SAMP	1	01/09/24 6:24 PM

INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109085.d	N062242-003B	SAMP	1	01/09/24 6:29 PM
A0109086.d	N062242-004B	SAMP	1	01/09/24 6:33 PM
A0109087.d	N062242-005B	SAMP	1	01/09/24 6:38 PM
A0109088.d	N062242-006B	SAMP	1	01/09/24 6:43 PM
A0109089.d	N062242-007B	SAMP	1	01/09/24 6:47 PM
A0109090.d	RINSE	ICAL	1	01/09/24 6:52 PM
A0109091.d	CCV7	CCV	1	01/09/24 6:57 PM
A0109092.d	CCB7	CCB	1	01/09/24 7:01 PM
A0109093.d	N062244-003D	SAMP	1	01/09/24 7:06 PM
A0109094.d	N062244-003D	SAMP	5	01/09/24 7:11 PM
A0109095.d	N062244-003D-PS	PS	1	01/09/24 7:15 PM
A0109096.d	N062244-003D-MS	MS	1	01/09/24 7:20 PM
A0109097.d	N062244-003D-MSD	MSD	1	01/09/24 7:25 PM
A0109098.d	N062245-001D	SAMP	1	01/09/24 7:29 PM
A0109099.d	N062245-002D	SAMP	1	01/09/24 7:34 PM
A0109100.d	N062245-003D	SAMP	1	01/09/24 7:39 PM
A0109101.d	N062245-004D	SAMP	1	01/09/24 7:43 PM
A0109102.d	RINSE	ICAL	1	01/09/24 7:48 PM
A0109103.d	CCV8	CCV	1	01/09/24 7:52 PM
A0109104.d	CCB8	CCB	1	01/09/24 7:57 PM
A0109105.d	N062245-005D	SAMP	1	01/09/24 8:02 PM
A0109106.d	N062245-006D	SAMP	1	01/09/24 8:07 PM
A0109107.d	N062245-007D	SAMP	1	01/09/24 8:11 PM
A0109108.d	N062245-008D	SAMP	1	01/09/24 8:16 PM
A0109109.d	N062245-009D	SAMP	1	01/09/24 8:20 PM
A0109110.d	N062245-010D	SAMP	1	01/09/24 8:25 PM
A0109111.d	N062245-011D	SAMP	1	01/09/24 8:30 PM
A0109112.d	N062245-012D	SAMP	1	01/09/24 8:34 PM
A0109113.d	RINSE	ICAL	1	01/09/24 8:39 PM
A0109114.d	CCV9	CCV	1	01/09/24 8:44 PM
A0109115.d	CCB9	CCB	1	01/09/24 8:48 PM
A0109116.d	ICSA4	ICSA	1	01/09/24 8:53 PM
A0109117.d	ICSAB4	ICSAB	1	01/09/24 8:58 PM
A0109118.d	MB-105924	MBLK	1	01/09/24 9:02 PM
A0109119.d	LCS-105924	LCS	1	01/09/24 9:07 PM
A0109120.d	N062243-002E	SAMP	1	01/09/24 9:12 PM
A0109121.d	N062243-003E	SAMP	1	01/09/24 9:16 PM
A0109122.d	N062238-001B	SAMP	1	01/09/24 9:21 PM
A0109123.d	N062238-001B	SAMP	10	01/09/24 9:26 PM
A0109124.d	N062238-002B	SAMP	1	01/09/24 9:30 PM
A0109125.d	N062238-002B	SAMP	10	01/09/24 9:35 PM
A0109126.d	N062238-003B	SAMP	1	01/09/24 9:40 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0109127.d	N062238-003B	SAMP	10	01/09/24 9:44 PM
A0109128.d	CCV10	CCV	1	01/09/24 9:49 PM
A0109129.d	CCB10	CCB	1	01/09/24 9:54 PM
A0109130.d	N062239-001B	SAMP	1	01/09/24 9:58 PM
A0109131.d	N062239-001B	SAMP	10	01/09/24 10:03 PM
A0109132.d	N062241-001C	SAMP	1	01/09/24 10:08 PM
A0109133.d	N062241-002C	SAMP	1	01/09/24 10:12 PM
A0109134.d	N062241-003C	SAMP	1	01/09/24 10:17 PM
A0109135.d	N062241-004C	SAMP	1	01/09/24 10:22 PM
A0109136.d	N062241-006C	SAMP	1	01/09/24 10:26 PM
A0109137.d	N062241-007C	SAMP	1	01/09/24 10:31 PM
A0109138.d	N062241-008C	SAMP	1	01/09/24 10:36 PM
A0109139.d	RINSE	ICAL	1	01/09/24 10:40 PM
A0109140.d	CCV11	CCV	1	01/09/24 10:45 PM
A0109141.d	CCB11	CCB	1	01/09/24 10:50 PM
A0109142.d	N062241-009C	SAMP	1	01/09/24 10:54 PM
A0109143.d	N062241-009C	SAMP	5	01/09/24 10:59 PM
A0109144.d	N062241-009C-PS	PS	1	01/09/24 11:04 PM
A0109145.d	N062241-009CMS	MS	1	01/09/24 11:08 PM
A0109146.d	N062241-009CMSD	MSD	1	01/09/24 11:13 PM
A0109147.d	RINSE	ICAL	1	01/09/24 11:18 PM
A0109148.d	CCV12	CCV	1	01/09/24 11:22 PM
A0109149.d	CCB12	CCB	1	01/09/24 11:27 PM
A0109150.d	ICSA5	ICSA	1	01/09/24 11:32 PM
A0109151.d	ICSAB5	ICSAB	1	01/09/24 11:36 PM
A0109152.d	MB-105923	MBLK	1	01/09/24 11:41 PM
A0109153.d	LCS-105923	LCS	1	01/09/24 11:45 PM
A0109154.d	N062238-001C	SAMP	1	01/09/24 11:50 PM
A0109155.d	N062238-002C	SAMP	1	01/09/24 11:55 PM
A0109156.d	N062238-003C	SAMP	1	01/09/24 11:59 PM
A0109157.d	N062239-001C	SAMP	1	01/10/24 12:04 AM
A0109158.d	N062239-001C	SAMP	5	01/10/24 12:09 AM
A0109159.d	N062239-001C	SAMP	10	01/10/24 12:13 AM
A0109160.d	N062239-001C	SAMP	50	01/10/24 12:18 AM
A0109161.d	CCV13	CCV	1	01/10/24 12:23 AM
A0109162.d	CCB13	CCB	1	01/10/24 12:27 AM
A0109163.d	N062239-001C-PS	PS	1	01/10/24 12:32 AM
A0109164.d	N062239-001C-PS	PS	10	01/10/24 12:37 AM
A0109165.d	N062239-001C-MS	MS	1	01/10/24 12:41 AM
A0109166.d	N062239-001C-MS	MS	10	01/10/24 12:46 AM
A0109167.d	N062239-001C-MSD	MSD	1	01/10/24 12:50 AM
A0109168.d	N062239-001C-MSD	MSD	10	01/10/24 12:55 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0109169.d	RINSE	ICAL	1	01/10/24 1:00 AM
A0109170.d	CCV14	CCV	1	01/10/24 1:04 AM
A0109171.d	CCB14	CCB	1	01/10/24 1:09 AM
A0109172.d	ICSA6	ICSA	1	01/10/24 1:14 AM
A0109173.d	ICSAB6	ICSAB	1	01/10/24 1:18 AM
A0109174.d	RINSE	ICAL	1	01/10/24 1:23 AM
A0109175.d	RINSE	ICAL	1	01/10/24 1:28 AM
A0109176.d	RINSE	ICAL	1	01/10/24 1:32 AM
A0109177.d	RINSE	ICAL	1	01/10/24 1:37 AM
A0109178.d	RINSE	ICAL	1	01/10/24 1:42 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110001.d	RINSE	ICAL	1	01/10/24 4:23 PM
A0110002.d	RINSE	ICAL	1	01/10/24 4:28 PM
A0110003.d	Cal Blk	IBLK	1	01/10/24 4:33 PM
A0110004.d	Std1-0.1/1 ppb	ICAL	1	01/10/24 4:37 PM
A0110005.d	Std2-0.5/5 ppb	ICAL	1	01/10/24 4:42 PM
A0110006.d	Std3-5/50 ppb	ICAL	1	01/10/24 4:47 PM
A0110007.d	Std4-10/100 ppb	ICAL	1	01/10/24 4:52 PM
A0110008.d	Std5-4.0/20/200 ppb	ICAL	1	01/10/24 4:57 PM
A0110009.d	Std6-8.0/40/400 ppb	ICAL	1	01/10/24 5:01 PM
A0110010.d	Std7-100/1000 ppb	ICAL	1	01/10/24 5:06 PM
A0110011.d	Std8-200/2000 ppb	ICAL	1	01/10/24 5:11 PM
A0110012.d	ICV	ICV	1	01/10/24 5:18 PM
A0110013.d	ICV	ICV	1	01/10/24 5:23 PM
A0110014.d	ICB	ICB	1	01/10/24 5:27 PM
A0110015.d	LLICV1	LLICV	1	01/10/24 5:32 PM
A0110016.d	MLCCV	CCV	1	01/10/24 5:36 PM
A0110017.d	ICSA1	ICSA	1	01/10/24 5:41 PM
A0110018.d	ICSAB1	ICSAB	1	01/10/24 5:46 PM
A0110019.d	LLICV1	LLICV	1	01/10/24 5:50 PM
A0110020.d	MB-105926	MBLK	1	01/10/24 5:55 PM
A0110021.d	LCS-105926	LCS	1	01/10/24 6:00 PM
A0110022.d	N062207-001A	SAMP	1	01/10/24 6:04 PM
A0110023.d	N062207-001A	SAMP	5	01/10/24 6:09 PM
A0110024.d	N062207-001A-PS	PS	1	01/10/24 6:14 PM
A0110025.d	N062207-001A-MS	MS	1	01/10/24 6:18 PM
A0110026.d	N062207-001A-MSD	MSD	1	01/10/24 6:23 PM
A0110027.d	MB-105957	MBLK	1	01/10/24 6:28 PM
A0110028.d	LCS-105957	LCS	1	01/10/24 6:32 PM
A0110029.d	N062244-001C	SAMP	5	01/10/24 6:37 PM
A0110030.d	N062244-001C-PS	PS	1	01/10/24 6:42 PM
A0110031.d	CCV1	CCV	1	01/10/24 6:46 PM
A0110032.d	CCB1	CCB	1	01/10/24 6:51 PM
A0110033.d	N062244-001C-MS	MS	1	01/10/24 6:56 PM
A0110034.d	N062244-001C-MSD	MSD	1	01/10/24 7:00 PM
A0110035.d	N062244-001C	SAMP	1	01/10/24 7:05 PM
A0110036.d	N062244-002C	SAMP	1	01/10/24 7:09 PM
A0110037.d	N062244-004C	SAMP	1	01/10/24 7:14 PM
A0110038.d	N062279-010D	SAMP	1	01/10/24 7:19 PM
A0110039.d	N062279-011D	SAMP	1	01/10/24 7:23 PM
A0110040.d	N062279-012D	SAMP	1	01/10/24 7:28 PM
A0110041.d	CCV2	CCV	1	01/10/24 7:33 PM
A0110042.d	CCB2	CCB	1	01/10/24 7:37 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0110043.d	ICSA2	ICSA	1	01/10/24 7:42 PM
A0110044.d	ICSAB2	ICSAB	1	01/10/24 7:47 PM
A0110045.d	MB-105963	MBLK	1	01/10/24 7:51 PM
A0110046.d	LCS-105963	LCS	1	01/10/24 7:56 PM
A0110047.d	N062300-001A	SAMP	1	01/10/24 8:01 PM
A0110048.d	N062300-001A	SAMP	5	01/10/24 8:05 PM
A0110049.d	N062300-001A-PS	PS	1	01/10/24 8:10 PM
A0110050.d	N062300-001A-MS	MS	1	01/10/24 8:14 PM
A0110051.d	N062300-001A-MSD	MSD	1	01/10/24 8:19 PM
A0110052.d	N062301-001A	SAMP	1	01/10/24 8:24 PM
A0110053.d	CCV3	CCV	1	01/10/24 8:28 PM
A0110054.d	CCB3	CCB	1	01/10/24 8:33 PM
A0110055.d	N062242-005B	SAMP	1	01/10/24 8:38 PM
A0110056.d	N062244-003D	SAMP	10	01/10/24 8:42 PM
A0110057.d	N062244-003D	SAMP	50	01/10/24 8:47 PM
A0110058.d	N062244-003D-PS	PS	10	01/10/24 8:52 PM
A0110059.d	N062244-003D-MS	MS	10	01/10/24 8:56 PM
A0110060.d	N062244-003D-MSD	MSD	10	01/10/24 9:01 PM
A0110061.d	N062245-001D	SAMP	10	01/10/24 9:06 PM
A0110062.d	N062245-002D	SAMP	10	01/10/24 9:10 PM
A0110063.d	N062245-003D	SAMP	10	01/10/24 9:15 PM
A0110064.d	N062245-006D	SAMP	10	01/10/24 9:19 PM
A0110065.d	CCV4	CCV	1	01/10/24 9:24 PM
A0110066.d	CCB4	CCB	1	01/10/24 9:29 PM
A0110067.d	N062245-009D	SAMP	1	01/10/24 9:33 PM
A0110068.d	N062245-010D	SAMP	1	01/10/24 9:38 PM
A0110069.d	N062245-012D	SAMP	1	01/10/24 9:43 PM
A0110070.d	N062243-002E	SAMP	1	01/10/24 9:47 PM
A0110071.d	N062241-004C	SAMP	1	01/10/24 9:52 PM
A0110072.d	N062241-006C	SAMP	10	01/10/24 9:57 PM
A0110073.d	N062239-001C	SAMP	100	01/10/24 10:01 PM
A0110074.d	N062239-001C	SAMP	500	01/10/24 10:06 PM
A0110075.d	N062239-001C-PS	PS	100	01/10/24 10:11 PM
A0110076.d	N062239-001C-MS	MS	100	01/10/24 10:15 PM
A0110077.d	CCV5	CCV	1	01/10/24 10:20 PM
A0110078.d	CCB5	CCB	1	01/10/24 10:24 PM
A0110079.d	N062239-001C-MSD	MSD	100	01/10/24 10:29 PM
A0110080.d	N062242-005B	SAMP	1	01/10/24 10:34 PM
A0110081.d	N062245-009D	SAMP	1	01/10/24 10:38 PM
A0110082.d	N062245-010D	SAMP	1	01/10/24 10:43 PM
A0110083.d	N062245-012D	SAMP	1	01/10/24 10:48 PM
A0110084.d	N062243-002E	SAMP	1	01/10/24 10:52 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110085.d	N062241-004C	SAMP	1	01/10/24 10:57 PM
A0110086.d	RINSE	ICAL	1	01/10/24 11:02 PM
A0110087.d	CCV6	CCV	1	01/10/24 11:06 PM
A0110088.d	CCB6	CCB	1	01/10/24 11:11 PM
A0110089.d	ICSA3	ICSA	1	01/10/24 11:16 PM
A0110090.d	ICSAB3	ICSAB	1	01/10/24 11:20 PM
A0110091.d	MB-105953	MBLK	1	01/10/24 11:25 PM
A0110092.d	LCS-105953	LCS	1	01/10/24 11:29 PM
A0110093.d	N062274-001B	SAMP	1	01/10/24 11:34 PM
A0110094.d	N062274-002B	SAMP	1	01/10/24 11:39 PM
A0110095.d	N062274-003B	SAMP	1	01/10/24 11:44 PM
A0110096.d	N062275-001B	SAMP	1	01/10/24 11:48 PM
A0110097.d	N062275-002B	SAMP	1	01/10/24 11:53 PM
A0110098.d	N062276-001B	SAMP	1	01/10/24 11:57 PM
A0110099.d	N062278-002D	SAMP	1	01/11/24 12:02 AM
A0110100.d	RINSE	ICAL	1	01/11/24 12:07 AM
A0110101.d	CCV7	CCV	1	01/11/24 12:12 AM
A0110102.d	CCB7	CCB	1	01/11/24 12:16 AM
A0110103.d	N062278-002D	SAMP	5	01/11/24 12:21 AM
A0110104.d	N062278-002D-PS	PS	1	01/11/24 12:25 AM
A0110105.d	N062278-002D-MS	MS	1	01/11/24 12:30 AM
A0110106.d	N062278-002D-MSD	MSD	1	01/11/24 12:35 AM
A0110107.d	N062278-003D	SAMP	1	01/11/24 12:40 AM
A0110108.d	N062278-004D	SAMP	1	01/11/24 12:44 AM
A0110109.d	N062278-005D	SAMP	1	01/11/24 12:49 AM
A0110110.d	N062278-007D	SAMP	1	01/11/24 12:53 AM
A0110111.d	N062278-008D	SAMP	1	01/11/24 12:58 AM
A0110112.d	RINSE	ICAL	1	01/11/24 1:03 AM
A0110113.d	CCV8	CCV	1	01/11/24 1:07 AM
A0110114.d	CCB8	CCB	1	01/11/24 1:12 AM
A0110115.d	N062278-009D	SAMP	1	01/11/24 1:17 AM
A0110116.d	N062278-010D	SAMP	1	01/11/24 1:21 AM
A0110117.d	N062278-011D	SAMP	1	01/11/24 1:26 AM
A0110118.d	N062278-012D	SAMP	1	01/11/24 1:31 AM
A0110119.d	N062279-022D	SAMP	1	01/11/24 1:35 AM
A0110120.d	N062279-023D	SAMP	1	01/11/24 1:40 AM
A0110121.d	RINSE	ICAL	1	01/11/24 1:45 AM
A0110122.d	CCV9	CCV	1	01/11/24 1:49 AM
A0110123.d	CCB9	CCB	1	01/11/24 1:54 AM
A0110124.d	ICSA4	ICSA	1	01/11/24 1:59 AM
A0110125.d	ICSAB4	ICSAB	1	01/11/24 2:03 AM
A0110126.d	MB-105954	MBLK	1	01/11/24 2:08 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0110127.d	LCS-105954	LCS	1	01/11/24 2:13 AM
A0110128.d	N062279-001D	SAMP	1	01/11/24 2:17 AM
A0110129.d	N062279-001D	SAMP	5	01/11/24 2:22 AM
A0110130.d	N062279-001D-PS	PS	1	01/11/24 2:27 AM
A0110131.d	N062279-001D-MS	MS	1	01/11/24 2:31 AM
A0110132.d	N062279-001D-MSD	MSD	1	01/11/24 2:36 AM
A0110133.d	N062279-002D	SAMP	1	01/11/24 2:41 AM
A0110134.d	N062279-003D	SAMP	1	01/11/24 2:45 AM
A0110135.d	RINSE	ICAL	1	01/11/24 2:50 AM
A0110136.d	CCV10	CCV	1	01/11/24 2:55 AM
A0110137.d	CCB10	CCB	1	01/11/24 2:59 AM
A0110138.d	N062279-004D	SAMP	1	01/11/24 3:04 AM
A0110139.d	N062279-005D	SAMP	1	01/11/24 3:09 AM
A0110140.d	N062279-006D	SAMP	1	01/11/24 3:13 AM
A0110141.d	N062279-008D	SAMP	1	01/11/24 3:18 AM
A0110142.d	N062279-009D	SAMP	1	01/11/24 3:23 AM
A0110143.d	N062279-010D	SAMP	1	01/11/24 3:27 AM
A0110144.d	N062279-011D	SAMP	1	01/11/24 3:32 AM
A0110145.d	N062279-012D	SAMP	1	01/11/24 3:37 AM
A0110146.d	N062279-013B	SAMP	1	01/11/24 3:41 AM
A0110147.d	RINSE	ICAL	1	01/11/24 3:46 AM
A0110148.d	CCV11	CCV	1	01/11/24 3:50 AM
A0110149.d	CCB11	CCB	1	01/11/24 3:55 AM
A0110150.d	N062279-014B	SAMP	1	01/11/24 4:00 AM
A0110151.d	N062279-015B	SAMP	1	01/11/24 4:05 AM
A0110152.d	N062279-016B	SAMP	1	01/11/24 4:09 AM
A0110153.d	N062279-017B	SAMP	1	01/11/24 4:14 AM
A0110154.d	N062279-018B	SAMP	1	01/11/24 4:18 AM
A0110155.d	N062279-019B	SAMP	1	01/11/24 4:23 AM
A0110156.d	N062279-020B	SAMP	1	01/11/24 4:28 AM
A0110157.d	N062279-021B	SAMP	1	01/11/24 4:32 AM
A0110158.d	RINSE	ICAL	1	01/11/24 4:37 AM
A0110159.d	CCV12	CCV	1	01/11/24 4:42 AM
A0110160.d	CCB12	CCB	1	01/11/24 4:46 AM
A0110161.d	ICSA5	ICSA	1	01/11/24 4:51 AM
A0110162.d	ICSAB5	ICSAB	1	01/11/24 4:56 AM
A0110163.d	MB-105955	MBLK	1	01/11/24 5:00 AM
A0110164.d	LCS-105955	LCS	1	01/11/24 5:05 AM
A0110165.d	N062272-001C	SAMP	1	01/11/24 5:10 AM
A0110166.d	N062272-002C	SAMP	1	01/11/24 5:14 AM
A0110167.d	N062272-003C	SAMP	1	01/11/24 5:19 AM
A0110168.d	N062272-004C	SAMP	1	01/11/24 5:24 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0110169.d	N062272-004C	SAMP	5	01/11/24 5:28 AM
A0110170.d	N062272-004C-PS	PS	1	01/11/24 5:33 AM
A0110171.d	N062272-004C-MS	MS	1	01/11/24 5:38 AM
A0110172.d	RINSE	ICAL	1	01/11/24 5:42 AM
A0110173.d	CCV13	CCV	1	01/11/24 5:47 AM
A0110174.d	CCB13	CCB	1	01/11/24 5:52 AM
A0110175.d	N062272-004C-MSD	MSD	1	01/11/24 5:56 AM
A0110176.d	N062272-005C	SAMP	1	01/11/24 6:01 AM
A0110177.d	N062272-006C	SAMP	1	01/11/24 6:06 AM
A0110178.d	N062272-007C	SAMP	1	01/11/24 6:10 AM
A0110179.d	N062272-008C	SAMP	1	01/11/24 6:15 AM
A0110180.d	N062272-009C	SAMP	1	01/11/24 6:20 AM
A0110181.d	N062272-010C	SAMP	1	01/11/24 6:24 AM
A0110182.d	N062272-011C	SAMP	1	01/11/24 6:29 AM
A0110183.d	N062272-013C	SAMP	1	01/11/24 6:34 AM
A0110184.d	RINSE	ICAL	1	01/11/24 6:38 AM
A0110185.d	CCV14	CCV	1	01/11/24 6:43 AM
A0110186.d	CCB14	CCB	1	01/11/24 6:48 AM
A0110187.d	N062272-014C	SAMP	1	01/11/24 6:52 AM
A0110188.d	N062272-015C	SAMP	1	01/11/24 6:57 AM
A0110189.d	N062272-016C	SAMP	1	01/11/24 7:02 AM
A0110190.d	N062272-017C	SAMP	1	01/11/24 7:06 AM
A0110191.d	N062272-018C	SAMP	1	01/11/24 7:11 AM
A0110192.d	N062272-019C	SAMP	1	01/11/24 7:16 AM
A0110193.d	N062272-020C	SAMP	1	01/11/24 7:20 AM
A0110194.d	RINSE	ICAL	1	01/11/24 7:25 AM
A0110195.d	CCV15	CCV	1	01/11/24 7:30 AM
A0110196.d	CCB15	CCB	1	01/11/24 7:34 AM
A0110197.d	MB-105956	MBLK	1	01/11/24 7:39 AM
A0110198.d	LCS-105956	LCS	1	01/11/24 7:44 AM
A0110199.d	N062274-001C	SAMP	1	01/11/24 7:48 AM
A0110200.d	N062274-002C	SAMP	1	01/11/24 7:53 AM
A0110201.d	N062274-002C	SAMP	5	01/11/24 7:58 AM
A0110202.d	N062274-002C-PS	PS	1	01/11/24 8:02 AM
A0110203.d	N062274-002C-MS	MS	1	01/11/24 8:07 AM
A0110204.d	N062274-002C-MSD	MSD	1	01/11/24 8:12 AM
A0110205.d	N062274-003C	SAMP	1	01/11/24 8:16 AM
A0110206.d	RINSE	ICAL	1	01/11/24 8:21 AM
A0110207.d	CCV16	CCV	1	01/11/24 8:26 AM
A0110208.d	CCB16	CCB	1	01/11/24 8:30 AM
A0110209.d	ICSA6	ICSA	1	01/11/24 8:35 AM
A0110210.d	ICSAB6	ICSAB	1	01/11/24 8:40 AM

INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110211.d	RINSE	ICAL	1	01/11/24 8:44 AM
A0110212.d	RINSE	ICAL	1	01/11/24 8:49 AM
A0110213.d	RINSE	ICAL	1	01/11/24 8:54 AM
A0110214.d	RINSE	ICAL	1	01/11/24 8:58 AM
A0110215.d	RINSE	ICAL	1	01/11/24 9:03 AM

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:09:41 AM

Reviewed/ Date: *JRB* 2/18/2024

Page: 1 of 1

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105923 Prep Code:3010_W_MS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-01-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105923	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105923	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062238-001C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-002C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-003C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001C-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001C-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240108A.b
Acq. Date-Time 2024-01-09 11:41:07
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

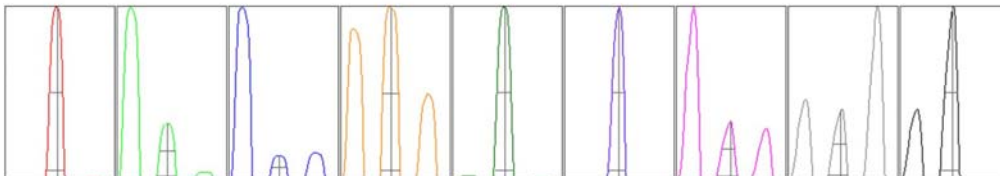
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9239	92393.25	500.00		2.854	5.000
24	10.00	22469	224694.60	500.00		2.407	5.000
25	10.00	3002	30022.35	500.00		2.214	5.000
26	10.00	3469	34686.40	500.00		2.672	5.000
59	10.00	30117	301169.32	500.00		2.364	5.000
115	10.00	31072	310721.73	500.00		3.175	5.000
206	10.00	7324	73242.98	500.00		2.646	5.000
207	10.00	6084	60841.23	500.00		2.466	5.000
208	10.00	15101	151010.22	500.00		2.405	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.555 %
Doubly Charged 70 / 140 1.023 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9352.02	8.95	8.90 - 9.10	
24	23119.90	23.90	23.90 - 24.10	
25	3048.57	24.90	24.90 - 25.10	
26	3466.63	25.90	25.90 - 26.10	
59	29073.59	58.95	58.90 - 59.10	
115	32216.14	115.00	114.90 - 115.10	
206	6770.60	206.00	205.90 - 206.10	
207	5768.60	206.95	206.90 - 207.10	
208	14485.73	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.42	0.536	0.900	
25	0.41	0.497	0.900	
26	0.44	0.539	0.900	
59	0.39	0.535	0.900	
115	0.34	0.481	0.900	
206	0.36	0.567	0.900	
207	0.36	0.541	0.900	
208	0.36	0.535	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2480 V Pulse HV 1547 V

[H2]

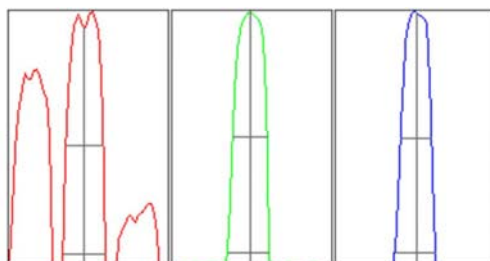
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		194	1943.11			8.565	
59		3135	31349.92			3.247	
115		27184	271842.07			2.017	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.397 %
 Doubly Charged 70 / 140 0.348 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	189.02	25.95	25.90 - 26.10	
59	3253.28	59.00	58.90 - 59.10	
115	27652.19	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.791	0.900	
59	0.65	0.782	0.900	
115	0.59	0.763	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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[He]

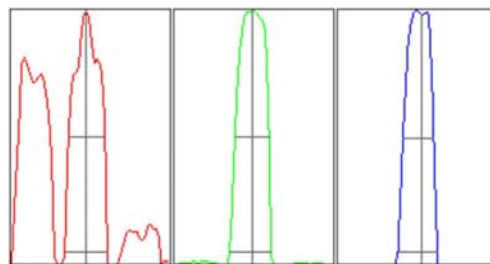
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		83	832.62			11.850	
59		5925	59251.70			2.328	
115		5022	50220.33			2.755	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.181 %
Doubly Charged	70 / 140 1.339 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	94.01	25.95	25.90 - 26.10	
59	5882.36	59.00	58.90 - 59.10	
115	5042.41	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.792	0.900	
59	0.64	0.781	0.900	
115	0.59	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240109A.b
Acq. Date-Time 2024-01-10 14:44:32
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

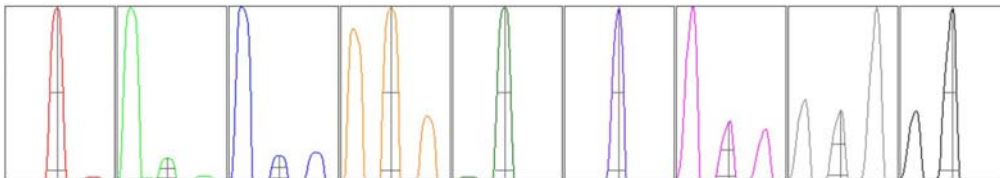
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7835	78351.98	500.00		2.421	5.000
24	10.00	22832	228321.85	500.00		1.897	5.000
25	10.00	3021	30214.09	500.00		2.365	5.000
26	10.00	3476	34760.54	500.00		2.032	5.000
59	10.00	31626	316255.39	500.00		1.722	5.000
115	10.00	36288	362875.79	500.00		1.996	5.000
206	10.00	6812	68123.84	500.00		2.273	5.000
207	10.00	5688	56877.47	500.00		2.644	5.000
208	10.00	14112	141124.17	500.00		2.266	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.424 %
Doubly Charged 70 / 140 1.095 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8141.37	8.95	8.90 - 9.10	
24	24008.88	23.90	23.90 - 24.10	
25	3204.12	24.90	24.90 - 25.10	
26	3664.31	25.90	25.90 - 26.10	
59	32348.62	58.95	58.90 - 59.10	
115	36959.15	115.00	114.90 - 115.10	
206	6925.59	205.95	205.90 - 206.10	
207	6097.17	206.95	206.90 - 207.10	
208	15227.39	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.526	0.900	
24	0.41	0.512	0.900	
25	0.41	0.495	0.900	
26	0.43	0.538	0.900	
59	0.39	0.532	0.900	
115	0.34	0.483	0.900	
206	0.36	0.541	0.900	
207	0.36	0.550	0.900	
208	0.35	0.559	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2483 V Pulse HV 1557 V

[H2]

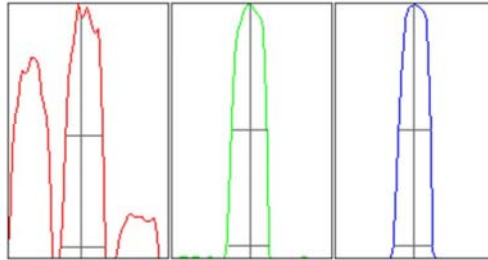
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		202	2020.72			6.618	
59		3575	35752.98			3.108	
115		32013	320128.10			1.914	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.317 %
 Doubly Charged 70 / 140 0.382 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	202.77	25.90	25.90 - 26.10	
59	3671.43	59.00	58.90 - 59.10	
115	32801.16	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.67	0.790	0.900	
115	0.61	0.740	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2483 V	Pulse HV	1557 V
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[He]

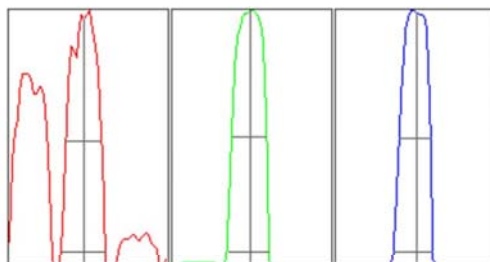
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		86	856.62			9.359	
59		6446	64460.79			2.073	
115		5966	59663.74			2.096	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.130 %
Doubly Charged	70 / 140 1.300 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	87.25	25.95	25.90 - 26.10	
59	6360.59	59.00	58.90 - 59.10	
115	6009.75	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.828	0.900	
59	0.66	0.789	0.900	
115	0.60	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2483 V	Pulse HV	1557 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240109A

Instrument ID: ICPMS-03

Analyte	Data File	A0109003.d	A0109005.d	A0109006.d	A0109007.d	A0109008.d	A0109009.d	A0109010.d	A0109011.d	R
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	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	36090	37411.9	37735.8	37947.5	37055.4	37742.5	37015.4	37544.3	
55 Mn [2]	CPS	65.5	636.4	6435.2	12883.8	25612.7	51717	126984.3	265390.4	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240110A

Instrument ID: ICPMS-03

Analyte	Data File	A0110003.d	A0110005.d	A0110006.d	A0110007.d	A0110008.d	A0110009.d	A0110010.d	A0110011.d	
	Acq. Date-Time	01/10/2024 04:33 PM	01/10/2024 04:42 PM	01/10/2024 04:47 PM	01/10/2024 04:52 PM	01/10/2024 04:57 PM	01/10/2024 05:01 PM	01/10/2024 05:06 PM	01/10/2024 05:11 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	37633.4	37141.2	37617.8	37787.1	39642.5	39526.6	39222.6	38465.3	
55 Mn [2]	CPS	200	693.1	6688.8	13798.7	29021.5	58534.8	144038.7	290130.2	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613712							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	99.982	0.50	100.0	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ZZZZZ	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613714							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.483	0.50	0.5000	0	96.7	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613715							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.921	0.50	20.00	0	99.6	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613727							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.392	0.50	20.00	0	97.0	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613738							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.565	0.50	20.00	0	97.8	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613744							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.306	0.50	20.00	0	102	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613758							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.503	0.50	20.00	0	103	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613762							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.721	0.50	20.00	0	104	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613774							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.693	0.50	20.00	0	103	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613787							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.267	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613798							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.592	0.50	20.00	0	103	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613808							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.608	0.50	20.00	0	103	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613822							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.372	0.50	20.00	0	102	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.175	0.50	20.00	0	101	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613840							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.650	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCV13	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5613853							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.340	0.50	20.00	0	102	90	110				

Sample ID: CCV14	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCV	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5613861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.147	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: ICV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616347	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	98.858	0.50	100.0	0	98.9	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: ZZZZZ	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616349	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	0.432	0.50	0.5000	0	86.4	80	120				
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Sample ID: MLCCV	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616350	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.246	0.50	20.00	0	96.2	90	110				
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Sample ID: CCV1	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616365	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.270	0.50	20.00	0	96.3	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616375	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	18.630	0.50	20.00	0	93.1	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616387	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	18.838	0.50	20.00	0	94.2 90 110

Sample ID: CCV4	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616399	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	18.929	0.50	20.00	0	94.6 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616411	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	19.134	0.50	20.00	0	95.7 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCV	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616420	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	18.921	0.50	20.00	0	94.6 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613728						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613759						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613763						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.035	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613788						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: CCB8	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.045	0.50									

Sample ID: CCB9	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613809						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.028	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: CCB12	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613841						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: CCB13	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5613854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: CCB14	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: CCB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5613862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.027	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616376						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616400						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062239
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616412	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB6	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288
Client ID: CCB	Batch ID: R180288	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616421	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	20.750	0.50	20.00	0	104	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613746							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613746							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	20.327	0.50	20.00	0	102	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613776							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255
Client ID: ICSAB	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613777	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 20.834 0.50 20.00 0 104 80 120

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613810	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255
Client ID: ICSAB	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613811	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 20.790 0.50 20.00 0 104 80 120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613842	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255
Client ID: ICSAB	Batch ID: R180255	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613843	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 20.777 0.50 20.00 0 104 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSA	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5613863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50
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Sample ID: ICSAB6	SampType: ICSAB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180255						
Client ID: ICSAB	Batch ID: R180255	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5613864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	20.101	0.50	20.00	0	101	80	120
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSA	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSA	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 20.363 0.50 20.00 0 102 80 120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSA	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616377						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSA	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616378						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 19.919 0.50 20.00 0 99.6 80 120

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSA	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ICSAB	Batch ID: R180288	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.251	0.50	20.00	0	96.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	36090	36090	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	37693.6	36090	104.44	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	37411.9	36090	103.66	PASS	30-150
Std3-5/50 ppb	ICAL	1	37735.8	36090	104.56	PASS	30-150
Std4-10/100 ppb	ICAL	1	37947.5	36090	105.15	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	37055.4	36090	102.67	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	37742.5	36090	104.58	PASS	30-150
Std7-100/1000 ppb	ICAL	1	37015.4	36090	102.56	PASS	30-150
Std8-200/2000 ppb	ICAL	1	37544.3	36090	104.03	PASS	30-150
ICV	ICV	1	37963	36090	105.19	PASS	30-150
ICB	ICB	1	36768.2	36090	101.88	PASS	30-150
LLICV1	CCV1	1	37474.2	36090	103.84	PASS	30-150
MLCCV	CCV	1	37252.5	36090	103.22	PASS	30-150
ICSA1	ICSA	1	36713.6	36090	101.73	PASS	30-150
ICSAB1	ICSAB	1	36043.3	36090	99.87	PASS	30-150
CCV1	CCV	1	36464.1	36090	101.04	PASS	30-150
CCB1	CCB	1	34766.1	36090	96.33	PASS	30-150
CCV2	CCV	1	34842.9	36090	96.54	PASS	30-150
CCB2	CCB	1	33454.5	36090	92.7	PASS	30-150
CCV3	CCV	1	32513.8	36090	90.09	PASS	30-150
CCB3	CCB	1	30466.6	36090	84.42	PASS	30-150
ICSA2	ICSA	1	32353.5	36090	89.65	PASS	30-150
ICSAB2	ICSAB	1	31742.3	36090	87.95	PASS	30-150
CCV4	CCV	1	31199.1	36090	86.45	PASS	30-150
CCB4	CCB	1	29804.3	36090	82.58	PASS	30-150
CCV5	CCV	1	30544.5	36090	84.63	PASS	30-150
CCB5	CCB	1	29206.6	36090	80.93	PASS	30-150
CCV6	CCV	1	34532.3	36090	95.68	PASS	30-150
CCB6	CCB	1	32179.8	36090	89.17	PASS	30-150
ICSA3	ICSA	1	33848.6	36090	93.79	PASS	30-150
ICSAB3	ICSAB	1	34614.7	36090	95.91	PASS	30-150
CCV7	CCV	1	34245	36090	94.89	PASS	30-150
CCB7	CCB	1	32078.5	36090	88.88	PASS	30-150
CCV8	CCV	1	33009.2	36090	91.46	PASS	30-150
CCB8	CCB	1	31357.2	36090	86.89	PASS	30-150
CCV9	CCV	1	32549.5	36090	90.19	PASS	30-150
CCB9	CCB	1	31282.6	36090	86.68	PASS	30-150
ICSA4	ICSA	1	33275.3	36090	92.2	PASS	30-150
ICSAB4	ICSAB	1	33217.4	36090	92.04	PASS	30-150
CCV10	CCV	1	33207.4	36090	92.01	PASS	30-150
CCB10	CCB	1	31745.7	36090	87.96	PASS	30-150

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV11	CCV	1	33506.9	36090	92.84	PASS	30-150
CCB11	CCB	1	31330.4	36090	86.81	PASS	30-150
CCV12	CCV	1	32455.9	36090	89.93	PASS	30-150
CCB12	CCB	1	30889.6	36090	85.59	PASS	30-150
ICSA5	ICSA	1	33017	36090	91.49	PASS	30-150
ICSAB5	ICSAB	1	32478.2	36090	89.99	PASS	30-150
MB-105923	MBLK	1	29373.6	36090	81.39	PASS	30-150
LCS-105923	LCS	1	30549	36090	84.65	PASS	30-150
N062238-001C	SAMP	1	27532.7	36090	76.29	PASS	30-150
N062238-002C	SAMP	1	28036.8	36090	77.69	PASS	30-150
N062238-003C	SAMP	1	27366.8	36090	75.83	PASS	30-150
N062239-001C	SAMP	1	28516.5	36090	79.02	PASS	30-150
N062239-001C	SAMP	5	28515.4	36090	79.01	PASS	30-150
N062239-001C	SAMP	10	28893.9	36090	80.06	PASS	30-150
N062239-001C	SAMP	50	29107.6	36090	80.65	PASS	30-150
CCV13	CCV	1	32776.5	36090	90.82	PASS	30-150
CCB13	CCB	1	31467.4	36090	87.19	PASS	30-150
N062239-001C-PS	PS	1	28423.1	36090	78.76	PASS	30-150
N062239-001C-PS	PS	10	28630.1	36090	79.33	PASS	30-150
N062239-001C-MS	MS	1	27409.2	36090	75.95	PASS	30-150
N062239-001C-MS	MS	10	28781.4	36090	79.75	PASS	30-150
N062239-001C-MSD	MSD	1	28252.8	36090	78.28	PASS	30-150
N062239-001C-MSD	MSD	10	29034.1	36090	80.45	PASS	30-150
CCV14	CCV	1	32255.5	36090	89.38	PASS	30-150
CCB14	CCB	1	30697.1	36090	85.06	PASS	30-150
ICSA6	ICSA	1	32639.6	36090	90.44	PASS	30-150
ICSAB6	ICSAB	1	32592.9	36090	90.31	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	37633.4	37633.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	37629	37633.4	99.99	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	37141.2	37633.4	98.69	PASS	30-150
Std3-5/50 ppb	ICAL	1	37617.8	37633.4	99.96	PASS	30-150
Std4-10/100 ppb	ICAL	1	37787.1	37633.4	100.41	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	39642.5	37633.4	105.34	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	39526.6	37633.4	105.03	PASS	30-150
Std7-100/1000 ppb	ICAL	1	39222.6	37633.4	104.22	PASS	30-150
Std8-200/2000 ppb	ICAL	1	38465.3	37633.4	102.21	PASS	30-150
ICV	ICV	1	37493.1	37633.4	99.63	PASS	30-150
ICV	ICV	1	37647.9	37633.4	100.04	PASS	30-150
ICB	ICB	1	37468.6	37633.4	99.56	PASS	30-150
LLICV1	LLICV	1	37683.5	37633.4	100.13	PASS	30-150
MLCCV	CCV	1	37690.2	37633.4	100.15	PASS	30-150
ICSA1	ICSA	1	37120	37633.4	98.64	PASS	30-150
ICSAB1	ICSAB	1	36598.8	37633.4	97.25	PASS	30-150
LLICV1	LLICV	1	36676.8	37633.4	97.46	PASS	30-150
CCV1	CCV	1	42184.2	37633.4	112.09	PASS	30-150
CCB1	CCB	1	43138.9	37633.4	114.63	PASS	30-150
CCV2	CCV	1	41056.9	37633.4	109.1	PASS	30-150
CCB2	CCB	1	40321.9	37633.4	107.14	PASS	30-150
ICSA2	ICSA	1	40407.6	37633.4	107.37	PASS	30-150
ICSAB2	ICSAB	1	40287.3	37633.4	107.05	PASS	30-150
CCV3	CCV	1	48244.9	37633.4	128.2	PASS	30-150
CCB3	CCB	1	48014.4	37633.4	127.58	PASS	30-150
CCV4	CCV	1	46281.6	37633.4	122.98	PASS	30-150
CCB4	CCB	1	45079.5	37633.4	119.79	PASS	30-150
N062239-001C	SAMP	100	44152.6	37633.4	117.32	PASS	30-150
N062239-001C	SAMP	500	46636	37633.4	123.92	PASS	30-150
N062239-001C-PS	PS	100	45192	37633.4	120.09	PASS	30-150
N062239-001C-MS	MS	100	45384.8	37633.4	120.6	PASS	30-150
CCV5	CCV	1	45247.7	37633.4	120.23	PASS	30-150
CCB5	CCB	1	43963.3	37633.4	116.82	PASS	30-150
N062239-001C-MSD	MSD	100	42089.5	37633.4	111.84	PASS	30-150
CCV6	CCV	1	46708.3	37633.4	124.11	PASS	30-150
CCB6	CCB	1	45057.2	37633.4	119.73	PASS	30-150
ICSA3	ICSA	1	44600.4	37633.4	118.51	PASS	30-150
ICSAB3	ICSAB	1	44540.3	37633.4	118.35	PASS	30-150
CCV7	CCV	1	42057.3	37633.4	111.76	PASS	30-150
CCB7	CCB	1	39850.7	37633.4	105.89	PASS	30-150
CCV8	CCV	1	36179.1	37633.4	96.14	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB8	CCB	1	35121.3	37633.4	93.32	PASS	30-150
CCV9	CCV	1	36411.8	37633.4	96.75	PASS	30-150
CCB9	CCB	1	36509.9	37633.4	97.02	PASS	30-150
ICSA4	ICSA	1	36490.9	37633.4	96.96	PASS	30-150
ICSAB4	ICSAB	1	37191.4	37633.4	98.83	PASS	30-150
CCV10	CCV	1	37053.2	37633.4	98.46	PASS	30-150
CCB10	CCB	1	36448.5	37633.4	96.85	PASS	30-150
CCV11	CCV	1	36906.2	37633.4	98.07	PASS	30-150
CCB11	CCB	1	36880.6	37633.4	98	PASS	30-150
CCV12	CCV	1	33647.2	37633.4	89.41	PASS	30-150
CCB12	CCB	1	33177.3	37633.4	88.16	PASS	30-150
ICSA5	ICSA	1	32801.1	37633.4	87.16	PASS	30-150
ICSAB5	ICSAB	1	32866.7	37633.4	87.33	PASS	30-150
CCV13	CCV	1	36205.8	37633.4	96.21	PASS	30-150
CCB13	CCB	1	35916.3	37633.4	95.44	PASS	30-150
CCV14	CCV	1	32936.9	37633.4	87.52	PASS	30-150
CCB14	CCB	1	31892.7	37633.4	84.75	PASS	30-150
CCV15	CCV	1	34767.2	37633.4	92.38	PASS	30-150
CCB15	CCB	1	33539.2	37633.4	89.12	PASS	30-150
CCV16	CCV	1	32264.5	37633.4	85.73	PASS	30-150
CCB16	CCB	1	31795.8	37633.4	84.49	PASS	30-150
ICSA6	ICSA	1	31911.5	37633.4	84.8	PASS	30-150
ICSAB6	ICSAB	1	31762.4	37633.4	84.4	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062239
Test Method: EPA 6020
Analysis Date: 1/10/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105923

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test for Mn failed. However, PS passed criteria.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062239-001C DT 500x	Manganese	Mn	µg/L	635.1229	FAIL	844.458	24.79%	10

Reviewed by:

 2/18/2024

Note: NA - Not Applicable

01/26/24 15:54

DT_EPA 6020_N062239_105923

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062239
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID: N062239-001C-PS	SampType: PS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 180288						
Client ID: ZZZZZZ	Batch ID: 105923	TestNo: EPA 6020 EPA 3010A	Analysis Date: 1/10/2024	SeqNo: 5616409							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	10711.279	50	10000	844.5	98.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



ASSET LABORATORIES
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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 499835
Report Level: II
Report Date: 01/31/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N062240

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499835
 Location: N062240
 Date Received: 01/12/24

Sample ID	Lab ID	Collected	Matrix
N062240-001A/MW-76-039-0124	499835-001	01/08/24 12:42	Water
N062240-002A/MW-76-156-0124	499835-002	01/08/24 13:21	Water
N062240-003A/MW-76-181-0124	499835-003	01/08/24 14:01	Water
N062240-004A/MW-76-218-0124	499835-004	01/08/24 14:41	Water
N062240-005A/MW-77-046-0124	499835-005	01/08/24 12:39	Water
N062240-006A/MW-77-102-0124	499835-006	01/08/24 14:37	Water
N062240-007A/MW-77-158-0124	499835-007	01/08/24 14:00	Water
N062240-008A/MW-77-187-0124	499835-008	01/08/24 13:17	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job 499835
Number:
Location: N062240
Date Received: 01/12/24

This data package contains sample and QC results for eight water samples, requested for the above referenced project on 01/12/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

- Level II is also requested.
- No analytical problems were encountered.

499835

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.alf-labs.com
 TEL: 7023072659 FAX: 7023072691

QC Level: Level IV
 Field Sampler: Riggle Tep
 10-Jan-24

Subcontractor:
 Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868
 TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				SM5310B	
N062240-001A / MW-76-039-0124	Groundwater	1/8/2024 12:42:00 PM	8OZA	1	
N062240-002A / MW-76-156-0124	Groundwater	1/8/2024 1:21:00 PM	8OZA	1	
N062240-003A / MW-76-181-0124	Groundwater	1/8/2024 2:01:00 PM	8OZA	1	
N062240-004A / MW-76-218-0124	Groundwater	1/8/2024 2:41:00 PM	8OZA	1	
N062240-005A / MW-77-046-0124	Groundwater	1/8/2024 12:39:00 PM	8OZA	1	
N062240-006A / MW-77-102-0124	Groundwater	1/8/2024 2:37:00 PM	8OZA	1	
N062240-007A / MW-77-158-0124	Groundwater	1/8/2024 2:00:00 PM	8OZA	1	
N062240-008A / MW-77-187-0124	Groundwater	1/8/2024 1:17:00 PM	8OZA	1	MSMSD

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#:N62240A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call
 Marton at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT
 Please analyze for TOC by SM5310B. EDD requiremnt Labspec7 edata.

GLS#: 560764505

Relinquished by: <u>E. Fanejot</u>	Date/Time: <u>1/10/2024 1630</u>
Received by: <u>[Signature]</u>	Date/Time: <u>1/12/24 1015</u>
Relinquished by:	Date/Time:
Received by:	Date/Time:



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Asset Laboratories Project: N62240A
 Date Received: 1/12/24 Sampler's Name Present: Yes No


Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 4.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By:  Date: 1/12/24

Analysis Results for 499835

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499835
 Location: N062240
 Date Received: 01/12/24

Sample ID: N062240-001A/MW-76-039-0124 **Lab ID:** 499835-001 **Collected:** 01/08/24 12:42
Matrix: Water

499835-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-002A/MW-76-156-0124 **Lab ID:** 499835-002 **Collected:** 01/08/24 13:21
Matrix: Water

499835-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-003A/MW-76-181-0124 **Lab ID:** 499835-003 **Collected:** 01/08/24 14:01
Matrix: Water

499835-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.2		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-004A/MW-76-218-0124 **Lab ID:** 499835-004 **Collected:** 01/08/24 14:41
Matrix: Water

499835-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.1		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-005A/MW-77-046-0124 **Lab ID:** 499835-005 **Collected:** 01/08/24 12:39
Matrix: Water

499835-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	7.1		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-006A/MW-77-102-0124 **Lab ID:** 499835-006 **Collected:** 01/08/24 14:37
Matrix: Water

499835-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.4		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Analysis Results for 499835

Sample ID: N062240-007A/MW-77-158-0124	Lab ID: 499835-007 Matrix: Water	Collected: 01/08/24 14:00
--	---	----------------------------------

499835-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.1		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Sample ID: N062240-008A/MW-77-187-0124	Lab ID: 499835-008 Matrix: Water	Collected: 01/08/24 13:17
--	---	----------------------------------

499835-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.5		mg/L	1.0	1	330622	01/16/24	01/17/24	EPL

Batch QC

Type: Blank	Lab ID: QC1120619	Batch: 330622
Matrix: Water	Method: SM 5310B	

QC1120619 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	01/16/24	01/17/24

Type: Lab Control Sample	Lab ID: QC1120620	Batch: 330622
Matrix: Water	Method: SM 5310B	

QC1120620 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.04	25.00	mg/L	96%		80-120

Type: Matrix Spike	Lab ID: QC1120621	Batch: 330622
Matrix (Source ID): Water (499835-008)	Method: SM 5310B	

QC1120621 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.76	2.531	25.00	mg/L	105%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1120622	Batch: 330622
Matrix (Source ID): Water (499835-008)	Method: SM 5310B	

QC1120622 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.59	2.531	25.00	mg/L	104%		80-120	1	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062241

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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3151 W. Post Rd., Las Vegas, NV 89118
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Table of Contents

ASSET Laboratories Work Order: N062241

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EPA 6020_Dissolved	349-425



January 23, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062241

RE: PG&E Topock - PCM, 30121866

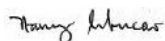
Attention: Dan Bush

Enclosed are the results for sample(s) received on January 08, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062241

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.



ASSET Laboratories

Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062241
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062241-001A	MW-76-039-0124	Groundwater	1/8/2024 12:42:00 PM	1/8/2024	1/23/2024
N062241-001B	MW-76-039-0124	Groundwater	1/8/2024 12:42:00 PM	1/8/2024	1/23/2024
N062241-001C	MW-76-039-0124	Groundwater	1/8/2024 12:42:00 PM	1/8/2024	1/23/2024
N062241-002A	MW-76-156-0124	Groundwater	1/8/2024 1:21:00 PM	1/8/2024	1/23/2024
N062241-002B	MW-76-156-0124	Groundwater	1/8/2024 1:21:00 PM	1/8/2024	1/23/2024
N062241-002C	MW-76-156-0124	Groundwater	1/8/2024 1:21:00 PM	1/8/2024	1/23/2024
N062241-003A	MW-76-181-0124	Groundwater	1/8/2024 2:01:00 PM	1/8/2024	1/23/2024
N062241-003B	MW-76-181-0124	Groundwater	1/8/2024 2:01:00 PM	1/8/2024	1/23/2024
N062241-003C	MW-76-181-0124	Groundwater	1/8/2024 2:01:00 PM	1/8/2024	1/23/2024
N062241-004A	MW-76-218-0124	Groundwater	1/8/2024 2:41:00 PM	1/8/2024	1/23/2024
N062241-004B	MW-76-218-0124	Groundwater	1/8/2024 2:41:00 PM	1/8/2024	1/23/2024
N062241-004C	MW-76-218-0124	Groundwater	1/8/2024 2:41:00 PM	1/8/2024	1/23/2024
N062241-005A	EB-701-Q124	Groundwater	1/8/2024 2:50:00 PM	1/8/2024	1/23/2024
N062241-006A	MW-77-046-0124	Groundwater	1/8/2024 12:39:00 PM	1/8/2024	1/23/2024
N062241-006B	MW-77-046-0124	Groundwater	1/8/2024 12:39:00 PM	1/8/2024	1/23/2024
N062241-006C	MW-77-046-0124	Groundwater	1/8/2024 12:39:00 PM	1/8/2024	1/23/2024
N062241-007A	MW-77-102-0124	Groundwater	1/8/2024 2:37:00 PM	1/8/2024	1/23/2024
N062241-007B	MW-77-102-0124	Groundwater	1/8/2024 2:37:00 PM	1/8/2024	1/23/2024
N062241-007C	MW-77-102-0124	Groundwater	1/8/2024 2:37:00 PM	1/8/2024	1/23/2024
N062241-008A	MW-77-158-0124	Groundwater	1/8/2024 2:00:00 PM	1/8/2024	1/23/2024
N062241-008B	MW-77-158-0124	Groundwater	1/8/2024 2:00:00 PM	1/8/2024	1/23/2024
N062241-008C	MW-77-158-0124	Groundwater	1/8/2024 2:00:00 PM	1/8/2024	1/23/2024
N062241-009A	MW-77-187-0124	Groundwater	1/8/2024 1:17:00 PM	1/8/2024	1/23/2024
N062241-009B	MW-77-187-0124	Groundwater	1/8/2024 1:17:00 PM	1/8/2024	1/23/2024
N062241-009C	MW-77-187-0124	Groundwater	1/8/2024 1:17:00 PM	1/8/2024	1/23/2024
N062241-010A	EB-702-Q124	Groundwater	1/8/2024 2:50:00 PM	1/8/2024	1/23/2024



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-001

Client Sample ID: MW-76-039-0124
Collection Date: 1/8/2024 12:42:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	8.1	0.039	0.20	µg/L	1	1/9/2024 11:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-002

Client Sample ID: MW-76-156-0124
Collection Date: 1/8/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233				PrepDate:		Analyst: RAB
Hexavalent Chromium	9.1	0.19	1.0		µg/L	5	1/9/2024 09:44 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-003

Client Sample ID: MW-76-181-0124
Collection Date: 1/8/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233				PrepDate:		Analyst: RAB
Hexavalent Chromium	1.4	0.19	1.0		µg/L	5	1/9/2024 10:03 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-004

Client Sample ID: MW-76-218-0124
Collection Date: 1/8/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233				PrepDate:		Analyst: RAB
Hexavalent Chromium	18	0.19	1.0		µg/L	5	1/9/2024 02:15 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-005

Client Sample ID: EB-701-Q124
Collection Date: 1/8/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/9/2024 09:02 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-006

Client Sample ID: MW-77-046-0124
Collection Date: 1/8/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/9/2024 10:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-007

Client Sample ID: MW-77-102-0124
Collection Date: 1/8/2024 2:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	1.6	0.039	0.20	µg/L	1	1/9/2024 02:44 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-008

Client Sample ID: MW-77-158-0124
Collection Date: 1/8/2024 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/11/2024 02:09 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-009

Client Sample ID: MW-77-187-0124
Collection Date: 1/8/2024 1:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/9/2024 12:47 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CALIFORNIA | P:562.219.7435 F:562.219.7436
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EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP Cert 4046 (EPA TO15 & TO3)

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-010

Client Sample ID: EB-702-Q124
Collection Date: 1/8/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240109A	QC Batch: R180233			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/9/2024 09:21 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180233	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: PBW	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612067
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID LCS-R180233	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: LCSW	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.739	0.20	5.000	0	94.8 90 110

Sample ID N062242-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612070
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.797	0.20			1.823 1.44 20

Sample ID N062242-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612071
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	2.766	0.20	1.000	1.823	94.3 90 110

Sample ID N062241-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612073
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.015	0.20	1.000	0	102 90 110

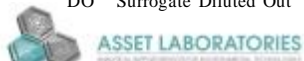
Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062241-009AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612076							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.089	0.20	1.000	0	109	90	110	1.015	6.99	20	

Sample ID N062241-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612078							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.080	1.0	25.00	17.62	97.9	90	110				

Sample ID N062241-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.631	0.20	1.000	1.553	108	90	110				

Sample ID N062242-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612085							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.849	0.20	1.000	1.832	102	90	110				

Sample ID N062242-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612087							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.832	0.20	1.000	1.806	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062242-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.767	0.20	1.000	0.7621	100	90	110				

Sample ID N062242-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.739	0.20	1.000	0.7507	98.9	90	110				

Sample ID N062242-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.041	0.20	1.000	0	104	90	110				

Sample ID N062242-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612097						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.926	0.20	1.000	0.9472	97.8	90	110				

Sample ID N062241-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.011	0.20	1.000	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062241-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.066	0.20	1.000	0	107	90	110				

Sample ID N062241-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.127	1.0	5.000	9.112	100	90	110				

Sample ID N062241-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.391	1.0	5.000	1.400	99.8	90	110				

Sample ID N062241-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.099	1.0	5.000	0	102	90	110				

Sample ID N062241-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612115						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.203	0.20	5.000	8.115	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180321	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: PBW	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID LCS-R180321	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: LCSW	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.103 0.20 5.000 0 102 90 110

Sample ID N062238-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.903 0.20 1.000 0 90.3 90 110

Sample ID N062238-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.172 0.20 1.000 0.1605 101 90 110

Sample ID N062238-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.476 0.20 1.000 0.4638 101 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062241-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.384	1.0	5.000	0	108	90	110				
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Sample ID N062272-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	141.974	4.0	100.0	44.31	97.7	90	110				
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Sample ID N062272-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	141.848	4.0	100.0	43.51	98.3	90	110				
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Sample ID N062272-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618133						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.163	0.20	1.000	0.1580	100	90	110				
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Sample ID N062272-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618135						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.984	0.20	1.000	0	98.4	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-009ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.410	4.0						44.31	4.38	20	

Sample ID N062272-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.950	0.20	1.000	0	95.0	90	110				

Sample ID N062272-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.002	0.20	1.000	0	100	90	110				

Sample ID N062272-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.019	0.20	1.000	0	102	90	110				

Sample ID N062272-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.026	0.20	1.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618155							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	38.293	1.0	25.00	13.88	97.7	90	110				

Sample ID N062272-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618157							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.091	0.20	5.000	7.987	102	90	110				

Sample ID N062272-009AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5644538							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	136.592	4.0	100.0	44.31	92.3	90	110	142.0	3.86	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-001

Client Sample ID: MW-76-039-0124
Collection Date: 1/8/2024 12:42:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Sulfate	390	17	25		mg/L	50	1/9/2024 03:53 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 12:03 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-002

Client Sample ID: MW-76-156-0124
Collection Date: 1/8/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Sulfate	700	17	25		mg/L	50	1/9/2024 04:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Nitrate as N	1.2	0.24	0.50		mg/L	10	1/9/2024 12:18 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-003

Client Sample ID: MW-76-181-0124
Collection Date: 1/8/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Sulfate	450	17	25		mg/L	50	1/9/2024 04:54 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 12:34 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-004

Client Sample ID: MW-76-218-0124
Collection Date: 1/8/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Sulfate	560	17	25		mg/L	50	1/9/2024 05:09 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 12:49 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-006

Client Sample ID: MW-77-046-0124
Collection Date: 1/8/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Sulfate	890	34	50		mg/L	100	1/9/2024 05:24 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 01:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-007

Client Sample ID: MW-77-102-0124
Collection Date: 1/8/2024 2:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Sulfate	600	17	25		mg/L	50	1/9/2024 05:40 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Nitrate as N	0.89	0.24	0.50		mg/L	10	1/9/2024 01:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-008

Client Sample ID: MW-77-158-0124
Collection Date: 1/8/2024 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Sulfate	370	17	25		mg/L	50	1/9/2024 05:55 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 02:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-009

Client Sample ID: MW-77-187-0124
Collection Date: 1/8/2024 1:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Sulfate	290	17	25		mg/L	50	1/9/2024 03:07 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240109A	QC Batch: R180206						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/9/2024 11:48 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R180206_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180206			
Client ID:	PBW	Batch ID:	R180206	TestNo:	EPA 300.0			Analysis Date:	1/9/2024	SeqNo:	5611423			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND		0.50										

Sample ID	LCS-R180206_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180206			
Client ID:	LCSW	Batch ID:	R180206	TestNo:	EPA 300.0			Analysis Date:	1/9/2024	SeqNo:	5611424			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		4.016		0.50	4.000	0		100	90	110				

Sample ID	N062241-009BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180206			
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0			Analysis Date:	1/9/2024	SeqNo:	5611428			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		484.905		25	200.0	285.7		99.6	80	120				

Sample ID	N062241-009BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180206			
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0			Analysis Date:	1/9/2024	SeqNo:	5611429			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		477.995		25	200.0	285.7		96.1	80	120	484.9	1.44	20	

Sample ID	N062241-001BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180206			
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0			Analysis Date:	1/9/2024	SeqNo:	5611439			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		388.170		25							387.6	0.137	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062241
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	MB-R180206_NO3	SampType:	MBLK	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	180206		
Client ID:	PBW	Batch ID:	R180206	TestNo:	EPA 300.0	Analysis Date:			1/9/2024	SeqNo:	5611398		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Sample ID	LCS-R180206_NO3	SampType:	LCS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	180206		
Client ID:	LCSW	Batch ID:	R180206	TestNo:	EPA 300.0	Analysis Date:			1/9/2024	SeqNo:	5611399		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	1.243	0.050	1.250	0	99.5	90	110
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Sample ID	N062241-009BMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	180206		
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0	Analysis Date:			1/9/2024	SeqNo:	5611412		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	12.562	0.50	12.50	0	100	80	120
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Sample ID	N062241-009BMSD	SampType:	MSD	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	180206		
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0	Analysis Date:			1/9/2024	SeqNo:	5611413		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	12.338	0.50	12.50	0	98.7	80	120	12.56	1.80	20
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Sample ID	N062243-002BDUP	SampType:	DUP	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	180206		
Client ID:	ZZZZZ	Batch ID:	R180206	TestNo:	EPA 300.0	Analysis Date:			1/9/2024	SeqNo:	5611414		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	1.592	0.25						1.657	4.03	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-001

Client Sample ID: MW-76-039-0124
Collection Date: 1/8/2024 12:42:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ
Iron	28	13	20	µg/L	1	1/10/2024 02:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-002

Client Sample ID: MW-76-156-0124
Collection Date: 1/8/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/10/2024 02:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-003

Client Sample ID: MW-76-181-0124
Collection Date: 1/8/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ	
Iron	24	13	20	µg/L	1	1/10/2024 02:16 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-004

Client Sample ID: MW-76-218-0124
Collection Date: 1/8/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/10/2024 02:22 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-006

Client Sample ID: MW-77-046-0124
Collection Date: 1/8/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ	
Iron	250	13	20	µg/L	1	1/10/2024 02:27 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-007

Client Sample ID: MW-77-102-0124
Collection Date: 1/8/2024 2:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ
Iron	39	13	20	µg/L	1	1/10/2024 02:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-008

Client Sample ID: MW-77-158-0124
Collection Date: 1/8/2024 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ
Iron	54	13	20	µg/L	1	1/10/2024 02:46 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-009

Client Sample ID: MW-77-187-0124
Collection Date: 1/8/2024 1:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240110A	QC Batch: 105920			PrepDate: 1/9/2024		Analyst: DJ
Iron	35	13	20	µg/L	1	1/10/2024 02:52 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-105920	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: PBW	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612376
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID LCS-105920	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: LCSW	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612377
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	106.694	20	100.0	0	107 85 115

Sample ID N062241-009CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: ZZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612391
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	120.933	20	100.0	34.53	86.4 75 125

Sample ID N062241-009CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180241
Client ID: ZZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/10/2024	SeqNo: 5612392
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	121.056	20	100.0	34.53	86.5 75 125 120.9 0.102 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-001

Client Sample ID: MW-76-039-0124
Collection Date: 1/8/2024 12:42:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024	10:08 PM
Barium	150	0.083	1.0	µg/L	1	1/9/2024	10:08 PM
Manganese	ND	0.026	0.50	µg/L	1	1/9/2024	10:08 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-002

Client Sample ID: MW-76-156-0124
Collection Date: 1/8/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024	10:12 PM
Barium	48	0.083	1.0	µg/L	1	1/9/2024	10:12 PM
Manganese	31	0.026	0.50	µg/L	1	1/9/2024	10:12 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-003

Client Sample ID: MW-76-181-0124
Collection Date: 1/8/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024	10:17 PM
Barium	33	0.083	1.0	µg/L	1	1/9/2024	10:17 PM
Manganese	51	0.026	0.50	µg/L	1	1/9/2024	10:17 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-004

Client Sample ID: MW-76-218-0124
Collection Date: 1/8/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	2.0	0.050	0.10	µg/L	1	1/11/2024 04:01 PM	
Barium	36	0.083	1.0	µg/L	1	1/9/2024 10:22 PM	
Manganese	42	0.026	0.50	µg/L	1	1/9/2024 10:22 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-006

Client Sample ID: MW-77-046-0124
Collection Date: 1/8/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024 10:26 PM	
Barium	120	0.083	1.0	µg/L	1	1/9/2024 10:26 PM	
Manganese	610	0.26	5.0	µg/L	10	1/11/2024 04:06 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-007

Client Sample ID: MW-77-102-0124
Collection Date: 1/8/2024 2:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024	10:31 PM
Barium	53	0.083	1.0	µg/L	1	1/9/2024	10:31 PM
Manganese	27	0.026	0.50	µg/L	1	1/9/2024	10:31 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-008

Client Sample ID: MW-77-158-0124
Collection Date: 1/8/2024 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/9/2024	10:36 PM
Barium	39	0.083	1.0	µg/L	1	1/9/2024	10:36 PM
Manganese	36	0.026	0.50	µg/L	1	1/9/2024	10:36 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 23-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062241
Project: PG&E Topock - PCM, 30121866
Lab ID: N062241-009

Client Sample ID: MW-77-187-0124
Collection Date: 1/8/2024 1:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240109F	QC Batch:	105924	PrepDate:	1/9/2024	Analyst:	DJ
Arsenic	2.6	0.050	0.10	µg/L	1	1/9/2024	10:54 PM
Barium	27	0.083	1.0	µg/L	1	1/9/2024	10:54 PM
Manganese	36	0.026	0.50	µg/L	1	1/9/2024	10:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-105924	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: PBW	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613215
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID LCS-105924	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: LCSW	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613216
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	9.644	0.10	10.00	0	96.4	85	115
Barium	10.763	1.0	10.00	0	108	85	115
Manganese	100.372	0.50	100.0	0	100	85	115

Sample ID N062241-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: ZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613241
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	12.587	0.10	10.00	2.592	100	75	125
Barium	37.043	1.0	10.00	27.04	100	75	125
Manganese	128.285	0.50	100.0	36.15	92.1	75	125

Sample ID N062241-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/9/2024	RunNo: 180250
Client ID: ZZZZZ	Batch ID: 105924	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/9/2024	SeqNo: 5613242
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	12.655	0.10	10.00	2.592	101	75	125	12.59	0.534	20
Barium	36.539	1.0	10.00	27.04	95.0	75	125	37.04	1.37	20
Manganese	128.466	0.50	100.0	36.15	92.3	75	125	128.3	0.141	20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691
 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Page 1 of 1

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement				QA/QC		Sample Receipt Condition		
Address: 101 Creekside Ridge Court, Suite 200 Roseville, CA 95678		Company: Arcadis		Address:		Excel EDD	RTNE	Geotracker	RWQCB	CalTrans	LEVEL III	LEVEL IV	1. Chilled	
Phone: 916-786-3302		Email: dan.bush@arcadis.com daniel.moore@brittwin.com		Address:		LabSpec	LEVEL III	Others	LEVEL IV	Regulatory	Regulatory	5. IR number	2. Headspace	
Submitted By: <i>Ruggie Top</i>		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@plivox.com		Specify: RWQCB		Global ID:		Specify State:		6. Method of Cooling:	3. Container Intact	
Title: <i>Field Tech</i>		Phone: 916-786-3302		Phone: 949-727-1400, ext 200		P.O.#		Fax:		Sample Temp: <i>ICE</i>		4. Seal Present		
Signature: <i>[Signature]</i> Date: <i>01/08/24</i>		Sampled By: <i>[Signature]</i>		Matrix		250 mL poly		1 L poly		500mL poly		5. IR number		
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Ground		X Sediment		Potable		Soil		6. Method of Cooling:		
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i> Date: <i>01/08/24</i>		NPDES		Other Solid		Surface		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		7. Method of Cooling:		
Project Number: 30121866				Surface								8. Method of Cooling:		
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Nitrate, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum	Total Organic Carbon (SM5310C); H2SO4	Ammonia as Nitrogen (SM4500NH3D); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Nitrate (EPA 300.0)	Remarks
1	N062241-001	✓ MW-76-039-0124	1/8/2024	12:42		X	X	X						E 3 P BNS
2	-002	✓ MW-76-156-0124	1/8/2024	13:21		X	X	X						E 3 P BNS
3	-003	✓ MW-76-181-0124	1/8/2024	14:01		X	X	X						E 3 P BNS
4	-004	✓ MW-76-218-0124	1/8/2024	14:41		X	X	X						E 3 P BNS
5	-005	✓ EB-701-Q124	1/8/2024	14:50		X	X	X						E 1 P BNS
6	-006	✓ MW-77-046-0124	1/8/2024	12:39		X	X	X						E 3 P BNS
7	-007	✓ MW-77-102-0124	1/8/2024	14:37		X	X	X						E 3 P BNS
8	-008	✓ MW-77-158-0124	1/8/2024	14:00		X	X	X						E 3 P BNS
9	-009	✓ MW-77-187-0124	1/8/2024	13:17		X	X	X						E 3 P BNS
10	-010	✓ EB-702-Q124	1/8/2024	14:50		X	X	X						E 1 P BNS
11														
12														
13														
14														
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>01/08/24 1540</i>			Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/8/24 1540</i>			Turn Around Time (TAT)				Special Instruction:				
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/8/24 1827</i>			Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/8/24 1827</i>			<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays				TAT Starts at 8 AM the following day if samples received after 3:00PM.				
Terms			5. Trip Blanks and Equipment Blanks are billable sample.			Preservatives:				Container Type:				
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.			6. Asset Laboratories is not responsible for samples collected using incorrect methodology.			H=HCL				T=Tube				
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.			7. Terms are net 30 days.			N=HNO3				V=VOA				
3. Less than 24 hrs = 200% Next Days=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%			8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.			S=H2SO4				C=4°C				
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.			9. For subcontract analysis, TAT and Surcharges will vary.			Z=Zn(AC)2				J=Jar				
						O=NaOH				B=Tedlar				
						T=Na2S2O3				G=Glass				
						Others/Specify: B [(NH4)2SO4/NH4OH				M=Metal				
										C=Can				

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/8/2024 Workorder: N062241
 Rep sample Temp (Deg C): 2.4 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

For:
 Checklist Completed By: AIP *E Fanegof* 1/9/2024

for: *J. M. ...*
 Reviewed By: MBC 1/10/2024

ASSET Laboratories

WORK ORDER Summary

08-Jan-24

WorkOrder: N062241

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/8/2024 6:27 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062241-001A	MW-76-039-0124	1/8/2024 12:42:00 PM	1/23/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-001B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-001C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-002A	MW-76-156-0124	1/8/2024 1:21:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-002B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-002C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-003A	MW-76-181-0124	1/8/2024 2:01:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-003B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-003C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-004A	MW-76-218-0124	1/8/2024 2:41:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Jan-24

WorkOrder: N062241

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/8/2024 6:27 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062241-004B	MW-76-218-0124	1/8/2024 2:41:00 PM	1/23/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-004C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-005A	EB-701-Q124	1/8/2024 2:50:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-006A	MW-77-046-0124	1/8/2024 12:39:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-006B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-006C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-007A	MW-77-102-0124	1/8/2024 2:37:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-008A	MW-77-158-0124	1/8/2024 2:00:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-008B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-008C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Jan-24

WorkOrder: N062241

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/8/2024 6:27 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062241-009A	MW-77-187-0124	1/8/2024 1:17:00 PM	1/23/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062241-009B			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062241-009C			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062241-010A	EB-702-Q124	1/8/2024 2:50:00 PM	1/23/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062241-011A	FOLDER	1/23/2024	1/23/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/23/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/23/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062241

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R180233
ASSET #: N062241

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 1/9/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer NS 01152024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180321
 ASSET #: N062241

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 1/11/2024

Method:

- | | | | |
|-------------------------------------|-----------|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> | EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X	X		X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for N062241-08A due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer RB 01162024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062241-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 8.1146 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 8.1146$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 8.1$$

Reviewed by:

d/Rocha 1/24/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/09/24 10:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/09/24 10:30 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/09/24 10:39 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/09/24 10:48 AM	Reported
13	MB-R180233	MBLK	1	Hexavalent Chromium	01/09/24 10:58 AM	Reported
14	LCS-R180233	LCS	1	Hexavalent Chromium	01/09/24 11:07 AM	Reported
15	N062241-009A	SAMP	5	Hexavalent Chromium	01/09/24 11:37 AM	Not Reported
16	N062241-009AMS	MS	5	Hexavalent Chromium	01/09/24 11:50 AM	Not Reported
17	N062241-009AMSD	MSD	5	Hexavalent Chromium	01/09/24 11:59 AM	Not Reported
18	N062242-001A	SAMP	1	Hexavalent Chromium	01/09/24 12:09 PM	Reported
19	N062242-001ADUP	DUP	1	Hexavalent Chromium	01/09/24 12:18 PM	Reported
20	N062242-001AMS	MS	1	Hexavalent Chromium	01/09/24 12:28 PM	Reported
21	N062241-009A	SAMP	1	Hexavalent Chromium	01/09/24 12:47 PM	Reported
22	N062241-009AMS	MS	1	Hexavalent Chromium	01/09/24 12:59 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/09/24 1:09 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/09/24 1:18 PM	Reported
25	N062241-009AMSD	MSD	1	Hexavalent Chromium	01/09/24 1:28 PM	Reported
26	N062241-009AMS	MS	5	Hexavalent Chromium	01/09/24 1:37 PM	Not Reported
27	N062241-009AMSD	MSD	5	Hexavalent Chromium	01/09/24 1:47 PM	Not Reported
28	N062241-001A	SAMP	5	Hexavalent Chromium	01/09/24 1:56 PM	Not Reported
29	N062241-001AMS	MS	5	Hexavalent Chromium	01/09/24 2:06 PM	Not Reported
30	N062241-004A	SAMP	5	Hexavalent Chromium	01/09/24 2:15 PM	Reported
31	N062241-004AMS	MS	5	Hexavalent Chromium	01/09/24 2:25 PM	Reported
32	N062194-011A	SAMP	1	Hexavalent Chromium	01/09/24 2:34 PM	Reported
33	N062241-007A	SAMP	1	Hexavalent Chromium	01/09/24 2:44 PM	Reported
34	N062241-007AMS	MS	1	Hexavalent Chromium	01/09/24 2:53 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/09/24 3:02 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/09/24 3:12 PM	Reported
37	N062241-008A	SAMP	1	Hexavalent Chromium	01/09/24 3:21 PM	Not Reported
38	N062241-008AMS	MS	1	Hexavalent Chromium	01/09/24 3:31 PM	Not Reported
39	N062242-002A	SAMP	1	Hexavalent Chromium	01/09/24 3:43 PM	Reported
40	N062242-002AMS	MS	1	Hexavalent Chromium	01/09/24 3:52 PM	Reported
41	N062242-003A	SAMP	1	Hexavalent Chromium	01/09/24 4:03 PM	Reported
42	N062242-003AMS	MS	1	Hexavalent Chromium	01/09/24 4:14 PM	Reported

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062242-004A	SAMP	1	Hexavalent Chromium	01/09/24 4:24 PM	Reported
44	N062242-004AMS	MS	1	Hexavalent Chromium	01/09/24 4:33 PM	Reported
45	N062242-005A	SAMP	1	Hexavalent Chromium	01/09/24 4:43 PM	Reported
46	N062242-005AMS	MS	1	Hexavalent Chromium	01/09/24 4:52 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/09/24 5:02 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/09/24 5:11 PM	Reported
49	N062242-006A	SAMP	1	Hexavalent Chromium	01/09/24 5:21 PM	Reported
50	N062242-006AMS	MS	1	Hexavalent Chromium	01/09/24 5:30 PM	Reported
51	N062242-007A	SAMP	1	Hexavalent Chromium	01/09/24 5:40 PM	Reported
52	N062242-007AMS	MS	1	Hexavalent Chromium	01/09/24 5:50 PM	Reported
53	N062241-002A	SAMP	1	Hexavalent Chromium	01/09/24 7:53 PM	Not Reported
54	N062241-002AMS	MS	1	Hexavalent Chromium	01/09/24 7:54 PM	Not Reported
55	N062241-003A	SAMP	1	Hexavalent Chromium	01/09/24 8:06 PM	Not Reported
56	N062241-003AMS	MS	1	Hexavalent Chromium	01/09/24 8:16 PM	Not Reported
57	N062241-006A	SAMP	1	Hexavalent Chromium	01/09/24 8:25 PM	Not Reported
58	N062241-006AMS	MS	1	Hexavalent Chromium	01/09/24 8:34 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/09/24 8:44 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/09/24 8:53 PM	Reported
61	N062241-005A	SAMP	1	Hexavalent Chromium	01/09/24 9:02 PM	Reported
62	N062241-005AMS	MS	1	Hexavalent Chromium	01/09/24 9:12 PM	Reported
63	N062241-010A	SAMP	1	Hexavalent Chromium	01/09/24 9:21 PM	Reported
64	N062241-010AMS	MS	1	Hexavalent Chromium	01/09/24 9:35 PM	Reported
65	N062241-002A	SAMP	5	Hexavalent Chromium	01/09/24 9:44 PM	Reported
66	N062241-002AMS	MS	5	Hexavalent Chromium	01/09/24 9:53 PM	Reported
67	N062241-003A	SAMP	5	Hexavalent Chromium	01/09/24 10:03 PM	Reported
68	N062241-003AMS	MS	5	Hexavalent Chromium	01/09/24 10:12 PM	Reported
69	N062241-006A	SAMP	5	Hexavalent Chromium	01/09/24 10:22 PM	Reported
70	N062241-006AMS	MS	5	Hexavalent Chromium	01/09/24 10:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/09/24 10:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/09/24 10:50 PM	Reported
73	N062210-001A	SAMP	5	Hexavalent Chromium	01/09/24 10:59 PM	Reported
74	N062192-001A	SAMP	1	Hexavalent Chromium	01/09/24 11:09 PM	Reported
75	N062241-001A	SAMP	1	Hexavalent Chromium	01/09/24 11:18 PM	Reported
76	N062241-001AMS	MS	1	Hexavalent Chromium	01/09/24 11:28 PM	Reported
77	N062190-004A	SAMP	1	Hexavalent Chromium	01/09/24 11:37 PM	Not Reported
78	N062190-004AMS	MS	1	Hexavalent Chromium	01/09/24 11:47 PM	Not Reported
79	N062194-001A	SAMP	5	Hexavalent Chromium	01/09/24 11:56 PM	Not Reported
80	N062194-001AMS	MS	5	Hexavalent Chromium	01/10/24 12:06 AM	Not Reported
81	N062194-005A	SAMP	1	Hexavalent Chromium	01/10/24 12:15 AM	Not Reported
82	N062194-005AMS	MS	1	Hexavalent Chromium	01/10/24 12:25 AM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/10/24 12:34 AM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/10/24 12:44 AM	Reported

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062194-011A	SAMP	1	Hexavalent Chromium	01/10/24 12:53 AM	Not Reported
86	N062194-011AMS	MS	1	Hexavalent Chromium	01/10/24 1:02 AM	Not Reported
87	N062194-012A	SAMP	1	Hexavalent Chromium	01/10/24 1:12 AM	Not Reported
88	N062194-012AMS	MS	1	Hexavalent Chromium	01/10/24 1:21 AM	Not Reported
89	BLANK	BLANK	1	Hexavalent Chromium	01/10/24 1:31 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240109A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	10/Jan/24 15:38:25
No. of Injections:	92	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/09/2024 10:17	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/09/2024 10:30	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		01/09/2024 10:39	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/09/2024 10:48	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/09/2024 10:58	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/09/2024 11:07	Finished	LCS @5ppb, IWST-231228B
15	N062241-009A.SAMF	1	1000	Unknown		01/09/2024 11:37	Finished	SAMP,2>10 mL
16	N062241-009AMS.MS	2	1000	Unknown		01/09/2024 11:50	Finished	MS (5ppb), IWST-231228B,2>
17	N062241-009AMSD.M	3	1000	Unknown		01/09/2024 11:59	Finished	MSD (5ppb), IWST-231228B,2>
18	N062242-001A.SAMF	4	1000	Unknown		01/09/2024 12:09	Finished	SAMP,10 mL
19	N062242-001ADUP.D	5	1000	Unknown		01/09/2024 12:18	Finished	DUP,10 mL
20	N062242-001AMS.MS	6	1000	Unknown		01/09/2024 12:28	Finished	MS (1ppb), IWST-231228B,10r
21	N062241-009A.SAMF	1	1000	Unknown		01/09/2024 12:47	Finished	SAMP,10 mL
22	N062241-009AMS.MS	2	1000	Unknown		01/09/2024 12:59	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2.CCV1,1,	3	1000	Unknown		01/09/2024 13:09	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	4	1000	Unknown		01/09/2024 13:18	Finished	CCB R231030A
25	N062241-009AMSD.M	5	1000	Unknown		01/09/2024 13:28	Finished	MSD (1ppb), IWST-231228B,1
26	N062241-009AMS.MS	6	1000	Unknown		01/09/2024 13:37	Finished	MS (1ppb), IWST-231228B,2>
27	N062241-009AMSD.M	7	1000	Unknown		01/09/2024 13:47	Finished	MSD (1ppb), IWST-231228B,2>
28	N062241-001A.SAMF	8	1000	Unknown		01/09/2024 13:56	Finished	SAMP,2>10 mL
29	N062241-001AMS.MS	9	1000	Unknown		01/09/2024 14:06	Finished	MS (5ppb), IWST-231228B,2>
30	N062241-004A.SAMF	10	1000	Unknown		01/09/2024 14:15	Finished	SAMP,2>10 mL
31	N062241-004AMS.MS	11	1000	Unknown		01/09/2024 14:25	Finished	MS (5ppb), IWST-231228B,2>
32	N062194-011A.SAMF	12	1000	Unknown		01/09/2024 14:34	Finished	SAMP,10 mL
33	N062241-007A.SAMF	13	1000	Unknown		01/09/2024 14:44	Finished	SAMP,10 mL
34	N062241-007AMS.MS	14	1000	Unknown		01/09/2024 14:53	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3.CCV,1,	15	1000	Unknown		01/09/2024 15:02	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	16	1000	Unknown		01/09/2024 15:12	Finished	CCB R231030A
37	N062241-008A.SAMF	17	1000	Unknown		01/09/2024 15:21	Finished	SAMP,10 mL
38	N062241-008AMS.MS	18	1000	Unknown		01/09/2024 15:31	Finished	MS (1ppb), IWST-231228B,10r
39	N062242-002A.SAMF	19	1000	Unknown		01/09/2024 15:43	Finished	SAMP,10 mL
40	N062242-002AMS.MS	20	1000	Unknown		01/09/2024 15:52	Finished	MS (1ppb), IWST-231228B,10r
41	N062242-003A.SAMF	1	1000	Unknown		01/09/2024 16:03	Finished	SAMP,10 mL
42	N062242-003AMS.MS	2	1000	Unknown		01/09/2024 16:14	Finished	MS (1ppb), IWST-231228B,10r
43	N062242-004A.SAMF	3	1000	Unknown		01/09/2024 16:24	Finished	SAMP,10 mL
44	N062242-004AMS.MS	4	1000	Unknown		01/09/2024 16:33	Finished	MS (1ppb), IWST-231228B,10r
45	N062242-005A.SAMF	5	1000	Unknown		01/09/2024 16:43	Finished	SAMP,10 mL
46	N062242-005AMS.MS	6	1000	Unknown		01/09/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	7	1000	Unknown		01/09/2024 17:02	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	8	1000	Unknown		01/09/2024 17:11	Finished	CCB R231030A
49	N062242-006A.SAMF	9	1000	Unknown		01/09/2024 17:21	Finished	SAMP,10 mL
50	N062242-006AMS.MS	10	1000	Unknown		01/09/2024 17:30	Finished	MS (1ppb), IWST-231228B,10r
51	N062242-007A.SAMF	11	1000	Unknown		01/09/2024 17:40	Finished	SAMP,10 mL
52	N062242-007AMS.MS	12	1000	Unknown		01/09/2024 17:50	Interrupted	MS (1ppb), IWST-231228B,10r
53	N062241-002A.SAMF	13	1000	Unknown		01/09/2024 19:53	Interrupted	SAMP,10 mL
54	N062241-002AMS.MS	14	1000	Unknown		01/09/2024 19:54	Finished	MS (5ppb), IWST-231228B,10r
55	N062241-003A.SAMF	15	1000	Unknown		01/09/2024 20:06	Finished	SAMP,10 mL
56	N062241-003AMS.MS	16	1000	Unknown		01/09/2024 20:16	Finished	MS (1ppb), IWST-231228B,10r
57	N062241-006A.SAMF	17	1000	Unknown		01/09/2024 20:25	Finished	SAMP,10 mL
58	N062241-006AMS.MS	18	1000	Unknown		01/09/2024 20:34	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5.CCV,1,	19	1000	Unknown		01/09/2024 20:44	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	20	1000	Unknown		01/09/2024 20:53	Finished	CCB R231227C

61	N062241-005A,SAMF	21	1000	Unknown	01/09/2024 21:02	Finished	SAMP,10 mL
62	N062241-005AMS,M\$	22	1000	Unknown	01/09/2024 21:12	Finished	MS (1ppb), IWST-231228B,10r
63	N062241-010A,SAMF	23	1000	Unknown	01/09/2024 21:21	Finished	SAMP,10 mL
64	N062241-010AMS,M\$	24	1000	Unknown	01/09/2024 21:35	Finished	MS (1ppb), IWST-231228B,10r
65	N062241-002A,SAMF	25	1000	Unknown	01/09/2024 21:44	Finished	SAMP,2>10 mL
66	N062241-002AMS,M\$	26	1000	Unknown	01/09/2024 21:53	Finished	MS (1ppb), IWST-231228B,2>
67	N062241-003A,SAMF	27	1000	Unknown	01/09/2024 22:03	Finished	SAMP,2>10 mL
68	N062241-003AMS,M\$	28	1000	Unknown	01/09/2024 22:12	Finished	MS (1ppb), IWST-231228B,2>
69	N062241-006A,SAMF	29	1000	Unknown	01/09/2024 22:22	Finished	SAMP,2>10 mL
70	N062241-006AMS,M\$	30	1000	Unknown	01/09/2024 22:31	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV,1,	31	1000	Unknown	01/09/2024 22:41	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	32	1000	Unknown	01/09/2024 22:50	Finished	CCB R231227C
73	N062210-001A,SAMF	33	1000	Unknown	01/09/2024 22:59	Finished	SAMP,2>10 mL
74	N062192-001A,SAMF	34	1000	Unknown	01/09/2024 23:09	Finished	SAMP,10 mL
75	N062241-001A,SAMF	35	1000	Unknown	01/09/2024 23:18	Finished	SAMP,10 mL
76	N062241-001AMS,M\$	36	1000	Unknown	01/09/2024 23:28	Finished	MS (5ppb), IWST-231228B,10r
77	N062190-004A,SAMF	37	1000	Unknown	01/09/2024 23:37	Finished	MS (5ppb), IWST-231228B,10r
78	N062190-004AMS,M\$	38	1000	Unknown	01/09/2024 23:47	Finished	MS (5ppb), IWST-231228B,10r
79	N062194-001A,SAMF	39	1000	Unknown	01/09/2024 23:56	Finished	MS (5ppb), IWST-231228B,10r
80	N062194-001AMS,M\$	40	1000	Unknown	01/10/2024 00:06	Finished	MS (5ppb), IWST-231228B,10r
81	N062194-005A,SAMF	41	1000	Unknown	01/10/2024 00:15	Finished	MS (5ppb), IWST-231228B,10r
82	N062194-005AMS,M\$	42	1000	Unknown	01/10/2024 00:25	Finished	MS (5ppb), IWST-231228B,10r
83	CCV-7,CCV,1,	43	1000	Unknown	01/10/2024 00:34	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	44	1000	Unknown	01/10/2024 00:44	Finished	CCB R231227C
85	N062194-011A,SAMF	45	1000	Unknown	01/10/2024 00:53	Finished	CCB R231227C
86	N062194-011AMS,M\$	46	1000	Unknown	01/10/2024 01:02	Finished	CCB R231227C
87	N062194-012A,SAMF	47	1000	Unknown	01/10/2024 01:12	Finished	CCB R231227C
88	N062194-012AMS,M\$	48	1000	Unknown	01/10/2024 01:21	Finished	CCB R231227C
89	BLANK	49	1000	Unknown	01/10/2024 01:31	Finished	BLANK
90	SHUTDOWN	50	1000	Unknown	01/10/2024 01:40	Interrupted	
91	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
92	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 10:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/11/24 10:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/11/24 11:03 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/11/24 11:13 AM	Reported
13	MB-R180321	MBLK	1	Hexavalent Chromium	01/11/24 11:22 AM	Reported
14	LCS-R180321	LCS	1	Hexavalent Chromium	01/11/24 11:32 AM	Reported
15	N062314-003B	SAMP	1	Hexavalent Chromium	01/11/24 11:58 AM	Reported
16	N062314-003BREP	DUP	1	Hexavalent Chromium	01/11/24 12:11 PM	Reported
17	N062314-003BMS	MS	1	Hexavalent Chromium	01/11/24 12:21 PM	Reported
18	N062238-001A	SAMP	1	Hexavalent Chromium	01/11/24 12:50 PM	Reported
19	N062238-001AMS	MS	1	Hexavalent Chromium	01/11/24 1:03 PM	Reported
20	N062238-002A	SAMP	1	Hexavalent Chromium	01/11/24 1:13 PM	Reported
21	N062238-002AMS	MS	1	Hexavalent Chromium	01/11/24 1:22 PM	Reported
22	N062238-003A	SAMP	1	Hexavalent Chromium	01/11/24 1:31 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/11/24 1:41 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/11/24 1:50 PM	Reported
25	N062238-003AMS	MS	1	Hexavalent Chromium	01/11/24 2:00 PM	Reported
26	N062241-008A	SAMP	5	Hexavalent Chromium	01/11/24 2:09 PM	Reported
27	N062241-008AMS	MS	5	Hexavalent Chromium	01/11/24 2:21 PM	Reported
28	N062279-021A	SAMP	1	Hexavalent Chromium	01/11/24 2:33 PM	Reported
29	N062279-022A	SAMP	1	Hexavalent Chromium	01/11/24 2:42 PM	Reported
30	N062279-023A	SAMP	1	Hexavalent Chromium	01/11/24 2:52 PM	Reported
31	N062272-006A	SAMP	20	Hexavalent Chromium	01/11/24 3:01 PM	Not Reported
32	N062272-006AMS	MS	20	Hexavalent Chromium	01/11/24 3:10 PM	Not Reported
33	N062272-006AMSD	MSD	20	Hexavalent Chromium	01/11/24 3:20 PM	Not Reported
34	N062272-006ADUP	DUP	20	Hexavalent Chromium	01/11/24 3:29 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/11/24 3:39 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/11/24 3:48 PM	Reported
37	N062272-009A	SAMP	20	Hexavalent Chromium	01/11/24 3:58 PM	Reported
38	N062272-009AMS	MS	20	Hexavalent Chromium	01/11/24 4:07 PM	Reported
39	N062272-010A	SAMP	20	Hexavalent Chromium	01/11/24 4:17 PM	Reported
40	N062272-010AMS	MS	20	Hexavalent Chromium	01/11/24 4:26 PM	Reported
41	N062272-011A	SAMP	10	Hexavalent Chromium	01/11/24 4:36 PM	Reported
42	N062272-011AMS	MS	10	Hexavalent Chromium	01/11/24 4:45 PM	Reported

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-001A	SAMP	1	Hexavalent Chromium	01/11/24 4:54 PM	Reported
44	N062272-001AMS	MS	1	Hexavalent Chromium	01/11/24 5:04 PM	Reported
45	N062272-002A	SAMP	1	Hexavalent Chromium	01/11/24 5:13 PM	Reported
46	N062272-002AMS	MS	1	Hexavalent Chromium	01/11/24 5:23 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/11/24 5:32 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/11/24 5:42 PM	Reported
49	N062272-009ADUP	DUP	20	Hexavalent Chromium	01/11/24 5:51 PM	Reported
50	N062272-009AMSD	MSD	20	Hexavalent Chromium	01/11/24 6:01 PM	Not Reported
51	N062272-004A	SAMP	1	Hexavalent Chromium	01/11/24 6:10 PM	Not Reported
52	N062272-004AMS	MS	1	Hexavalent Chromium	01/11/24 6:20 PM	Not Reported
53	N062272-005A	SAMP	1	Hexavalent Chromium	01/11/24 6:29 PM	Not Reported
54	N062272-005AMS	MS	1	Hexavalent Chromium	01/11/24 6:39 PM	Not Reported
55	N062272-007A	SAMP	1	Hexavalent Chromium	01/11/24 6:48 PM	Reported
56	N062272-007AMS	MS	1	Hexavalent Chromium	01/11/24 7:10 PM	Reported
57	N062272-008A	SAMP	1	Hexavalent Chromium	01/11/24 7:21 PM	Reported
58	N062272-008AMS	MS	1	Hexavalent Chromium	01/11/24 7:31 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/11/24 7:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/11/24 7:50 PM	Reported
61	N062272-012A	SAMP	1	Hexavalent Chromium	01/11/24 7:59 PM	Reported
62	N062272-012AMS	MS	1	Hexavalent Chromium	01/11/24 8:09 PM	Reported
63	N062272-001A	SAMP	5	Hexavalent Chromium	01/11/24 8:18 PM	Not Reported
64	N062272-001AMS	MS	5	Hexavalent Chromium	01/11/24 8:28 PM	Not Reported
65	N062272-003A	SAMP	1	Hexavalent Chromium	01/11/24 8:37 PM	Reported
66	N062272-003AMS	MS	1	Hexavalent Chromium	01/11/24 8:47 PM	Reported
67	N062272-006A	SAMP	5	Hexavalent Chromium	01/11/24 8:56 PM	Reported
68	N062272-006AMS	MS	5	Hexavalent Chromium	01/11/24 9:05 PM	Reported
69	N062272-011A	SAMP	1	Hexavalent Chromium	01/11/24 9:15 PM	Reported
70	N062272-011AMS	MS	1	Hexavalent Chromium	01/11/24 9:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 9:34 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 9:43 PM	Reported
73	N062272-011A	SAMP	5	Hexavalent Chromium	01/11/24 9:53 PM	Not Reported
74	N062272-011AMS	MS	5	Hexavalent Chromium	01/11/24 10:02 PM	Not Reported
75	MB-R180322	MBLK	1	Hexavalent Chromium	01/11/24 10:12 PM	Reported
76	LCS-R180322	LCS	1	Hexavalent Chromium	01/11/24 10:21 PM	Reported
77	N062307-001A	SAMP	1	Hexavalent Chromium	01/11/24 10:31 PM	Reported
78	N062307-001ADUP	DUP	1	Hexavalent Chromium	01/11/24 10:40 PM	Reported
79	N062307-001AMS	MS	1	Hexavalent Chromium	01/11/24 10:49 PM	Reported
80	N062307-001AMSD	MSD	1	Hexavalent Chromium	01/11/24 10:59 PM	Reported
81	N062308-001A	SAMP	1	Hexavalent Chromium	01/11/24 11:08 PM	Reported
82	N062308-002A	SAMP	1	Hexavalent Chromium	01/11/24 11:18 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 11:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 11:37 PM	Reported

d/Recha 1/23/2024
for RBA

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062309-007A	SAMP	1	Hexavalent Chromium	01/11/24 11:46 PM	Reported
86	N062309-007AMS	MS	1	Hexavalent Chromium	01/11/24 11:56 PM	Reported
87	N062309-007AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:05 AM	Reported
88	N062309-008A	SAMP	1	Hexavalent Chromium	01/12/24 12:15 AM	Reported
89	N062309-008AMS	MS	1	Hexavalent Chromium	01/12/24 12:24 AM	Reported
90	N062309-008AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:33 AM	Reported
91	N062309-001A	SAMP	50	Hexavalent Chromium	01/12/24 12:43 AM	Not Reported
92	N062309-002A	SAMP	1	Hexavalent Chromium	01/12/24 12:52 AM	Reported
93	N062309-003A	SAMP	5	Hexavalent Chromium	01/12/24 1:02 AM	Reported
94	N062309-004A	SAMP	1	Hexavalent Chromium	01/12/24 1:11 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/12/24 1:21 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/12/24 1:30 AM	Reported
97	N062309-005A	SAMP	5	Hexavalent Chromium	01/12/24 1:40 AM	Reported
98	N062309-006A	SAMP	1	Hexavalent Chromium	01/12/24 1:49 AM	Reported
99	N062309-009A	SAMP	1	Hexavalent Chromium	01/12/24 1:59 AM	Reported
100	N062309-010A	SAMP	1	Hexavalent Chromium	01/12/24 2:08 AM	Reported
101	N062272-004AMS	MS	1	Hexavalent Chromium	01/12/24 2:18 AM	Not Reported
102	CCV-9	CCV	1	Hexavalent Chromium	01/12/24 2:27 AM	Reported
103	CCB-9	CCB	1	Hexavalent Chromium	01/12/24 2:36 AM	Reported
104	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 2:46 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240111A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Jan/24 03:16:42
No. of Injections:	107	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/11/2024 10:43	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/11/2024 10:54	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/11/2024 11:03	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/11/2024 11:13	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/11/2024 11:22	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/11/2024 11:32	Finished	LCS @5ppb, IWST-231228B
15	N062314-003B,SAMP	1	1000	Unknown		01/11/2024 11:58	Finished	SAMP,10 mL
16	N062314-003BREP,D	2	1000	Unknown		01/11/2024 12:11	Finished	REP,10 mL
17	N062314-003BMS,M	3	1000	Unknown		01/11/2024 12:21	Finished	MS (1ppb), IWST-231228B,10r
18	N062238-001A,SAMP	1	1000	Unknown		01/11/2024 12:50	Finished	SAMP,10 mL
19	N062238-001AMS,M	2	1000	Unknown		01/11/2024 13:03	Finished	MS (1ppb), IWST-231228B,10r
20	N062238-002A,SAMP	3	1000	Unknown		01/11/2024 13:13	Finished	SAMP,10 mL
21	N062238-002AMS,M	4	1000	Unknown		01/11/2024 13:22	Finished	MS (1ppb), IWST-231228B,10r
22	N062238-003A,SAMP	5	1000	Unknown		01/11/2024 13:31	Finished	SAMP,10 mL
23	CCV-2,CCV1,1,	6	1000	Unknown		01/11/2024 13:41	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	7	1000	Unknown		01/11/2024 13:50	Finished	CCB R231030A
25	N062238-003AMS,M	8	1000	Unknown		01/11/2024 14:00	Finished	MS (1ppb), IWST-231228B,10r
26	N062241-008A,SAMP	9	1000	Unknown		01/11/2024 14:09	Finished	SAMP,2>10 mL
27	N062241-008AMS,M	1	1000	Unknown		01/11/2024 14:21	Finished	MS (1ppb), IWST-231228B,2>1
28	N062279-021A,SAMP	2	1000	Unknown		01/11/2024 14:33	Finished	SAMP,10 mL
29	N062279-022A,SAMP	3	1000	Unknown		01/11/2024 14:42	Finished	SAMP,10 mL
30	N062279-023A,SAMP	4	1000	Unknown		01/11/2024 14:52	Finished	SAMP,10 mL
31	N062272-006A,SAMP	5	1000	Unknown		01/11/2024 15:01	Finished	SAMP,0.5>10 mL
32	N062272-006AMS,M	6	1000	Unknown		01/11/2024 15:10	Finished	MS (5ppb), IWST-231228B,0.5
33	N062272-006AMSD,M	7	1000	Unknown		01/11/2024 15:20	Finished	MSD (5ppb), IWST-231228B,0
34	N062272-006ADUP,D	8	1000	Unknown		01/11/2024 15:29	Finished	DUP,0.5>10 mL
35	CCV-3,CCV,1,	9	1000	Unknown		01/11/2024 15:39	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	10	1000	Unknown		01/11/2024 15:48	Finished	CCB R231030A
37	N062272-009A,SAMP	11	1000	Unknown		01/11/2024 15:58	Finished	SAMP,0.5>10 mL
38	N062272-009AMS,M	12	1000	Unknown		01/11/2024 16:07	Finished	MS (5ppb), IWST-231228B,0.5
39	N062272-010A,SAMP	13	1000	Unknown		01/11/2024 16:17	Finished	SAMP,0.5>10 mL
40	N062272-010AMS,M	14	1000	Unknown		01/11/2024 16:26	Finished	MS (5ppb), IWST-231228B,0.5
41	N062272-011A,SAMP	15	1000	Unknown		01/11/2024 16:36	Finished	SAMP,1>10 mL
42	N062272-011AMS,M	16	1000	Unknown		01/11/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062272-001A,SAMP	17	1000	Unknown		01/11/2024 16:54	Finished	SAMP,10 mL
44	N062272-001AMS,M	18	1000	Unknown		01/11/2024 17:04	Finished	MS (1ppb), IWST-231228B,10r
45	N062272-002A,SAMP	19	1000	Unknown		01/11/2024 17:13	Finished	SAMP,10 mL
46	N062272-002AMS,M	20	1000	Unknown		01/11/2024 17:23	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	21	1000	Unknown		01/11/2024 17:32	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	22	1000	Unknown		01/11/2024 17:42	Finished	CCB R231030A
49	N062272-009ADUP,D	23	1000	Unknown		01/11/2024 17:51	Finished	DUP,0.5>10 mL
50	N062272-009AMS,M	24	1000	Unknown		01/11/2024 18:01	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-004A,SAMP	25	1000	Unknown		01/11/2024 18:10	Finished	SAMP,10 mL
52	N062272-004AMS,M	26	1000	Unknown		01/11/2024 18:20	Finished	MS (1ppb), IWST-231228B,10r
53	N062272-005A,SAMP	27	1000	Unknown		01/11/2024 18:29	Finished	SAMP,10 mL
54	N062272-005AMS,M	28	1000	Unknown		01/11/2024 18:39	Finished	MS (1ppb), IWST-231228B,10r
55	N062272-007A,SAMP	29	1000	Unknown		01/11/2024 18:48	Finished	SAMP,10 mL
56	N062272-007AMS,M	1	1000	Unknown		01/11/2024 19:10	Finished	MS (1ppb), IWST-231228B,10r
57	N062272-008A,SAMP	2	1000	Unknown		01/11/2024 19:21	Finished	SAMP,10 mL
58	N062272-008AMS,M	3	1000	Unknown		01/11/2024 19:31	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	4	1000	Unknown		01/11/2024 19:40	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	5	1000	Unknown		01/11/2024 19:50	Finished	CCB R231227C

61	N062272-012A,SAMP	6	1000	Unknown	01/11/2024 19:59	Finished	SAMP,10 mL
62	N062272-012AMS,MS	7	1000	Unknown	01/11/2024 20:09	Finished	MS (1ppb), IWST-231228B,10r
63	N062272-001A,SAMP	8	1000	Unknown	01/11/2024 20:18	Finished	SAMP,2>10 mL
64	N062272-001AMS,MS	9	1000	Unknown	01/11/2024 20:28	Finished	MS (1ppb), IWST-231228B,2>1
65	N062272-003A,SAMP	10	1000	Unknown	01/11/2024 20:37	Finished	SAMP,10 mL
66	N062272-003AMS,MS	11	1000	Unknown	01/11/2024 20:47	Finished	MS (1ppb), IWST-231228B,10r
67	N062272-006A,SAMP	12	1000	Unknown	01/11/2024 20:56	Finished	SAMP,2>10 mL
68	N062272-006AMS,MS	13	1000	Unknown	01/11/2024 21:05	Finished	MS (5ppb), IWST-231228B,2>
69	N062272-011A,SAMP	14	1000	Unknown	01/11/2024 21:15	Finished	SAMP,10 mL
70	N062272-011AMS,MS	15	1000	Unknown	01/11/2024 21:24	Finished	MS (5ppb), IWST-231228B,10r
71	CCV-6.CCV1,1,	16	1000	Unknown	01/11/2024 21:34	Finished	CCV @10ppb, IWST-231228A
72	CCB-6.CCB,1,	17	1000	Unknown	01/11/2024 21:43	Finished	CCB R231227C
73	N062272-011A,SAMP	18	1000	Unknown	01/11/2024 21:53	Finished	SAMP,2>10 mL
74	N062272-011AMS,MS	19	1000	Unknown	01/11/2024 22:02	Finished	MS (1ppb), IWST-231228B,2>1
75	MB-2.MBLK,1,	20	1000	Unknown	01/11/2024 22:12	Finished	MB R231227C
76	LCS-2.LCS,1,	21	1000	Unknown	01/11/2024 22:21	Finished	LCS @5ppb, IWST-231228B
77	N062307-001A,SAMP	22	1000	Unknown	01/11/2024 22:31	Finished	SAMP,10 mL
78	N062307-001ADUP,C	23	1000	Unknown	01/11/2024 22:40	Finished	DUP,10 mL
79	N062307-001AMS,MS	24	1000	Unknown	01/11/2024 22:49	Finished	MS (1ppb), IWST-231228B,10r
80	N062307-001AMSD,N	25	1000	Unknown	01/11/2024 22:59	Finished	MSD (1ppb), IWST-231228B,10
81	N062308-001A,SAMP	26	1000	Unknown	01/11/2024 23:08	Finished	SAMP,10 mL
82	N062308-002A,SAMP	27	1000	Unknown	01/11/2024 23:18	Finished	SAMP,10 mL
83	CCV-7.CCV,1,	28	1000	Unknown	01/11/2024 23:27	Finished	CCV @5ppb, IWST-231228A
84	CCB-7.CCB,1,	29	1000	Unknown	01/11/2024 23:37	Finished	CCB R231227C
85	N062309-007A,SAMP	30	1000	Unknown	01/11/2024 23:46	Finished	SAMP,10 mL
86	N062309-007AMS,MS	31	1000	Unknown	01/11/2024 23:56	Finished	MS (1ppb), IWST-231228B,10r
87	N062309-007AMSD,N	32	1000	Unknown	01/12/2024 00:05	Finished	MSD (1ppb), IWST-231228B,10
88	N062309-008A,SAMP	33	1000	Unknown	01/12/2024 00:15	Finished	SAMP,10 mL
89	N062309-008AMS,MS	34	1000	Unknown	01/12/2024 00:24	Finished	MS (1ppb), IWST-231228B,10r
90	N062309-008AMSD,N	35	1000	Unknown	01/12/2024 00:33	Finished	MSD (1ppb), IWST-231228B,10
91	N062309-001A,SAMP	36	1000	Unknown	01/12/2024 00:43	Finished	SAMP,0.2>10 mL
92	N062309-002A,SAMP	37	1000	Unknown	01/12/2024 00:52	Finished	SAMP,10 mL
93	N062309-003A,SAMP	38	1000	Unknown	01/12/2024 01:02	Finished	SAMP,2>10 mL
94	N062309-004A,SAMP	39	1000	Unknown	01/12/2024 01:11	Finished	SAMP,10 mL
95	CCV-8.CCV1,1,	40	1000	Unknown	01/12/2024 01:21	Finished	CCV @10ppb, IWST-231228A
96	CCB-8.CCB,1,	41	1000	Unknown	01/12/2024 01:30	Finished	CCB R231227C
97	N062309-005A,SAMP	42	1000	Unknown	01/12/2024 01:40	Finished	SAMP,2>10 mL
98	N062309-006A,SAMP	43	1000	Unknown	01/12/2024 01:49	Finished	SAMP,10 mL
99	N062309-009A,SAMP	44	1000	Unknown	01/12/2024 01:59	Finished	SAMP,10 mL
100	N062309-010A,SAMP	45	1000	Unknown	01/12/2024 02:08	Finished	SAMP,10 mL
101	N062272-004AMS,MS	46	1000	Unknown	01/12/2024 02:18	Finished	MS (5ppb), IWST-231228B,10r
102	CCV-9.CCV,1,	47	1000	Unknown	01/12/2024 02:27	Finished	CCV @5ppb, IWST-231228A
103	CCB-9.CCB,1,	48	1000	Unknown	01/12/2024 02:36	Finished	CCB R231227C
104	BLANK	49	1000	Unknown	01/12/2024 02:46	Finished	BLANK
105	SHUTDOWN	50	1000	Unknown	01/12/2024 02:55	Finished	
106	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
107	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/9/24
 Time Prepared: 10:04
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775 605 NA 0A
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A N231228B
 NH4OH + NH4SO4 buffer: N231227C

	Sample ID	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	NSG2278-1A	9.32	-	- 250ml	- 250ml		
2)	2A	9.34	-				
3)	3A	9.41	-				
4)	NSG2279-1A	9.36	-				
5)	NSG2241-1A	9.05	9.39			+ 4	
6)	2A	8.68	9.42			+ 6	
7)	3A	8.70	9.44			+ 6	
8)	4A	9.36	-				
9)	5A	9.68	-				
10)	6A	8.81	9.40			+ 5	
11)	7A	9.71	-				
12)	8A	9.25	-				
13)	9A	9.70	-				
14)	10A	9.68	-				
15)	NSG2242-1A	9.40	-				
	2A	9.40	-				

Sample Preparation

Date Prepared: 11/9/24
 Time Prepared: 10:04
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775 605 NA 0A
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A N231228B
 NH4OH + NH4SO4 buffer: N231227C

	Sample ID	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	NSG2242-3A	9.46	-	- 250ml	- 250ml		
2)	4A	9.39	-				
3)	5A	9.35	-				
4)	6A	9.56	-				
5)	7A	9.48	-				
6)	NSG2243-1A	9.29	-				
7)	2A	9.40	-				
8)	3A	9.46	-				
9)	4A	9.72	-				
10)	NSG2244-3A	9.35	-				
11)	NSG2245-1A	9.29	-				
12)	2A	9.78	-				
13)	3A	9.42	-				
14)	4A	9.46	-				
15)	5A	8.90	9.47			+ 4	
	6A	8.94	9.46			+ 4	
	NSG2247-5A	9.68	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert 1170922
 ORELAP Cert 4046 (EPA TO 15-8703)

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR CONSTRUCTION AND INFRASTRUCTURE

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ICV	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5612061						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5612062						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCV	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.775 0.20 5.000 0 95.5 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.185 0.20 0.2000 0 92.6 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6		Analysis Date: 1/9/2024	SeqNo: 5612074						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 9.711 0.20 10.00 0 97.1 95 105

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCV	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.018	0.20	5.000	0	100	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.079	0.20	10.00	0	101	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCV	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612098							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.041	0.20	5.000	0	101	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ZZZZZ	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.931	0.20	10.00	0	99.3	95	105				
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCV	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5612116							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.947	0.20	5.000	0	98.9	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ICV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5618102							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.932	0.20	5.000	0	98.6	90	110
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5618103							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.207	0.20	0.2000	0	103	80	120
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618105							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.998	0.20	5.000	0	100	95	105
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618106							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.184	0.20	0.2000	0	91.8	80	120
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.013	0.20	10.00	0	100	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618126							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.101	0.20	5.000	0	102	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.912	0.20	10.00	0	99.1	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618148							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.081	0.20	5.000	0	102	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618158							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.061	0.20	10.00	0	101	95	105				
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618160							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.978	0.20	5.000	0	99.6	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL • TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: ICB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5612063							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612066							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612075							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612083							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233						
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612099	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/9/2024	SeqNo: 5612111	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180233
Client ID: CCB	Batch ID: R180233	TestNo: EPA 218.6	Analysis Date: 1/10/2024	SeqNo: 5612117	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ICB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5618104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618137						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618159	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618161	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	
CCV-7	4.006	

Average 4.012

Actual RT Window 3.932 - 4.092

Applied RT Window 3.812 - 4.212

MB-R180233	N.A.	N.A.
LCS-R180233	4.006	PASS
N062241-009A	3.973	PASS
N062241-009AMS	3.981	PASS
N062241-009AMSD	3.981	PASS
N062242-001A	4.006	PASS
N062242-001ADUP	4.006	PASS
N062242-001AMS	4.006	PASS
N062241-009A	N.A.	N.A.
N062241-009AMS	3.840	PASS
N062241-009AMSD	3.831	PASS
N062241-009AMS	3.981	PASS
N062241-009AMSD	3.981	PASS
N062241-001A	3.990	PASS
N062241-001AMS	3.990	PASS
N062241-004A	3.973	PASS
N062241-004AMS	3.973	PASS
N062194-011A	N.A.	N.A.
N062241-007A	3.840	PASS
N062241-007AMS	3.840	PASS
N062241-008A	N.A.	N.A.

Reviewed by:

d/Rocha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	
CCV-7	4.006	

Average 4.012

Actual RT Window 3.932 - 4.092

Applied RT Window 3.812 - 4.212

N062241-008AMS	3.831	PASS
N062242-002A	4.015	PASS
N062242-002AMS	4.006	PASS
N062242-003A	4.015	PASS
N062242-003AMS	4.006	PASS
N062242-004A	4.006	PASS
N062242-004AMS	4.015	PASS
N062242-005A	4.006	PASS
N062242-005AMS	4.006	PASS
N062242-006A	N.A.	N.A.
N062242-006AMS	4.006	PASS
N062242-007A	4.006	PASS
N062242-007AMS	4.006	PASS
N062241-002A	N.A.	N.A.
N062241-002AMS	N.A.	N.A.
N062241-003AMS	3.815	PASS
N062241-006A	N.A.	N.A.
N062241-005A	N.A.	N.A.
N062241-005AMS	4.006	PASS
N062241-010A	N.A.	N.A.
N062241-010AMS	4.006	PASS

Reviewed by:

d/Rocha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	
CCV-7	4.006	

Average 4.012

Actual RT Window 3.932 - 4.092

Applied RT Window 3.812 - 4.212

N062241-002A	3.965	PASS
N062241-002AMS	3.965	PASS
N062241-003A	3.981	PASS
N062241-003AMS	3.981	PASS
N062241-006A	N.A.	N.A.
N062241-006AMS	3.981	PASS
N062210-001A	4.006	PASS
N062192-001A	3.990	PASS
N062241-001A	3.831	PASS
N062241-001AMS	3.831	PASS
N062190-004A	3.948	PASS
N062190-004AMS	3.948	PASS
N062194-001A	4.006	PASS
N062194-001AMS	4.006	PASS
N062194-005A	N.A.	N.A.
N062194-005AMS	3.998	PASS
N062194-011A	N.A.	N.A.
N062194-011AMS	3.998	PASS
N062194-012A	3.990	PASS
N062194-012AMS	3.998	PASS

Reviewed by:

d/Rocha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

MB-R180321	N.A.	N.A.
LCS-R180321	4.006	PASS
N062314-003B	3.981	PASS
N062314-003BREP	4.006	PASS
N062314-003BMS	4.006	PASS
N062238-001A	N.A.	N.A.
N062238-001AMS	3.815	PASS
N062238-002A	3.823	PASS
N062238-002AMS	3.815	PASS
N062238-003A	3.823	PASS
N062238-003AMS	3.806	PASS
N062241-008A	N.A.	N.A.
N062241-008AMS	3.981	PASS
N062279-021A	3.956	PASS
N062279-022A	3.981	PASS
N062279-023A	3.990	PASS
N062272-006A	3.998	PASS
N062272-006AMS	4.006	PASS
N062272-006AMSD	3.998	PASS

Reviewed by:

M Rocha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062272-006ADUP	3.998	PASS
N062272-009A	3.998	PASS
N062272-009AMS	3.998	PASS
N062272-010A	3.998	PASS
N062272-010AMS	3.998	PASS
N062272-011A	3.998	PASS
N062272-011AMS	3.998	PASS
N062272-001A	4.006	PASS
N062272-001AMS	3.990	PASS
N062272-002A	N.A.	N.A.
N062272-002AMS	3.998	PASS
N062272-009ADUP	3.998	PASS
N062272-009AMS ^D	3.998	PASS
N062272-004A	3.948	PASS
N062272-004AMS	3.940	PASS
N062272-005A	3.881	PASS
N062272-005AMS	3.881	PASS
N062272-007A	N.A.	N.A.
N062272-007AMS	3.998	PASS

Reviewed by:

d/Recha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062272-008A	N.A.	N.A.
N062272-008AMS	3.990	PASS
N062272-012A	N.A.	N.A.
N062272-012AMS	3.998	PASS
N062272-001A	3.998	PASS
N062272-001AMS	3.998	PASS
N062272-003A	N.A.	N.A.
N062272-003AMS	3.990	PASS
N062272-006A	3.965	PASS
N062272-006AMS	3.973	PASS
N062272-011A	3.865	PASS
N062272-011AMS	3.865	PASS
N062272-011A	3.981	PASS
N062272-011AMS	3.981	PASS
MB-R180322	N.A.	N.A.
LCS-R180322	4.006	PASS
N062307-001A	3.990	PASS
N062307-001ADUP	3.990	PASS
N062307-001AMS	3.998	PASS

Reviewed by:

d/Recha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062307-001AMSD	3.990	PASS
N062308-001A	3.998	PASS
N062308-002A	N.A.	N.A.
N062309-007A	3.990	PASS
N062309-007AMS	3.990	PASS
N062309-007AMSD	3.990	PASS
N062309-008A	3.998	PASS
N062309-008AMS	3.998	PASS
N062309-008AMSD	3.998	PASS
N062309-001A	4.006	PASS
N062309-002A	3.990	PASS
N062309-003A	4.006	PASS
N062309-004A	3.990	PASS
N062309-005A	3.998	PASS
N062309-006A	3.981	PASS
N062309-009A	3.998	PASS
N062309-010A	3.990	PASS
N062272-004AMS	3.940	PASS

Reviewed by:

M. Rocha 1/24/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INITIAL CALIBRATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

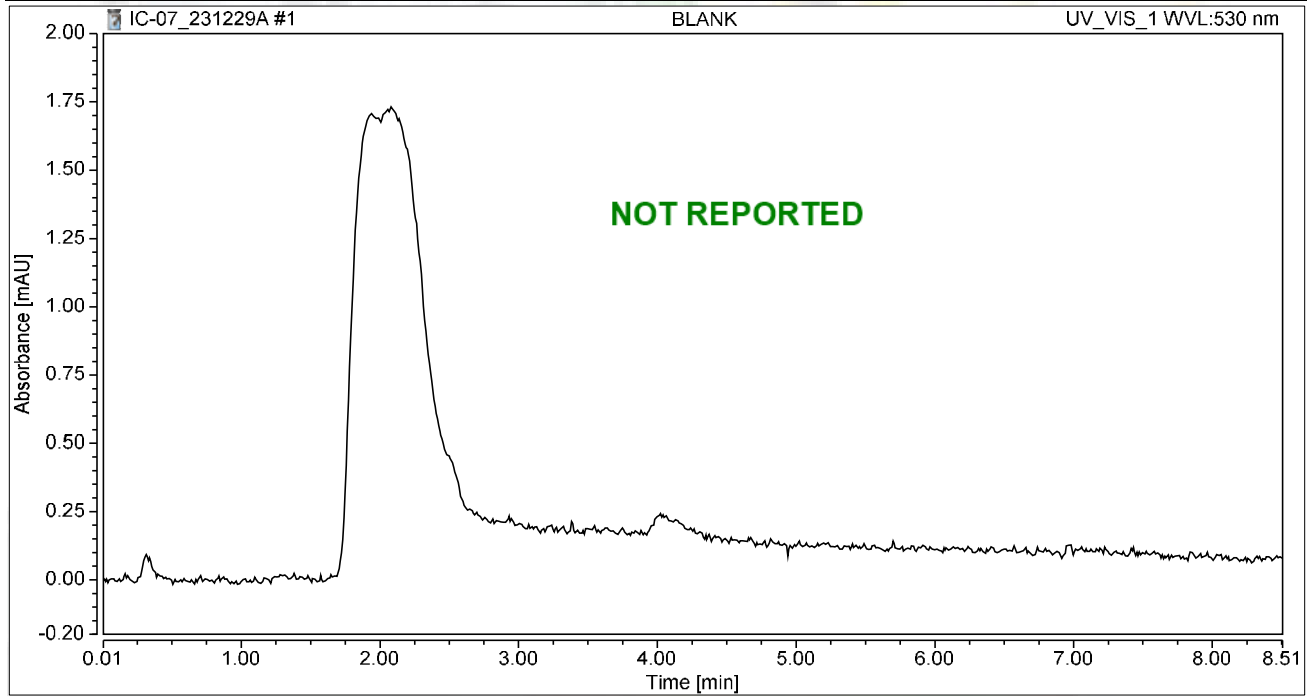
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

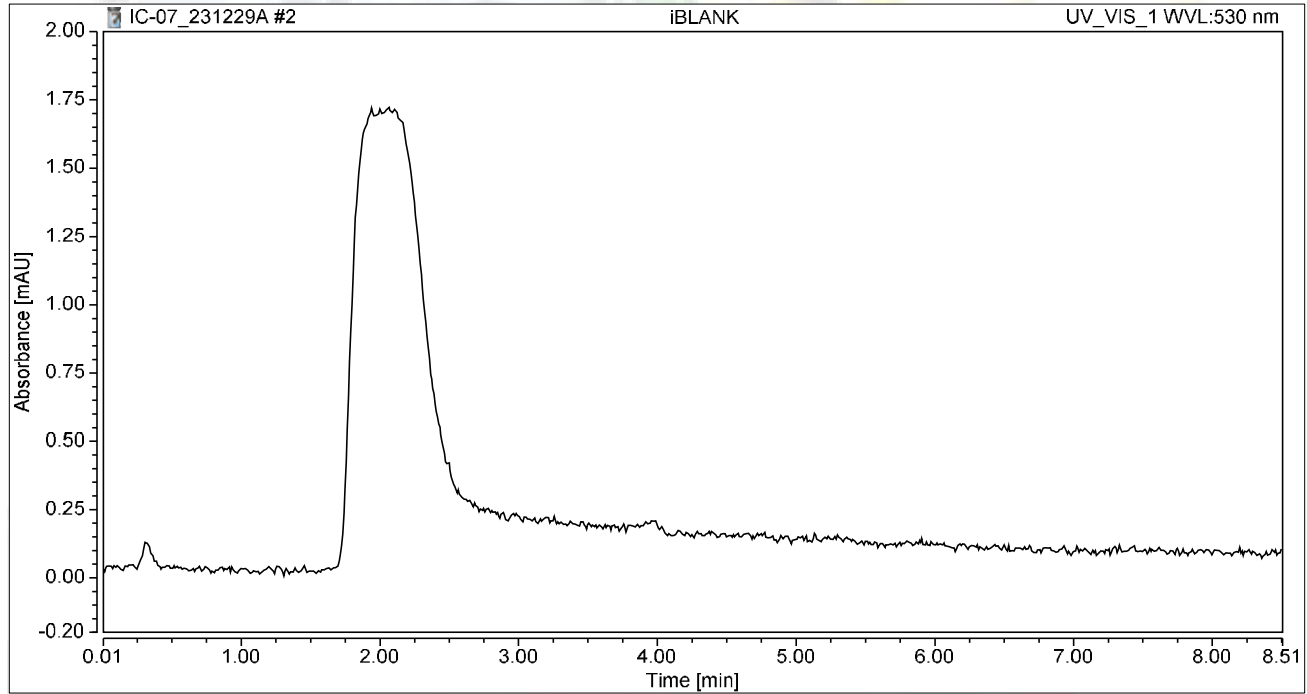
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

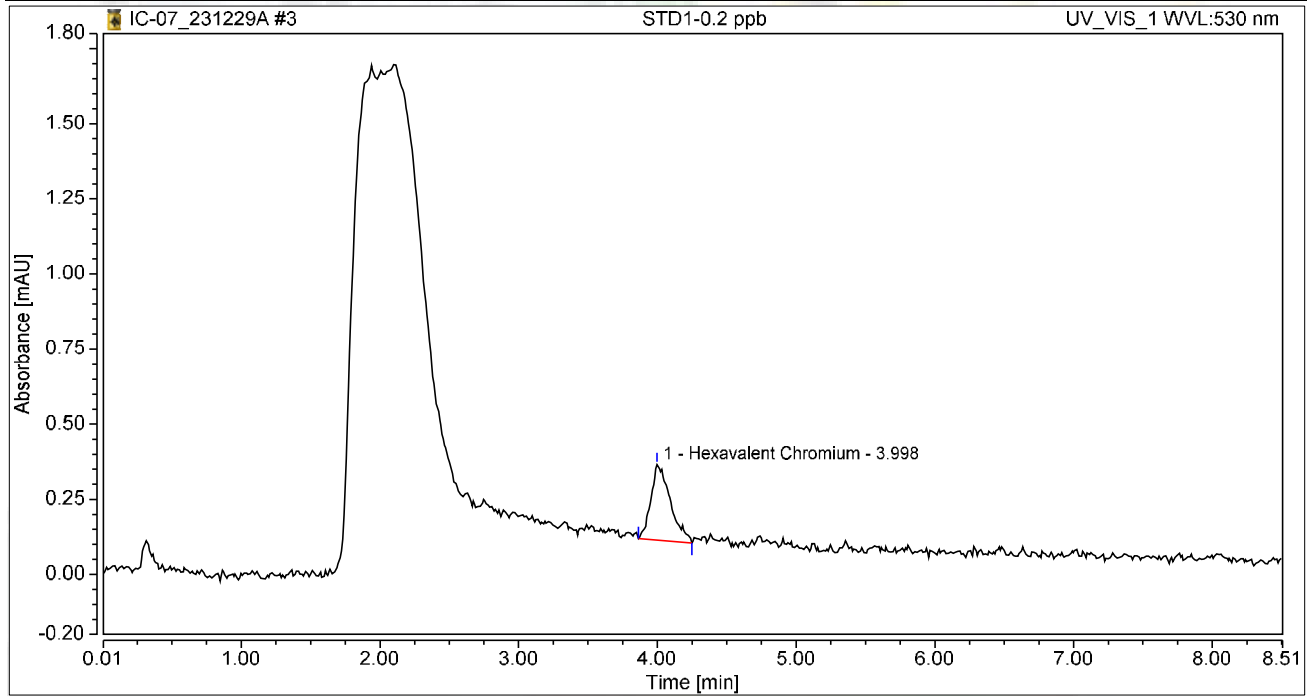
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

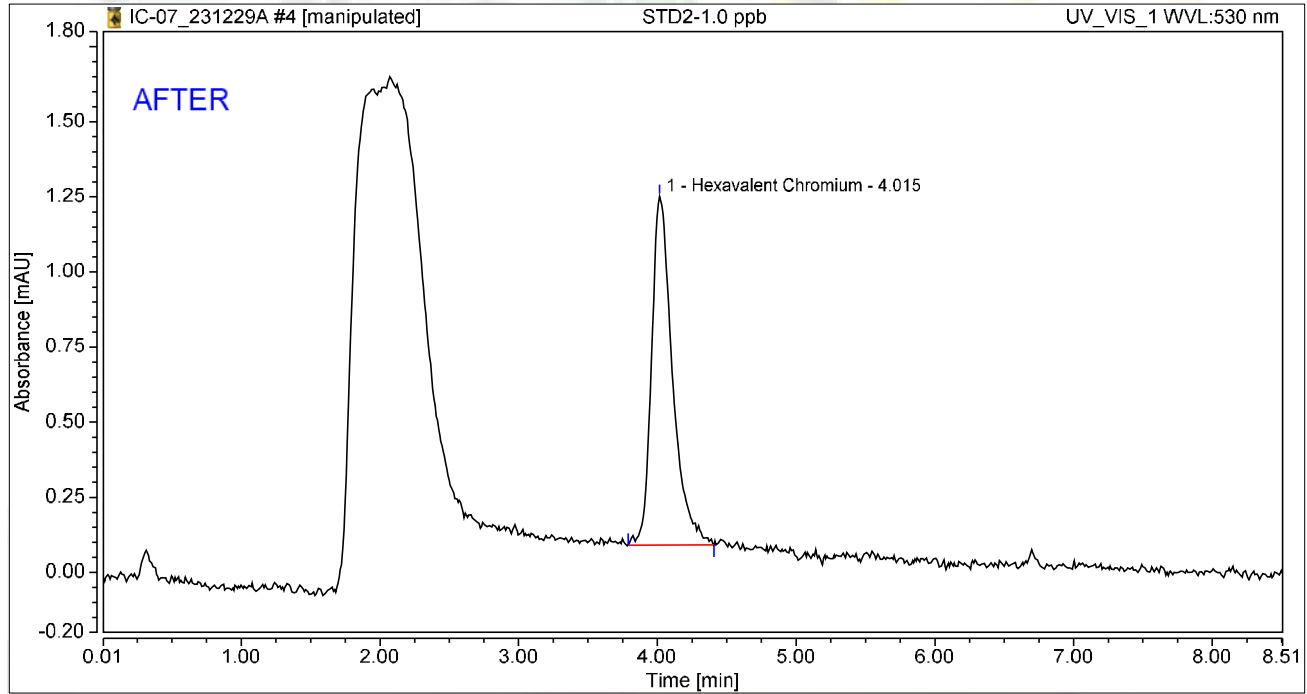
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

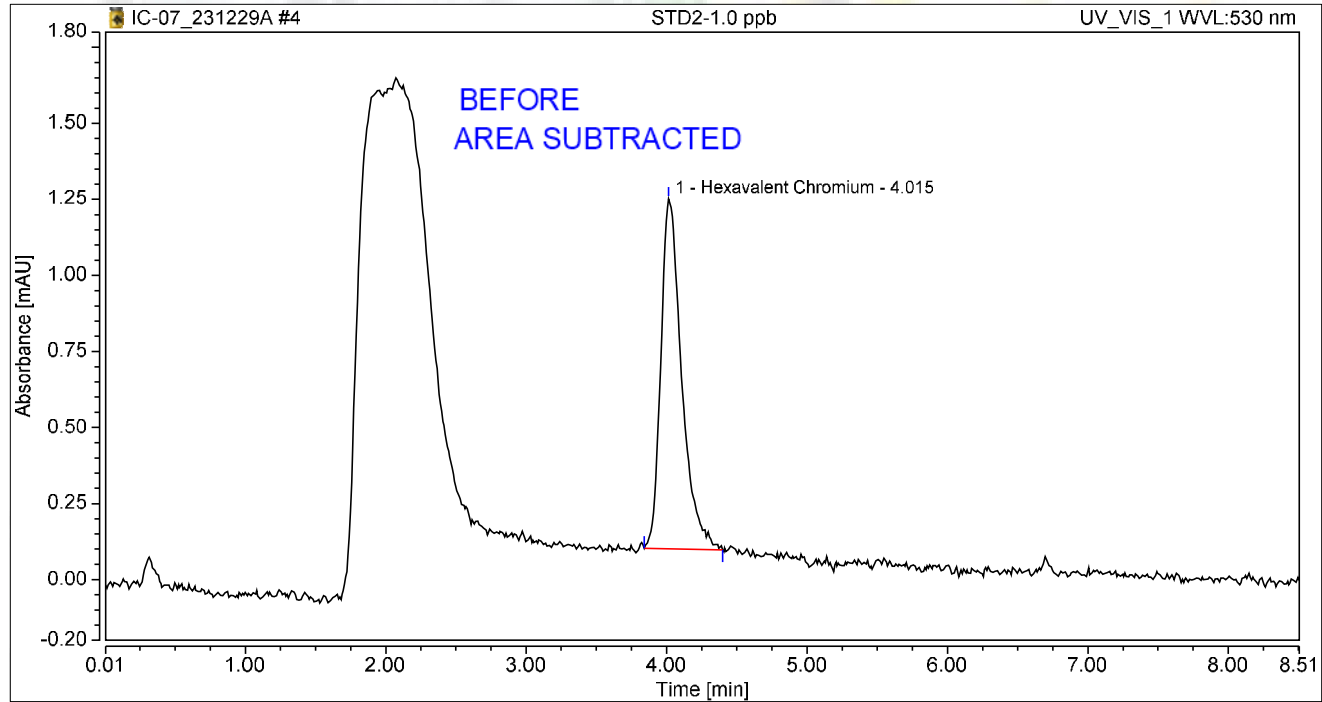
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

Reviewed by
Nancy 01/08/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD2-1.0 ppb	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	02	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight: 1.0000

Chromatogram



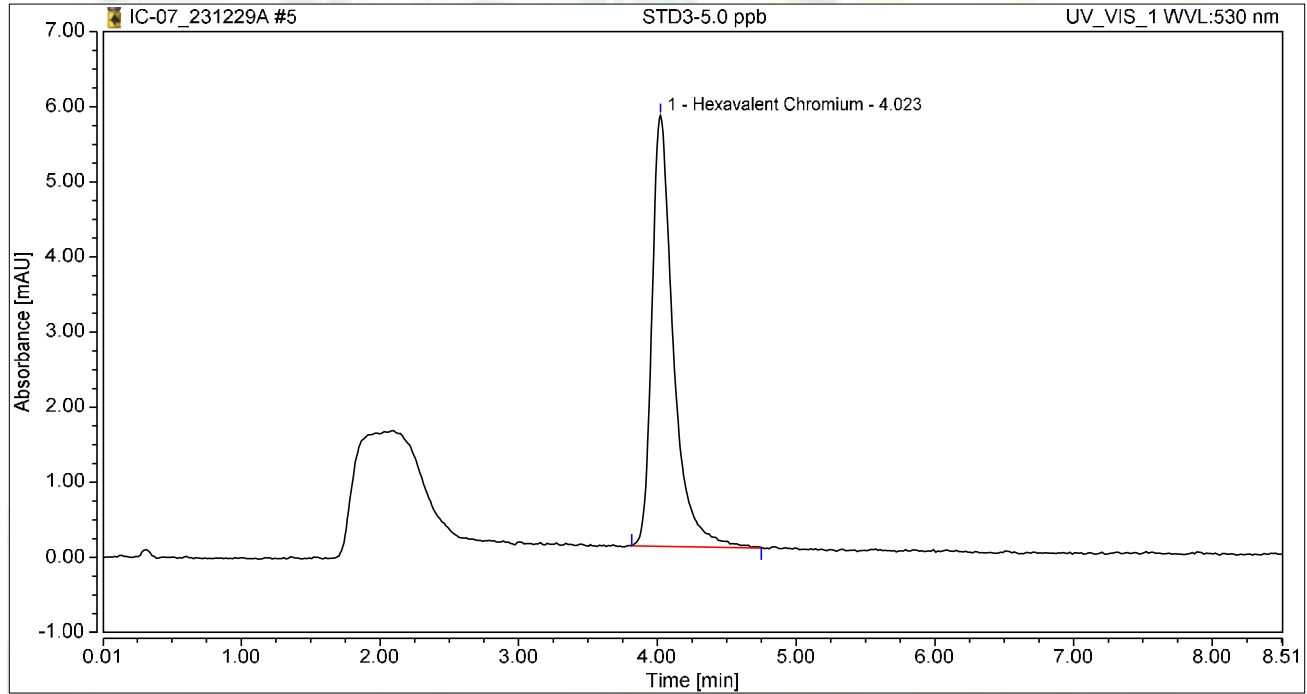
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

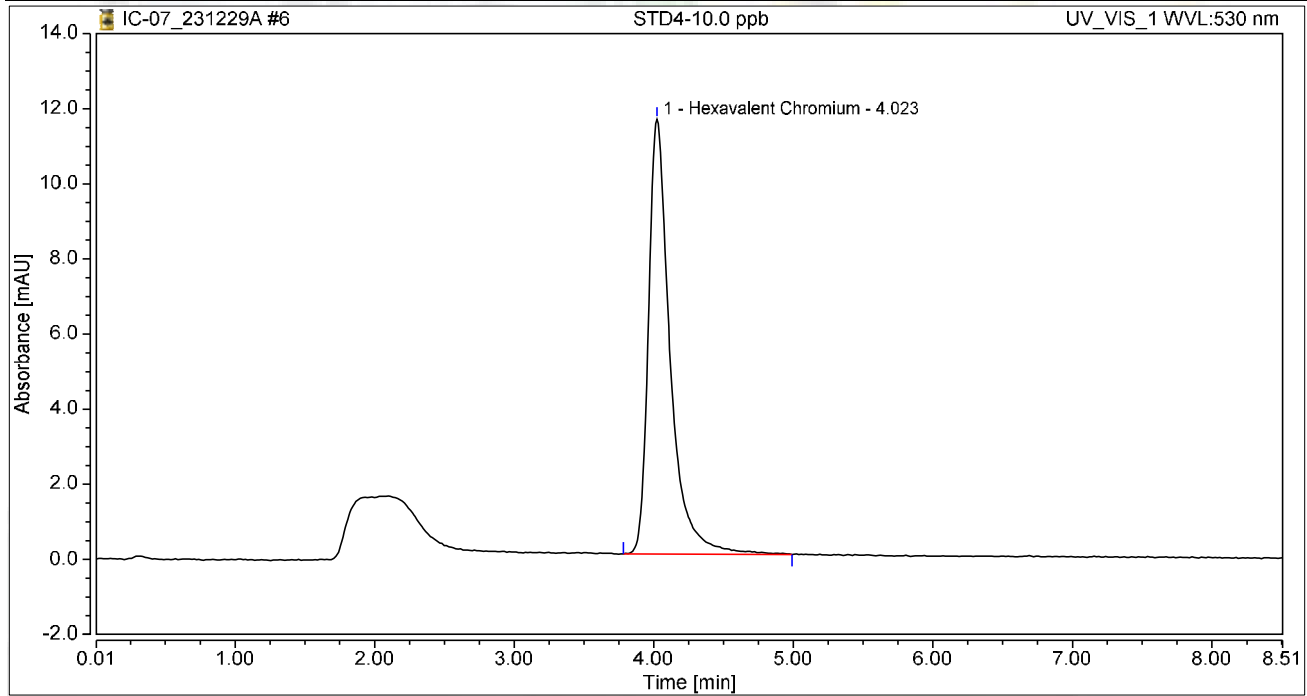
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

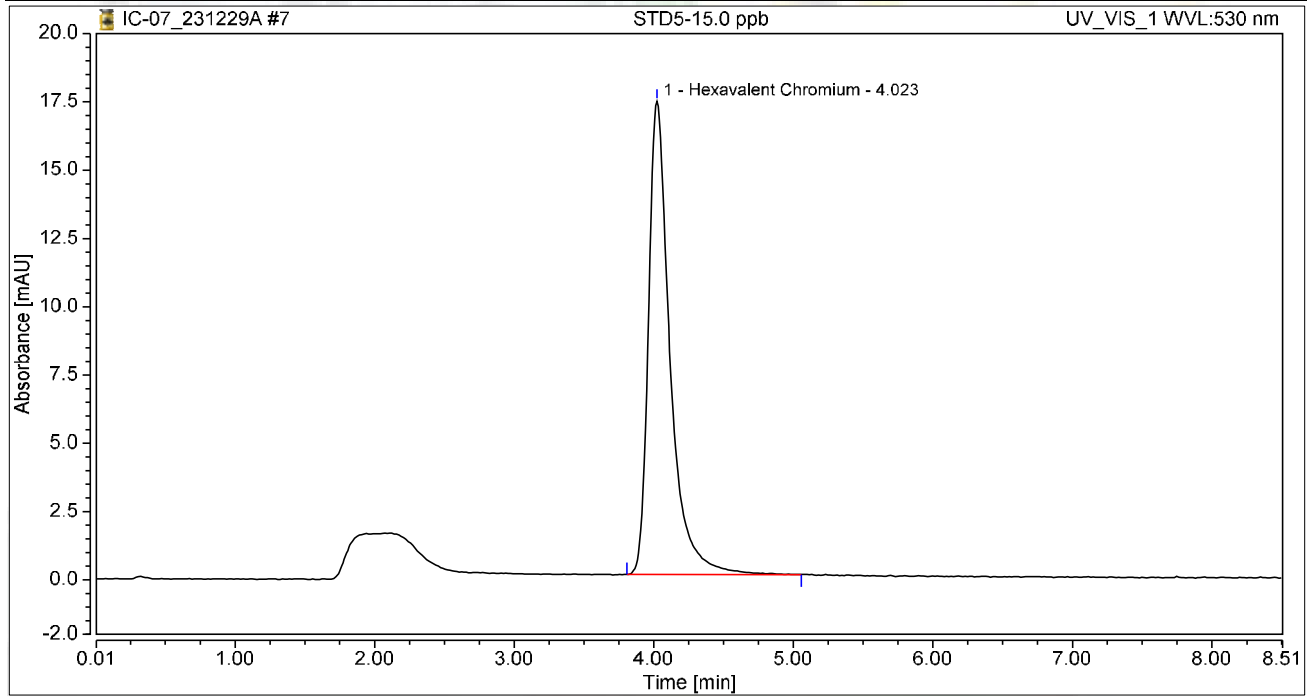
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

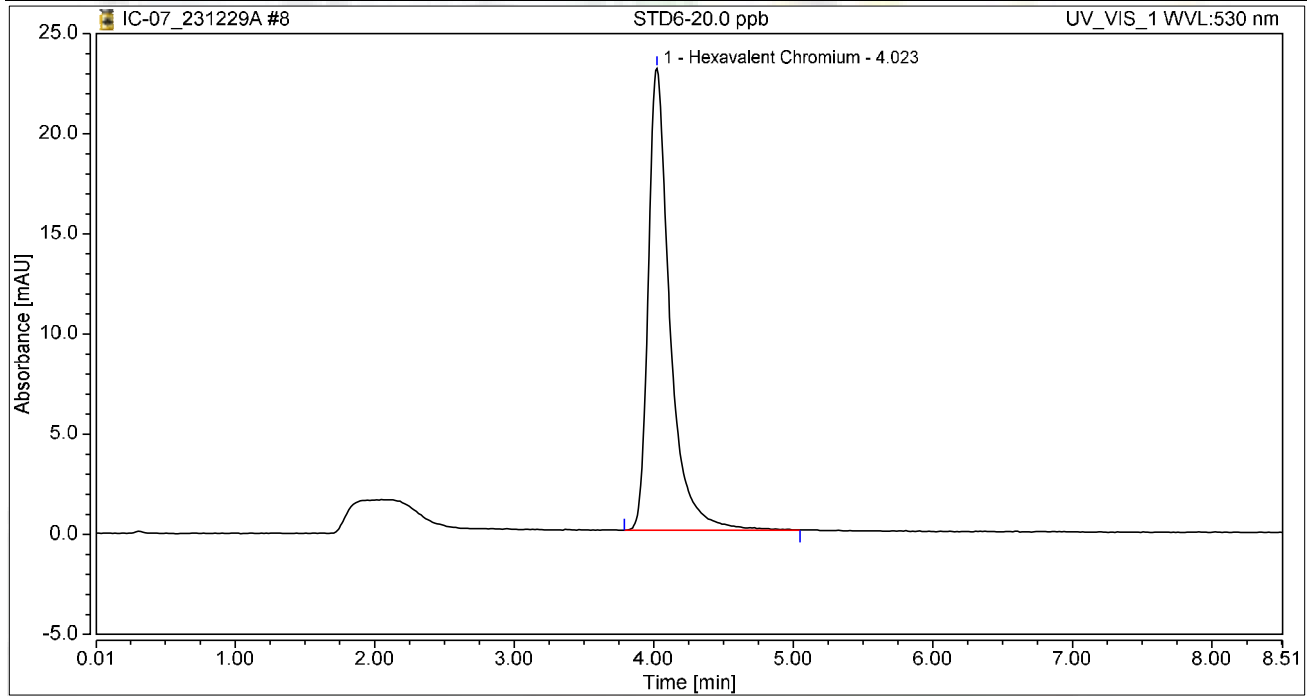
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

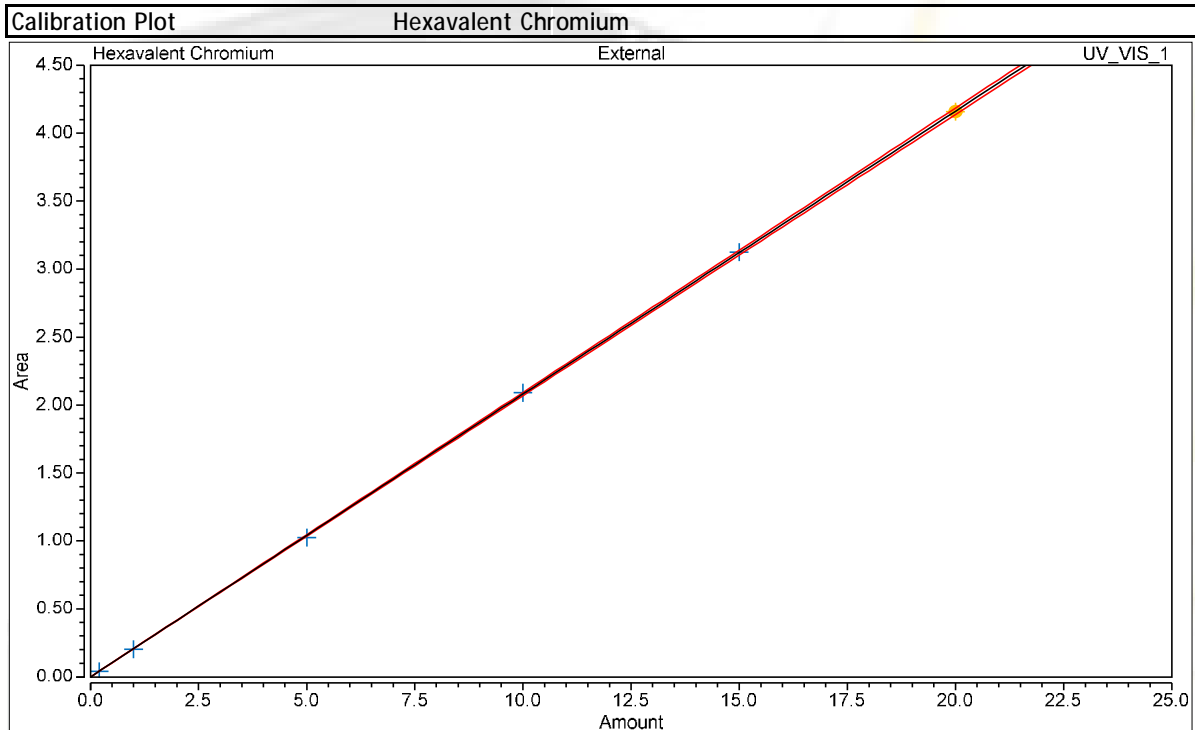
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



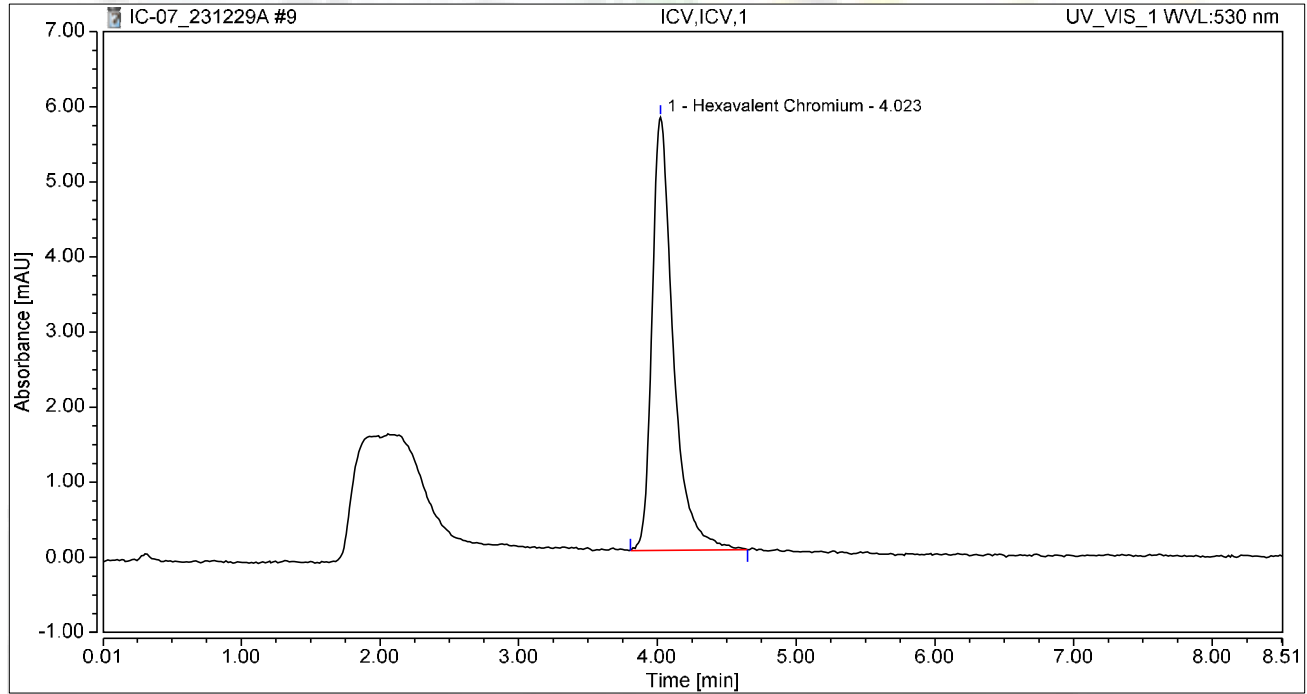
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



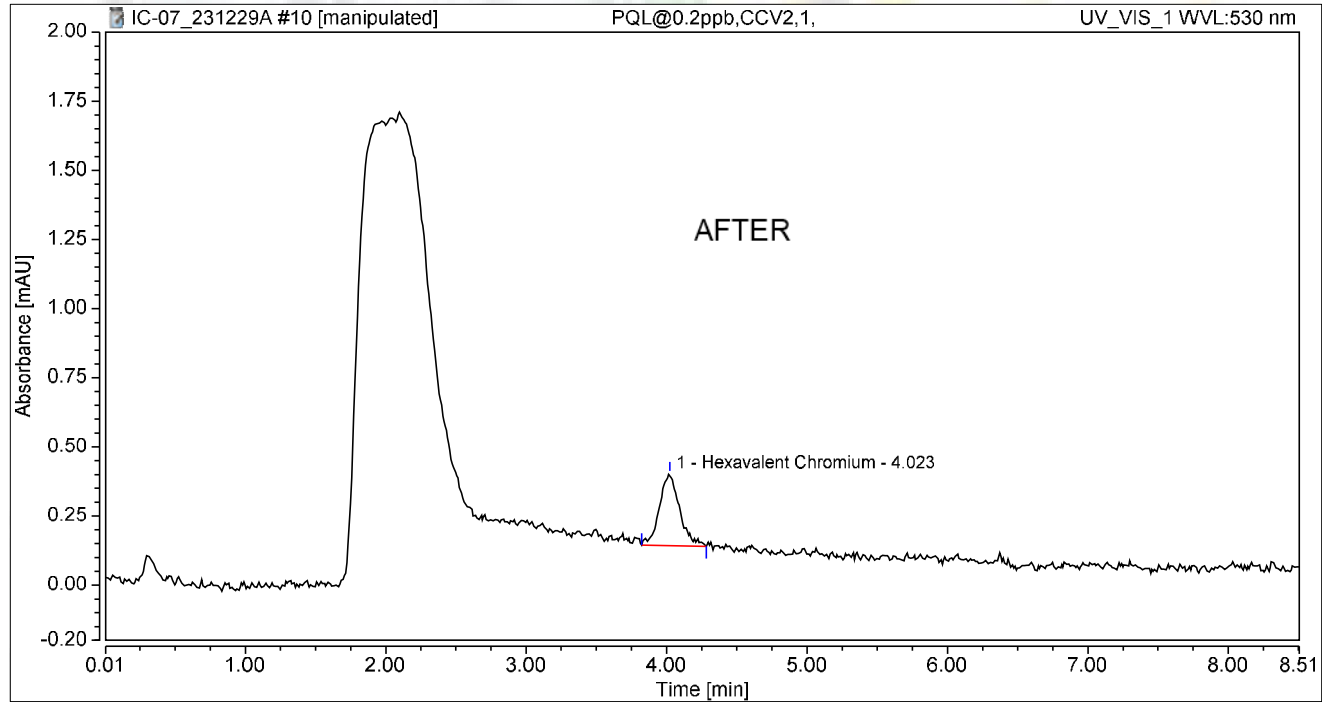
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

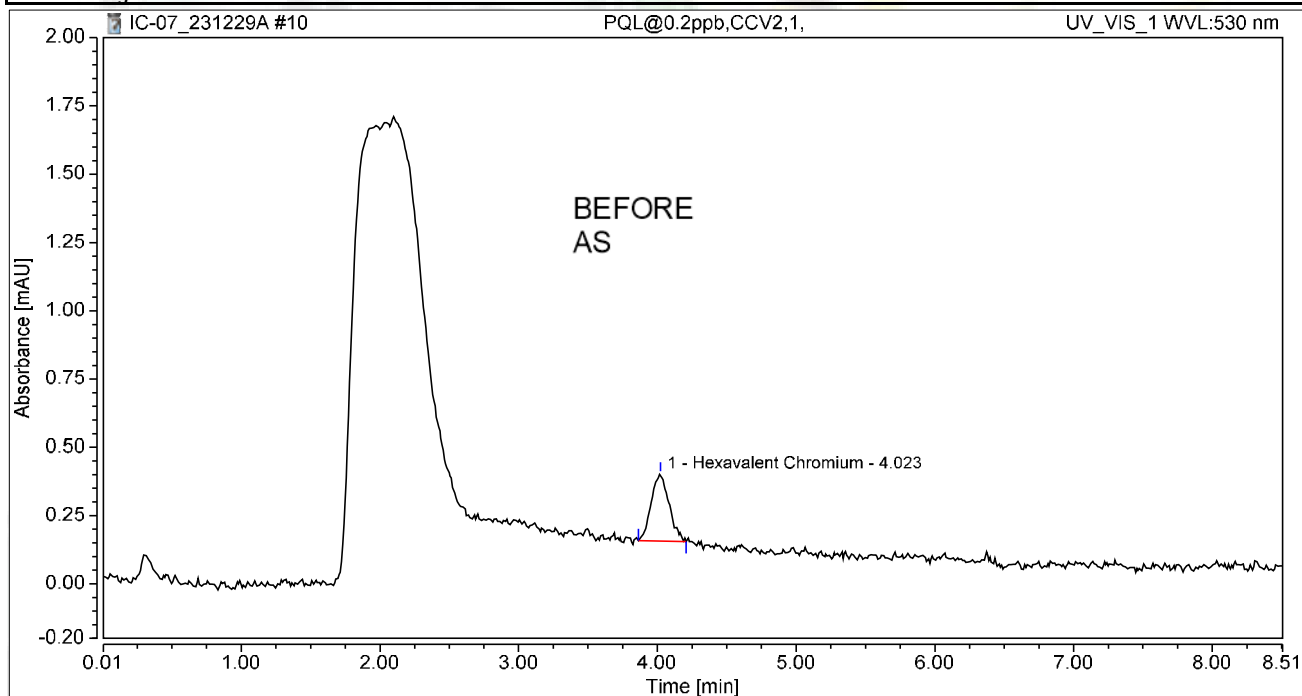
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

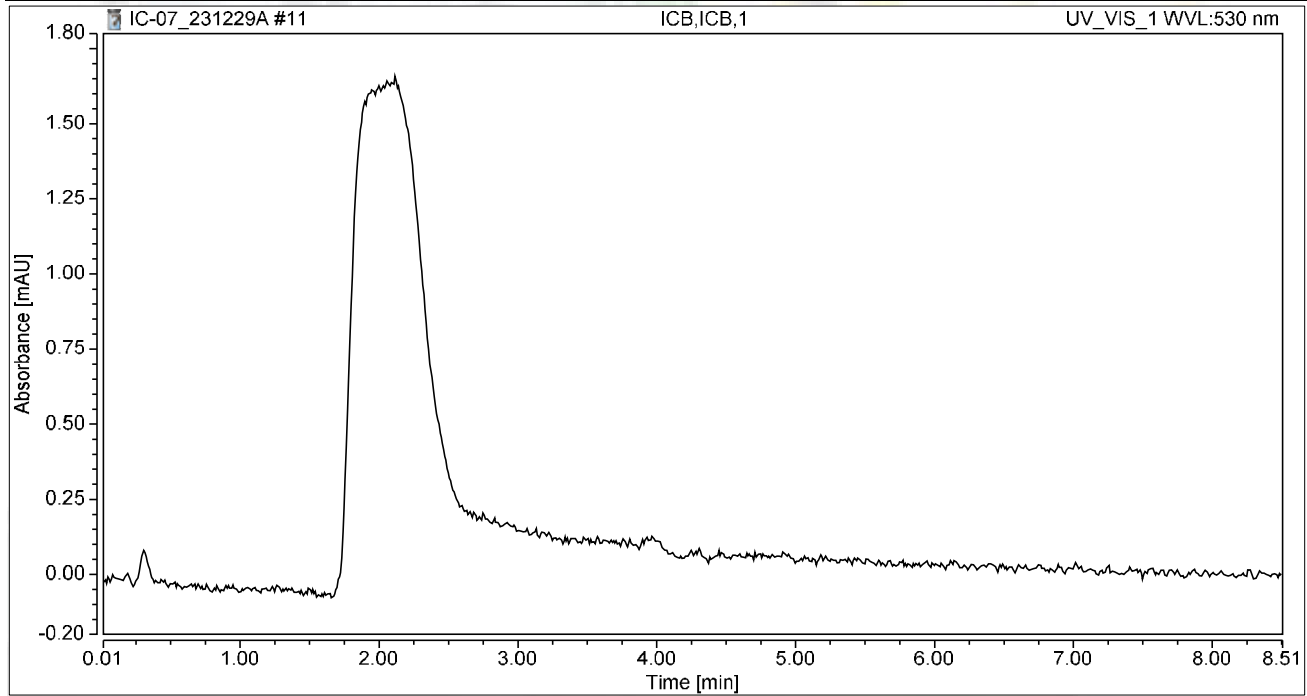
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

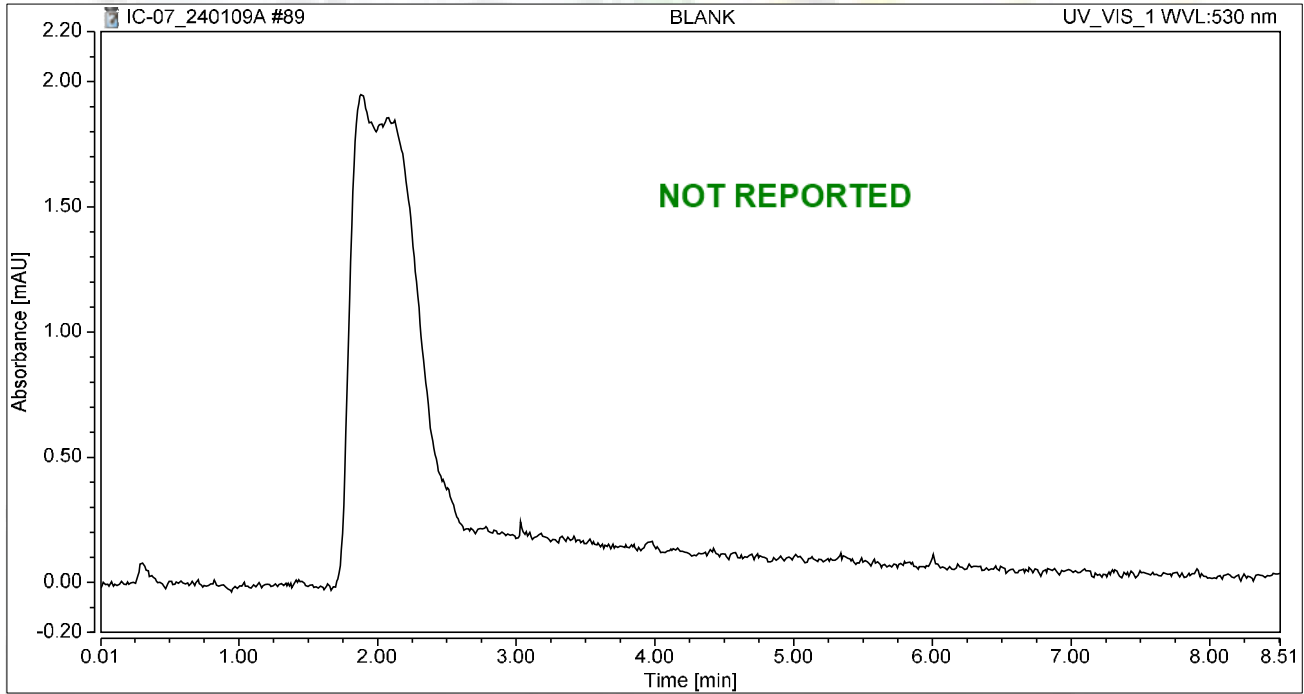


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 01:31	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/09/24 10:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/09/24 10:30 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/09/24 10:39 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/09/24 10:48 AM	Reported
13	MB-R180233	MBLK	1	Hexavalent Chromium	01/09/24 10:58 AM	Reported
14	LCS-R180233	LCS	1	Hexavalent Chromium	01/09/24 11:07 AM	Reported
15	N062241-009A	SAMP	5	Hexavalent Chromium	01/09/24 11:37 AM	Not Reported
16	N062241-009AMS	MS	5	Hexavalent Chromium	01/09/24 11:50 AM	Not Reported
17	N062241-009AMSD	MSD	5	Hexavalent Chromium	01/09/24 11:59 AM	Not Reported
18	N062242-001A	SAMP	1	Hexavalent Chromium	01/09/24 12:09 PM	Reported
19	N062242-001ADUP	DUP	1	Hexavalent Chromium	01/09/24 12:18 PM	Reported
20	N062242-001AMS	MS	1	Hexavalent Chromium	01/09/24 12:28 PM	Reported
21	N062241-009A	SAMP	1	Hexavalent Chromium	01/09/24 12:47 PM	Reported
22	N062241-009AMS	MS	1	Hexavalent Chromium	01/09/24 12:59 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/09/24 1:09 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/09/24 1:18 PM	Reported
25	N062241-009AMSD	MSD	1	Hexavalent Chromium	01/09/24 1:28 PM	Reported
26	N062241-009AMS	MS	5	Hexavalent Chromium	01/09/24 1:37 PM	Not Reported
27	N062241-009AMSD	MSD	5	Hexavalent Chromium	01/09/24 1:47 PM	Not Reported
28	N062241-001A	SAMP	5	Hexavalent Chromium	01/09/24 1:56 PM	Not Reported
29	N062241-001AMS	MS	5	Hexavalent Chromium	01/09/24 2:06 PM	Not Reported
30	N062241-004A	SAMP	5	Hexavalent Chromium	01/09/24 2:15 PM	Reported
31	N062241-004AMS	MS	5	Hexavalent Chromium	01/09/24 2:25 PM	Reported
32	N062194-011A	SAMP	1	Hexavalent Chromium	01/09/24 2:34 PM	Reported
33	N062241-007A	SAMP	1	Hexavalent Chromium	01/09/24 2:44 PM	Reported
34	N062241-007AMS	MS	1	Hexavalent Chromium	01/09/24 2:53 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/09/24 3:02 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/09/24 3:12 PM	Reported
37	N062241-008A	SAMP	1	Hexavalent Chromium	01/09/24 3:21 PM	Not Reported
38	N062241-008AMS	MS	1	Hexavalent Chromium	01/09/24 3:31 PM	Not Reported
39	N062242-002A	SAMP	1	Hexavalent Chromium	01/09/24 3:43 PM	Reported
40	N062242-002AMS	MS	1	Hexavalent Chromium	01/09/24 3:52 PM	Reported
41	N062242-003A	SAMP	1	Hexavalent Chromium	01/09/24 4:03 PM	Reported
42	N062242-003AMS	MS	1	Hexavalent Chromium	01/09/24 4:14 PM	Reported

Nancy 01/15/2024

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062242-004A	SAMP	1	Hexavalent Chromium	01/09/24 4:24 PM	Reported
44	N062242-004AMS	MS	1	Hexavalent Chromium	01/09/24 4:33 PM	Reported
45	N062242-005A	SAMP	1	Hexavalent Chromium	01/09/24 4:43 PM	Reported
46	N062242-005AMS	MS	1	Hexavalent Chromium	01/09/24 4:52 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/09/24 5:02 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/09/24 5:11 PM	Reported
49	N062242-006A	SAMP	1	Hexavalent Chromium	01/09/24 5:21 PM	Reported
50	N062242-006AMS	MS	1	Hexavalent Chromium	01/09/24 5:30 PM	Reported
51	N062242-007A	SAMP	1	Hexavalent Chromium	01/09/24 5:40 PM	Reported
52	N062242-007AMS	MS	1	Hexavalent Chromium	01/09/24 5:50 PM	Reported
53	N062241-002A	SAMP	1	Hexavalent Chromium	01/09/24 7:53 PM	Not Reported
54	N062241-002AMS	MS	1	Hexavalent Chromium	01/09/24 7:54 PM	Not Reported
55	N062241-003A	SAMP	1	Hexavalent Chromium	01/09/24 8:06 PM	Not Reported
56	N062241-003AMS	MS	1	Hexavalent Chromium	01/09/24 8:16 PM	Not Reported
57	N062241-006A	SAMP	1	Hexavalent Chromium	01/09/24 8:25 PM	Not Reported
58	N062241-006AMS	MS	1	Hexavalent Chromium	01/09/24 8:34 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/09/24 8:44 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/09/24 8:53 PM	Reported
61	N062241-005A	SAMP	1	Hexavalent Chromium	01/09/24 9:02 PM	Reported
62	N062241-005AMS	MS	1	Hexavalent Chromium	01/09/24 9:12 PM	Reported
63	N062241-010A	SAMP	1	Hexavalent Chromium	01/09/24 9:21 PM	Reported
64	N062241-010AMS	MS	1	Hexavalent Chromium	01/09/24 9:35 PM	Reported
65	N062241-002A	SAMP	5	Hexavalent Chromium	01/09/24 9:44 PM	Reported
66	N062241-002AMS	MS	5	Hexavalent Chromium	01/09/24 9:53 PM	Reported
67	N062241-003A	SAMP	5	Hexavalent Chromium	01/09/24 10:03 PM	Reported
68	N062241-003AMS	MS	5	Hexavalent Chromium	01/09/24 10:12 PM	Reported
69	N062241-006A	SAMP	5	Hexavalent Chromium	01/09/24 10:22 PM	Reported
70	N062241-006AMS	MS	5	Hexavalent Chromium	01/09/24 10:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/09/24 10:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/09/24 10:50 PM	Reported
73	N062210-001A	SAMP	5	Hexavalent Chromium	01/09/24 10:59 PM	Reported
74	N062192-001A	SAMP	1	Hexavalent Chromium	01/09/24 11:09 PM	Reported
75	N062241-001A	SAMP	1	Hexavalent Chromium	01/09/24 11:18 PM	Reported
76	N062241-001AMS	MS	1	Hexavalent Chromium	01/09/24 11:28 PM	Reported
77	N062190-004A	SAMP	1	Hexavalent Chromium	01/09/24 11:37 PM	Not Reported
78	N062190-004AMS	MS	1	Hexavalent Chromium	01/09/24 11:47 PM	Not Reported
79	N062194-001A	SAMP	5	Hexavalent Chromium	01/09/24 11:56 PM	Not Reported
80	N062194-001AMS	MS	5	Hexavalent Chromium	01/10/24 12:06 AM	Not Reported
81	N062194-005A	SAMP	1	Hexavalent Chromium	01/10/24 12:15 AM	Not Reported
82	N062194-005AMS	MS	1	Hexavalent Chromium	01/10/24 12:25 AM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/10/24 12:34 AM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/10/24 12:44 AM	Reported

INJECTION LOG: 240109A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062194-011A	SAMP	1	Hexavalent Chromium	01/10/24 12:53 AM	Not Reported
86	N062194-011AMS	MS	1	Hexavalent Chromium	01/10/24 1:02 AM	Not Reported
87	N062194-012A	SAMP	1	Hexavalent Chromium	01/10/24 1:12 AM	Not Reported
88	N062194-012AMS	MS	1	Hexavalent Chromium	01/10/24 1:21 AM	Not Reported
89	BLANK	BLANK	1	Hexavalent Chromium	01/10/24 1:31 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240109A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	10/Jan/24 15:38:25
No. of Injections:	92	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/09/2024 10:17	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/09/2024 10:30	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/09/2024 10:39	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/09/2024 10:48	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/09/2024 10:58	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/09/2024 11:07	Finished	LCS @5ppb, IWST-231228B
15	N062241-009A,SAMF	1	1000	Unknown		01/09/2024 11:37	Finished	SAMP,2>10 mL
16	N062241-009AMS,MS	2	1000	Unknown		01/09/2024 11:50	Finished	MS (5ppb), IWST-231228B,2>
17	N062241-009AMSD,MS	3	1000	Unknown		01/09/2024 11:59	Finished	MSD (5ppb), IWST-231228B,2>
18	N062242-001A,SAMF	4	1000	Unknown		01/09/2024 12:09	Finished	SAMP,10 mL
19	N062242-001ADUP,D	5	1000	Unknown		01/09/2024 12:18	Finished	DUP,10 mL
20	N062242-001AMS,MS	6	1000	Unknown		01/09/2024 12:28	Finished	MS (1ppb), IWST-231228B,10r
21	N062241-009A,SAMF	1	1000	Unknown		01/09/2024 12:47	Finished	SAMP,10 mL
22	N062241-009AMS,MS	2	1000	Unknown		01/09/2024 12:59	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2,CCV1,1,	3	1000	Unknown		01/09/2024 13:09	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	4	1000	Unknown		01/09/2024 13:18	Finished	CCB R231030A
25	N062241-009AMSD,MS	5	1000	Unknown		01/09/2024 13:28	Finished	MSD (1ppb), IWST-231228B,1
26	N062241-009AMS,MS	6	1000	Unknown		01/09/2024 13:37	Finished	MS (1ppb), IWST-231228B,2>
27	N062241-009AMSD,MS	7	1000	Unknown		01/09/2024 13:47	Finished	MSD (1ppb), IWST-231228B,2>
28	N062241-001A,SAMF	8	1000	Unknown		01/09/2024 13:56	Finished	SAMP,2>10 mL
29	N062241-001AMS,MS	9	1000	Unknown		01/09/2024 14:06	Finished	MS (5ppb), IWST-231228B,2>
30	N062241-004A,SAMF	10	1000	Unknown		01/09/2024 14:15	Finished	SAMP,2>10 mL
31	N062241-004AMS,MS	11	1000	Unknown		01/09/2024 14:25	Finished	MS (5ppb), IWST-231228B,2>
32	N062194-011A,SAMF	12	1000	Unknown		01/09/2024 14:34	Finished	SAMP,10 mL
33	N062241-007A,SAMF	13	1000	Unknown		01/09/2024 14:44	Finished	SAMP,10 mL
34	N062241-007AMS,MS	14	1000	Unknown		01/09/2024 14:53	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	15	1000	Unknown		01/09/2024 15:02	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	16	1000	Unknown		01/09/2024 15:12	Finished	CCB R231030A
37	N062241-008A,SAMF	17	1000	Unknown		01/09/2024 15:21	Finished	SAMP,10 mL
38	N062241-008AMS,MS	18	1000	Unknown		01/09/2024 15:31	Finished	MS (1ppb), IWST-231228B,10r
39	N062242-002A,SAMF	19	1000	Unknown		01/09/2024 15:43	Finished	SAMP,10 mL
40	N062242-002AMS,MS	20	1000	Unknown		01/09/2024 15:52	Finished	MS (1ppb), IWST-231228B,10r
41	N062242-003A,SAMF	1	1000	Unknown		01/09/2024 16:03	Finished	SAMP,10 mL
42	N062242-003AMS,MS	2	1000	Unknown		01/09/2024 16:14	Finished	MS (1ppb), IWST-231228B,10r
43	N062242-004A,SAMF	3	1000	Unknown		01/09/2024 16:24	Finished	SAMP,10 mL
44	N062242-004AMS,MS	4	1000	Unknown		01/09/2024 16:33	Finished	MS (1ppb), IWST-231228B,10r
45	N062242-005A,SAMF	5	1000	Unknown		01/09/2024 16:43	Finished	SAMP,10 mL
46	N062242-005AMS,MS	6	1000	Unknown		01/09/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	7	1000	Unknown		01/09/2024 17:02	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	8	1000	Unknown		01/09/2024 17:11	Finished	CCB R231030A
49	N062242-006A,SAMF	9	1000	Unknown		01/09/2024 17:21	Finished	SAMP,10 mL
50	N062242-006AMS,MS	10	1000	Unknown		01/09/2024 17:30	Finished	MS (1ppb), IWST-231228B,10r
51	N062242-007A,SAMF	11	1000	Unknown		01/09/2024 17:40	Finished	SAMP,10 mL
52	N062242-007AMS,MS	12	1000	Unknown		01/09/2024 17:50	Interrupted	MS (1ppb), IWST-231228B,10r
53	N062241-002A,SAMF	13	1000	Unknown		01/09/2024 19:53	Interrupted	SAMP,10 mL
54	N062241-002AMS,MS	14	1000	Unknown		01/09/2024 19:54	Finished	MS (5ppb), IWST-231228B,10r
55	N062241-003A,SAMF	15	1000	Unknown		01/09/2024 20:06	Finished	SAMP,10 mL
56	N062241-003AMS,MS	16	1000	Unknown		01/09/2024 20:16	Finished	MS (1ppb), IWST-231228B,10r
57	N062241-006A,SAMF	17	1000	Unknown		01/09/2024 20:25	Finished	SAMP,10 mL
58	N062241-006AMS,MS	18	1000	Unknown		01/09/2024 20:34	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	19	1000	Unknown		01/09/2024 20:44	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	20	1000	Unknown		01/09/2024 20:53	Finished	CCB R231227C

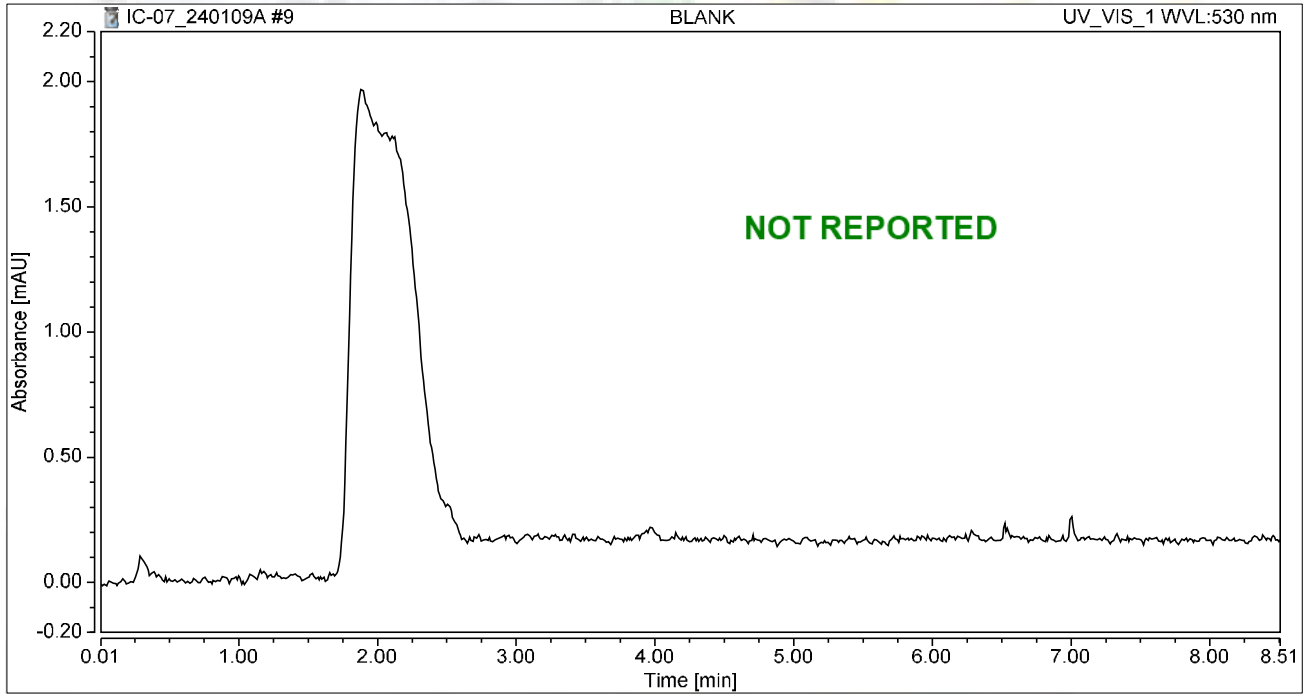
61	N062241-005A,SAMF	21	1000	Unknown	01/09/2024 21:02	Finished	SAMP,10 mL
62	N062241-005AMS,M\$	22	1000	Unknown	01/09/2024 21:12	Finished	MS (1ppb), IWST-231228B,10r
63	N062241-010A,SAMF	23	1000	Unknown	01/09/2024 21:21	Finished	SAMP,10 mL
64	N062241-010AMS,M\$	24	1000	Unknown	01/09/2024 21:35	Finished	MS (1ppb), IWST-231228B,10r
65	N062241-002A,SAMF	25	1000	Unknown	01/09/2024 21:44	Finished	SAMP,2>10 mL
66	N062241-002AMS,M\$	26	1000	Unknown	01/09/2024 21:53	Finished	MS (1ppb), IWST-231228B,2>
67	N062241-003A,SAMF	27	1000	Unknown	01/09/2024 22:03	Finished	SAMP,2>10 mL
68	N062241-003AMS,M\$	28	1000	Unknown	01/09/2024 22:12	Finished	MS (1ppb), IWST-231228B,2>
69	N062241-006A,SAMF	29	1000	Unknown	01/09/2024 22:22	Finished	SAMP,2>10 mL
70	N062241-006AMS,M\$	30	1000	Unknown	01/09/2024 22:31	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV,1,	31	1000	Unknown	01/09/2024 22:41	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	32	1000	Unknown	01/09/2024 22:50	Finished	CCB R231227C
73	N062210-001A,SAMF	33	1000	Unknown	01/09/2024 22:59	Finished	SAMP,2>10 mL
74	N062192-001A,SAMF	34	1000	Unknown	01/09/2024 23:09	Finished	SAMP,10 mL
75	N062241-001A,SAMF	35	1000	Unknown	01/09/2024 23:18	Finished	SAMP,10 mL
76	N062241-001AMS,M\$	36	1000	Unknown	01/09/2024 23:28	Finished	MS (5ppb), IWST-231228B,10r
77	N062190-004A,SAMF	37	1000	Unknown	01/09/2024 23:37	Finished	MS (5ppb), IWST-231228B,10r
78	N062190-004AMS,M\$	38	1000	Unknown	01/09/2024 23:47	Finished	MS (5ppb), IWST-231228B,10r
79	N062194-001A,SAMF	39	1000	Unknown	01/09/2024 23:56	Finished	MS (5ppb), IWST-231228B,10r
80	N062194-001AMS,M\$	40	1000	Unknown	01/10/2024 00:06	Finished	MS (5ppb), IWST-231228B,10r
81	N062194-005A,SAMF	41	1000	Unknown	01/10/2024 00:15	Finished	MS (5ppb), IWST-231228B,10r
82	N062194-005AMS,M\$	42	1000	Unknown	01/10/2024 00:25	Finished	MS (5ppb), IWST-231228B,10r
83	CCV-7,CCV,1,	43	1000	Unknown	01/10/2024 00:34	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	44	1000	Unknown	01/10/2024 00:44	Finished	CCB R231227C
85	N062194-011A,SAMF	45	1000	Unknown	01/10/2024 00:53	Finished	CCB R231227C
86	N062194-011AMS,M\$	46	1000	Unknown	01/10/2024 01:02	Finished	CCB R231227C
87	N062194-012A,SAMF	47	1000	Unknown	01/10/2024 01:12	Finished	CCB R231227C
88	N062194-012AMS,M\$	48	1000	Unknown	01/10/2024 01:21	Finished	CCB R231227C
89	BLANK	49	1000	Unknown	01/10/2024 01:31	Finished	BLANK
90	SHUTDOWN	50	1000	Unknown	01/10/2024 01:40	Interrupted	
91	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
92	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 10:17	Sample Weight:	1.0000

Chromatogram

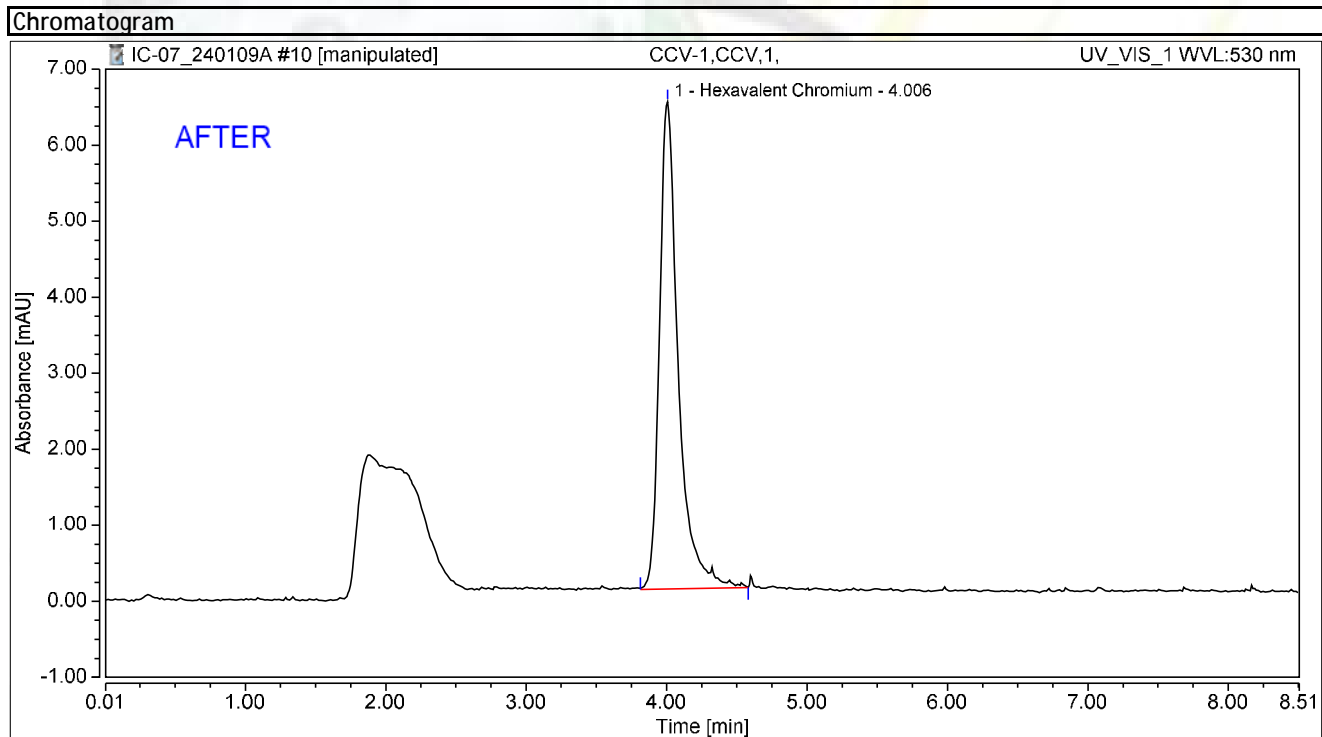


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-1,CCV,1,	Run Time (min): 8.50
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Jan/24 10:30	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.994	6.406	100.00	100.00	4.7747
Total:			0.994	6.406	100.00	100.00	

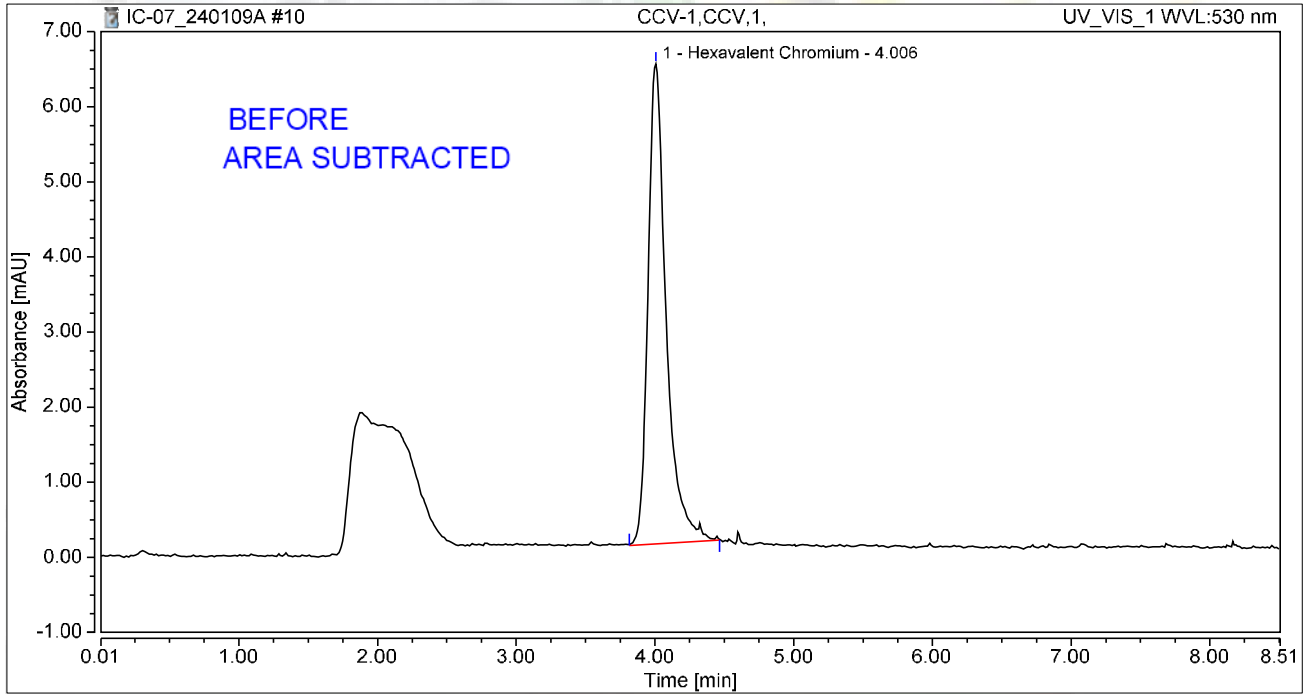
Reviewed by
Murphy
 My first report Integration
 01/15/2024

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

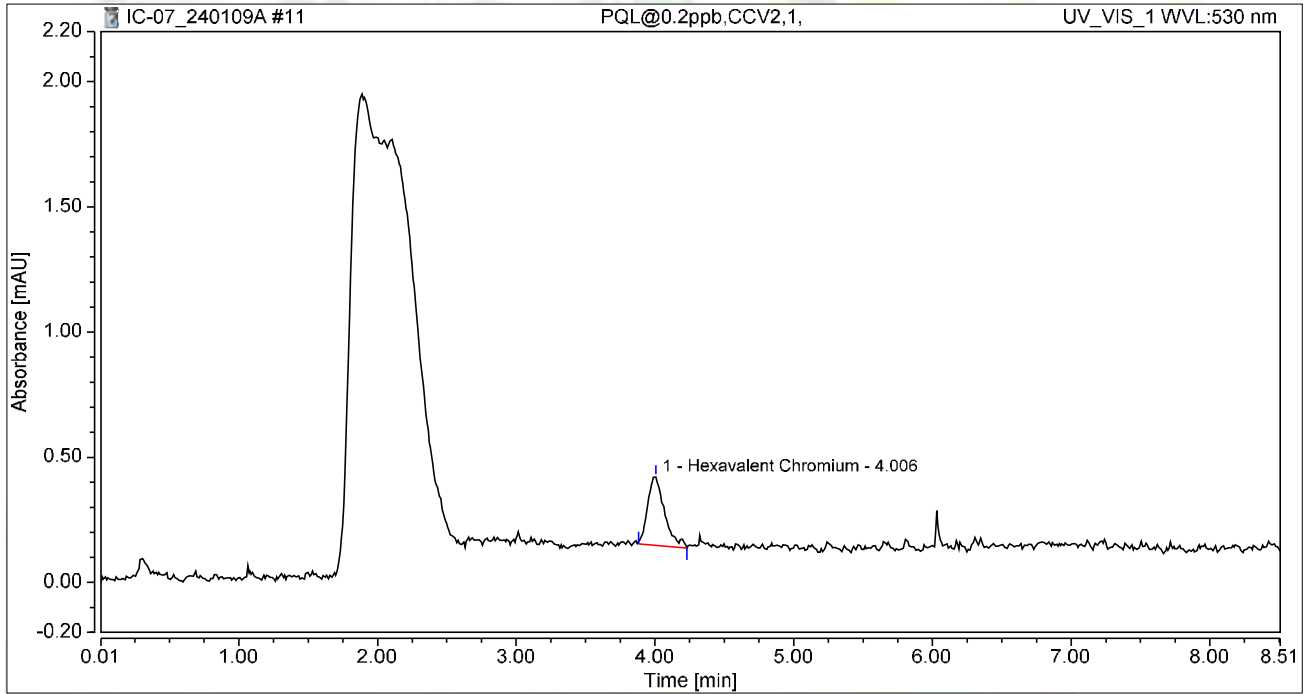
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.971	6.389	100.00	100.00	4.6675
Total:			0.971	6.389	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

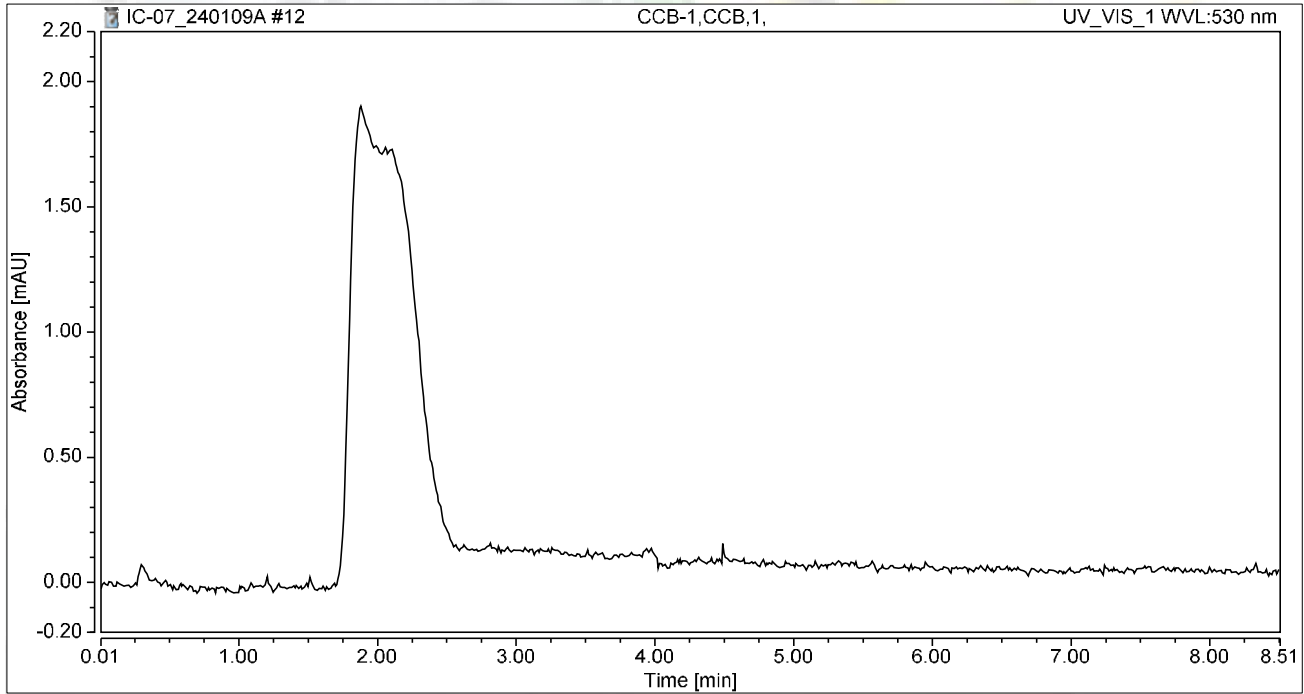
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.039	0.272	100.00	100.00	0.1851
Total:			0.039	0.272	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

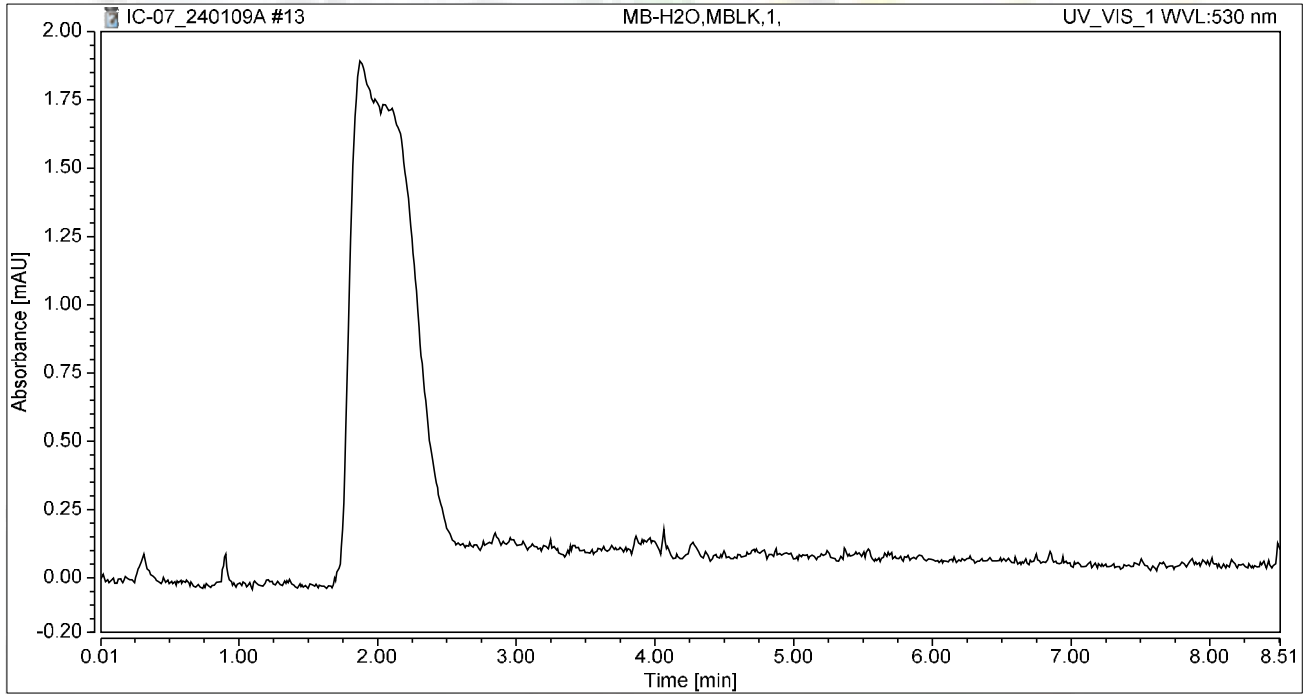
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 10:58	Sample Weight:	1.0000

Chromatogram



Integration Results

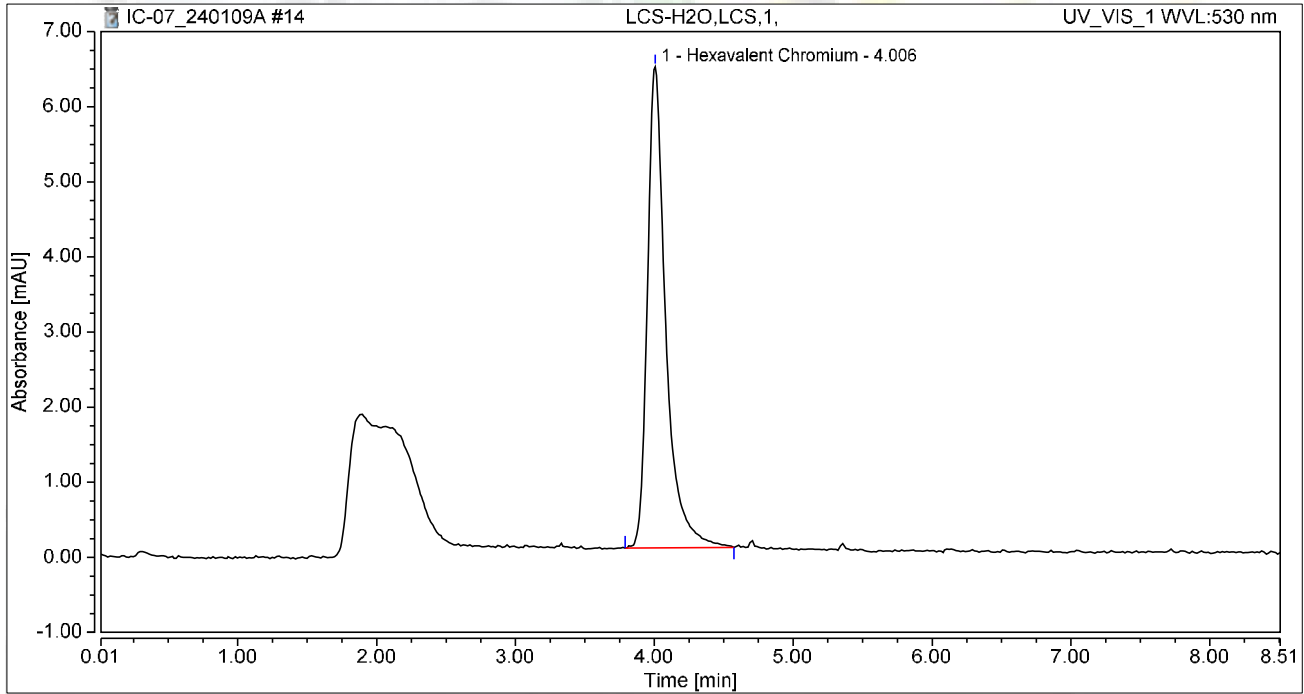
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 11:07	Sample Weight:	1.0000

Chromatogram

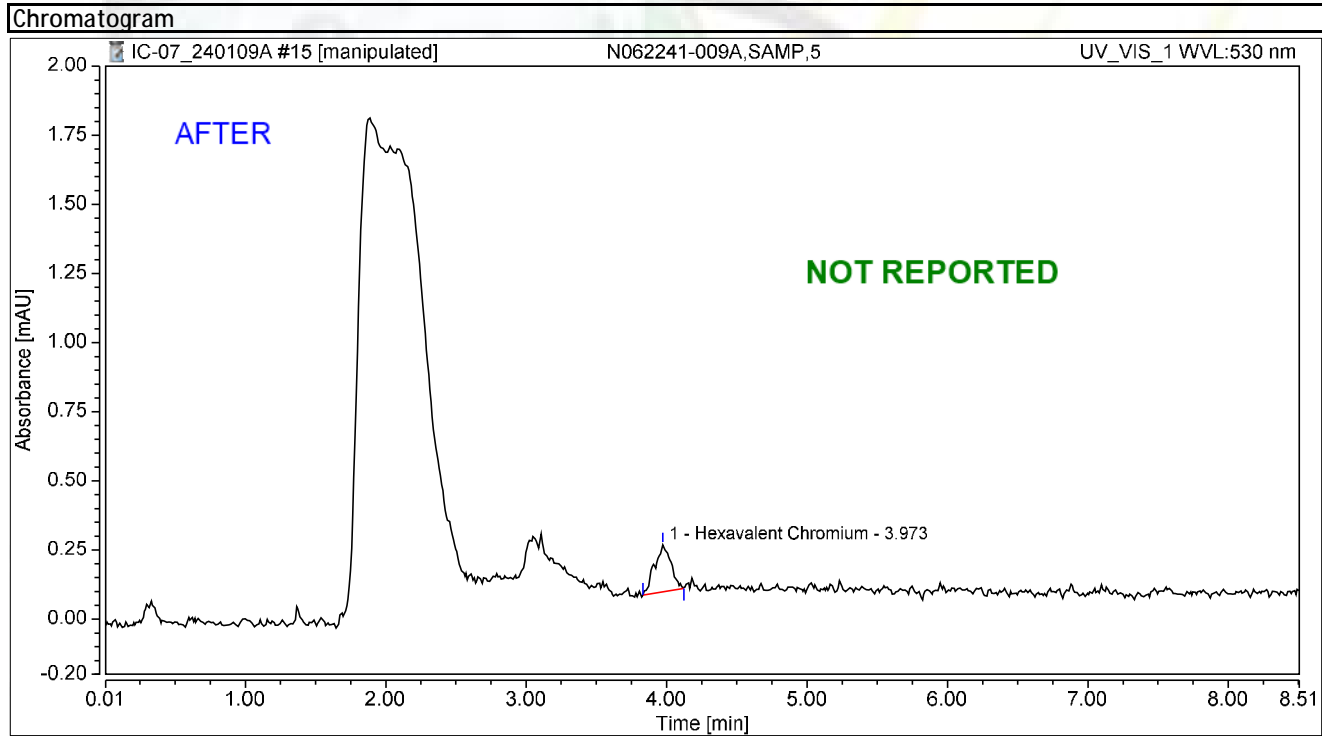


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.986	6.406	100.00	100.00	4.7388
Total:			0.986	6.406	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062241-009A,SAMP,5	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Jan/24 11:37	Sample Weight: 1.0000



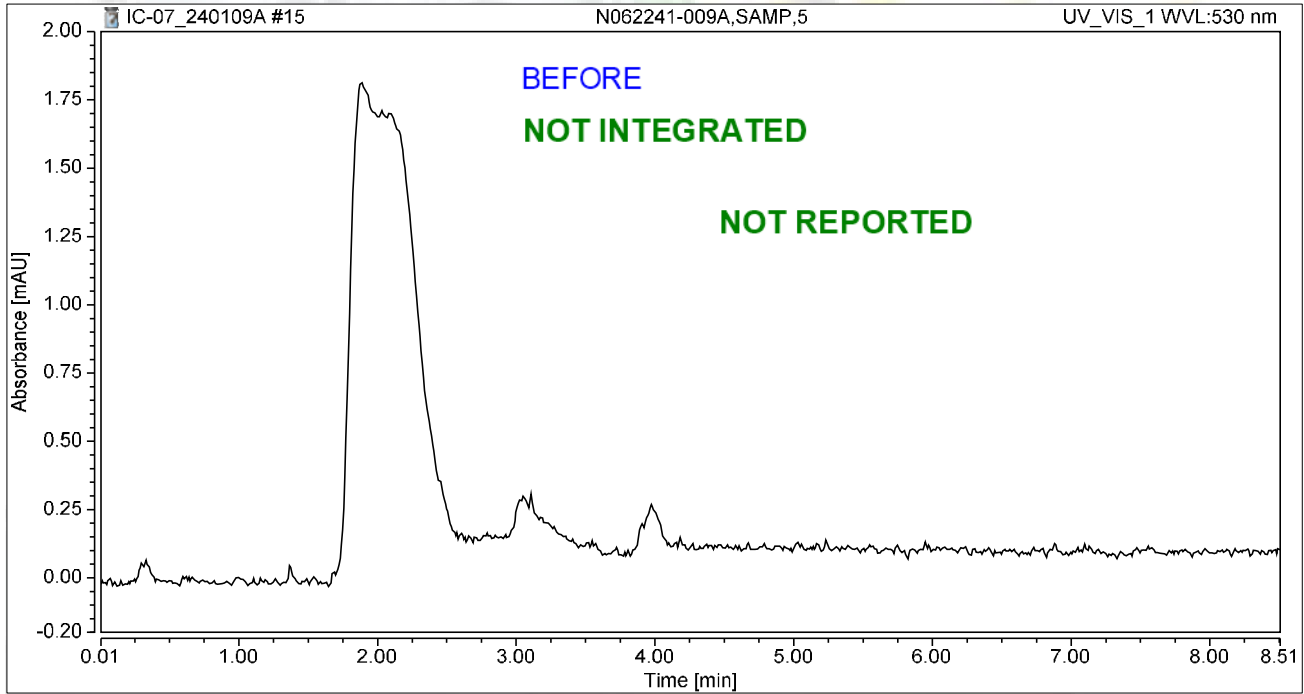
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.023	0.170	100.00	100.00	0.1105
Total:			0.023	0.170	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

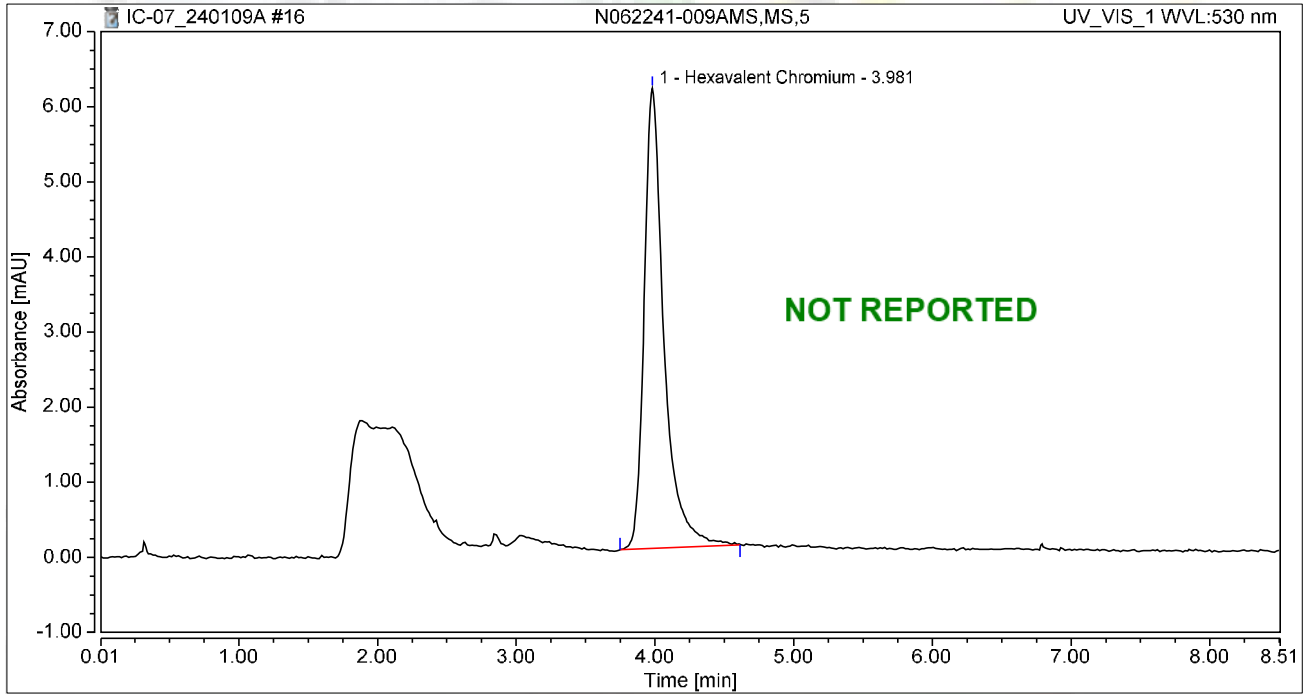
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 11:50	Sample Weight:	1.0000

Chromatogram



Integration Results

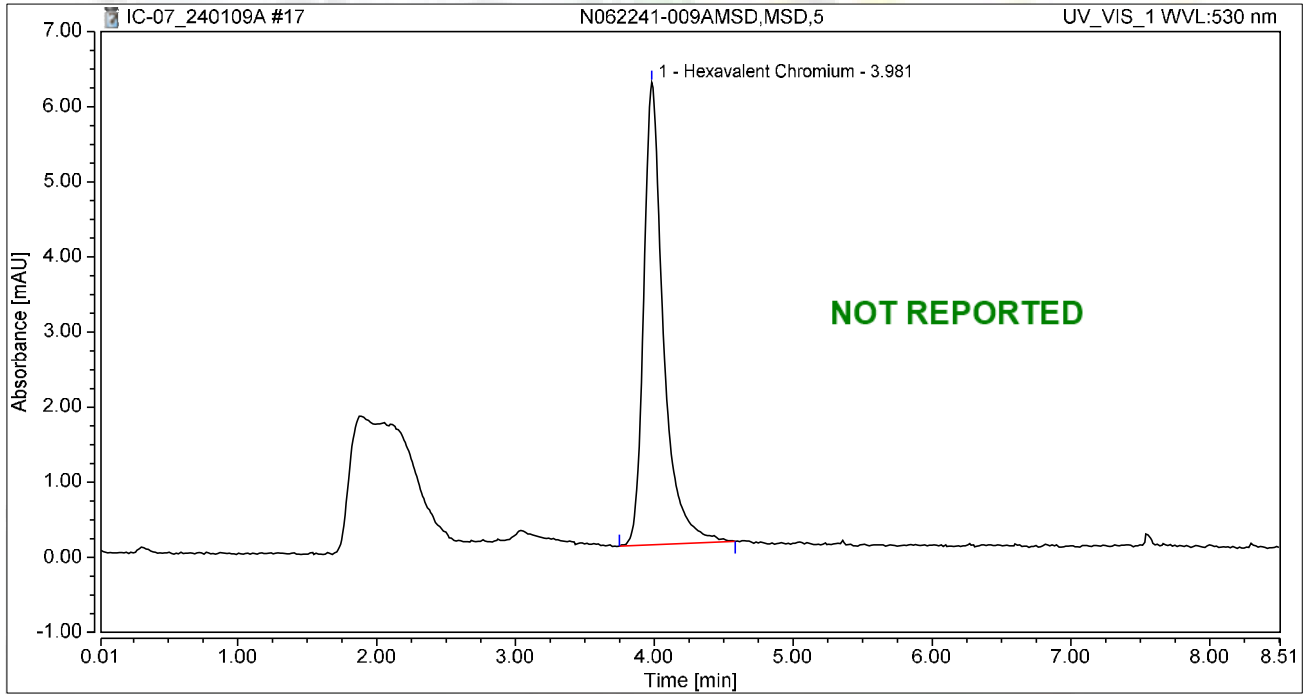
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.017	6.129	100.00	100.00	4.8857
Total:			1.017	6.129	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMSD,MSD,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 11:59	Sample Weight:	1.0000

Chromatogram



Integration Results

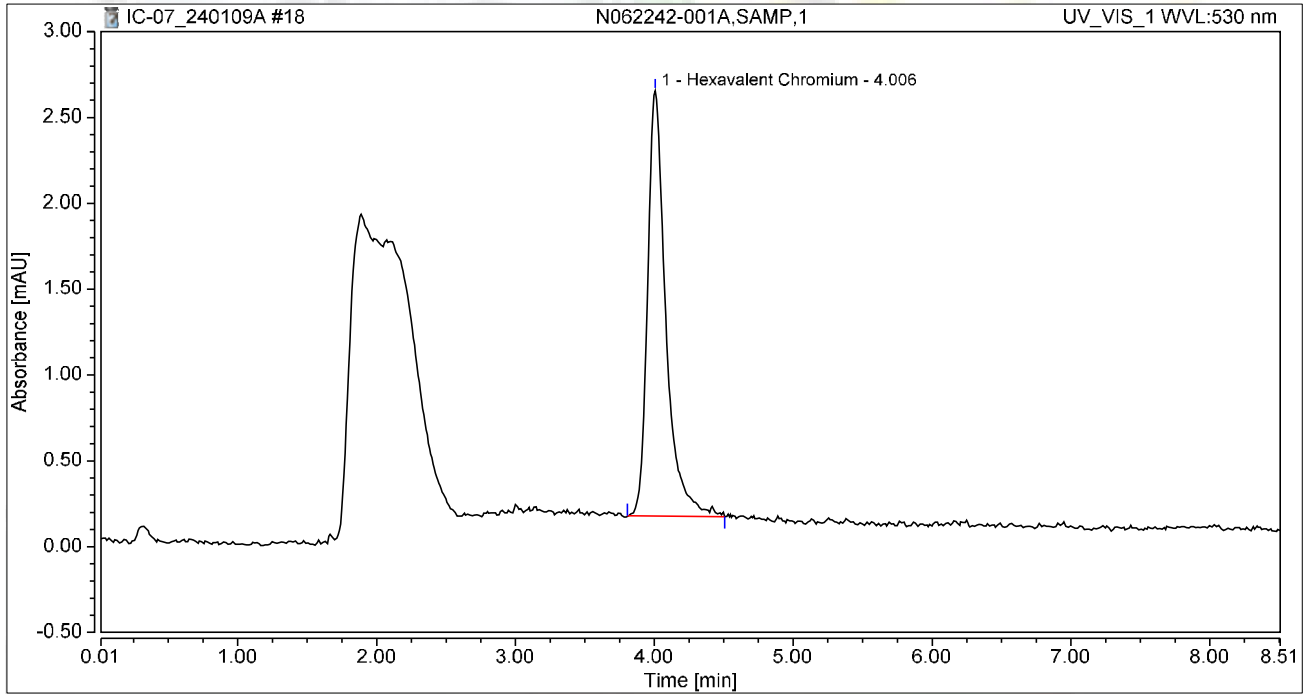
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.018	6.159	100.00	100.00	4.8902
Total:			1.018	6.159	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 12:09	Sample Weight:	1.0000

Chromatogram



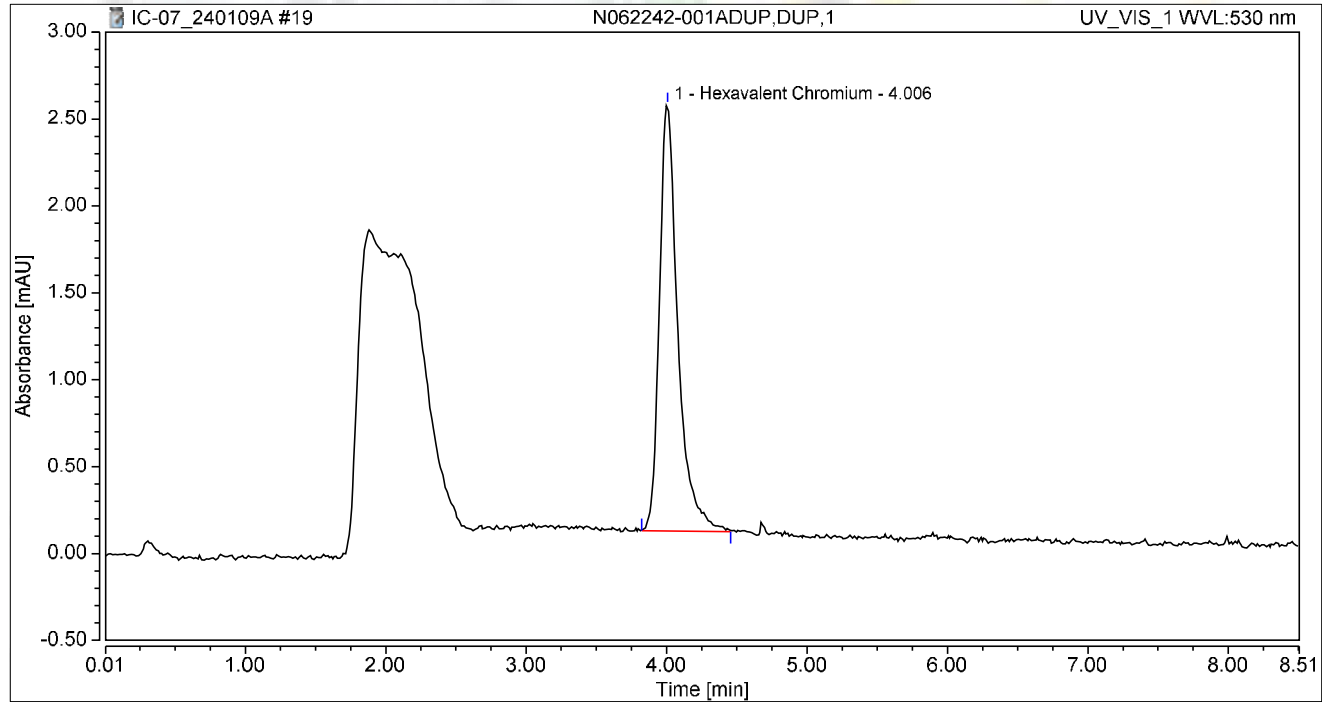
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.379	2.476	100.00	100.00	1.8228
Total:			0.379	2.476	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062242-001ADUP,DUP,1	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Jan/24 12:18	Sample Weight: 1.0000

Chromatogram

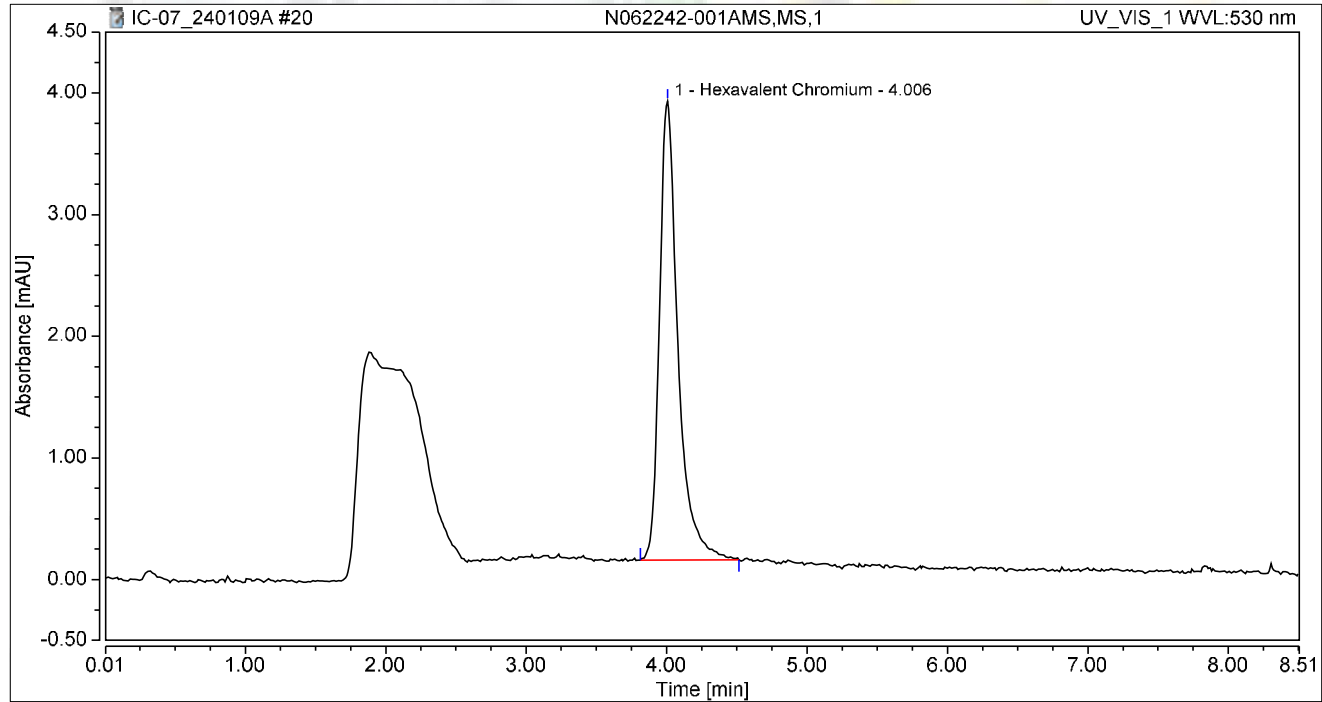


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.374	2.452	100.00	100.00	1.7967
Total:			0.374	2.452	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062242-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Jan/24 12:28	Sample Weight: 1.0000

Chromatogram



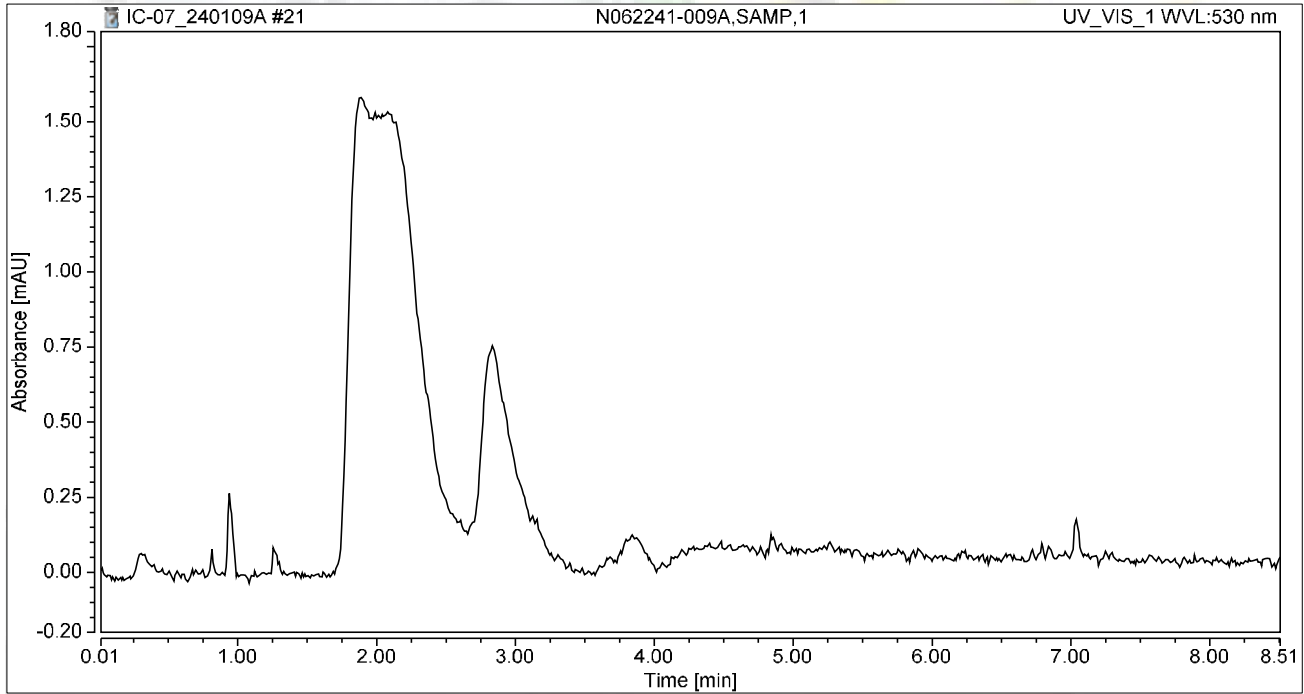
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.576	3.772	100.00	100.00	2.7661
Total:			0.576	3.772	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 12:47	Sample Weight:	1.0000

Chromatogram



Integration Results

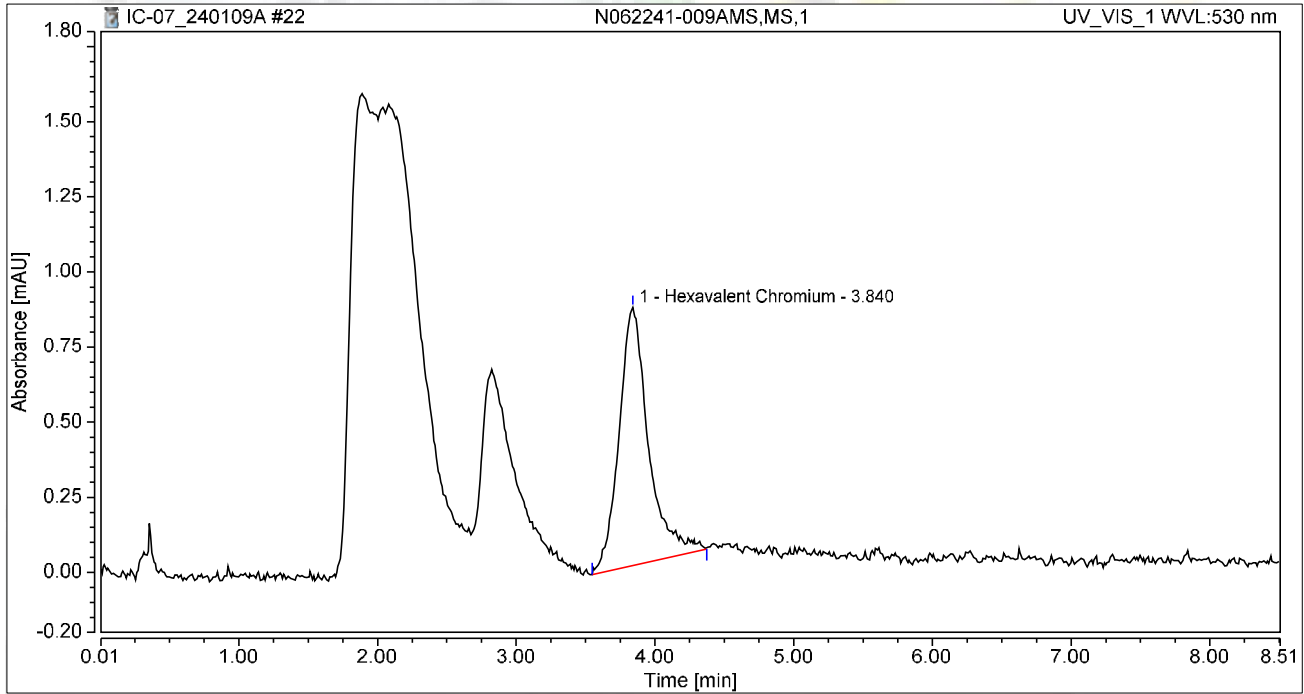
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 12:59	Sample Weight:	1.0000

Chromatogram



Integration Results

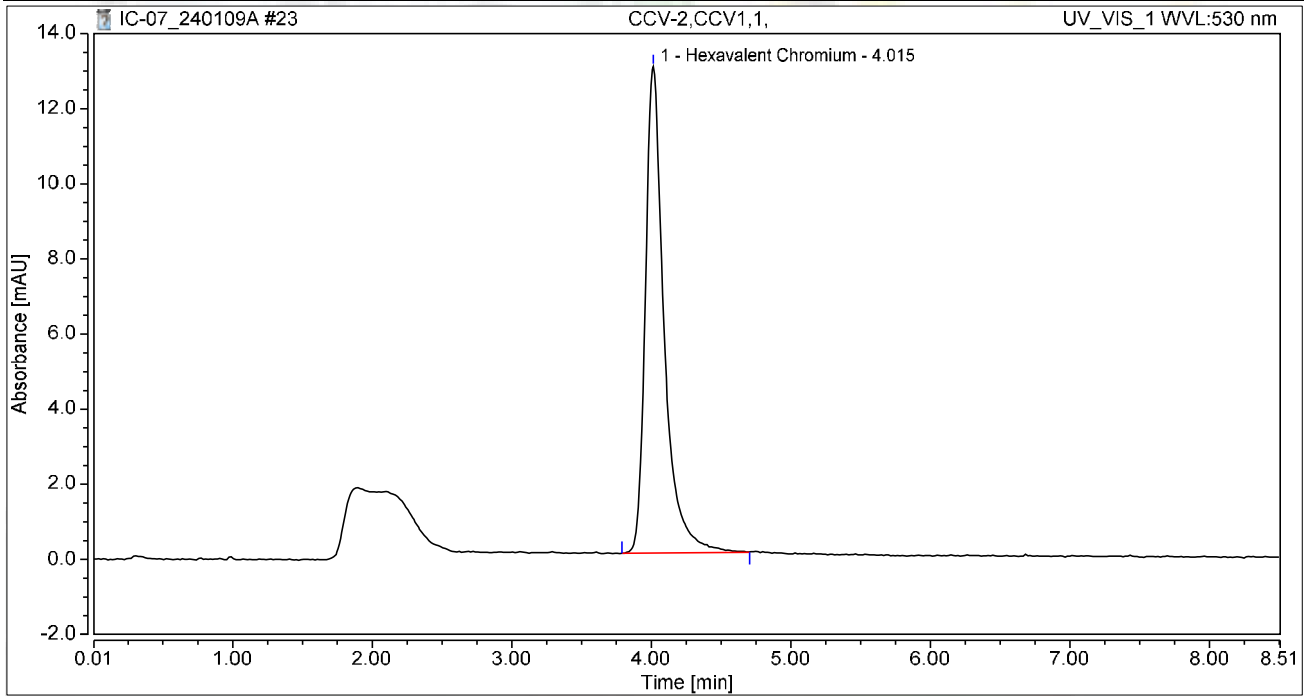
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.211	0.859	100.00	100.00	1.0152
Total:			0.211	0.859	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:09	Sample Weight:	1.0000

Chromatogram



Integration Results

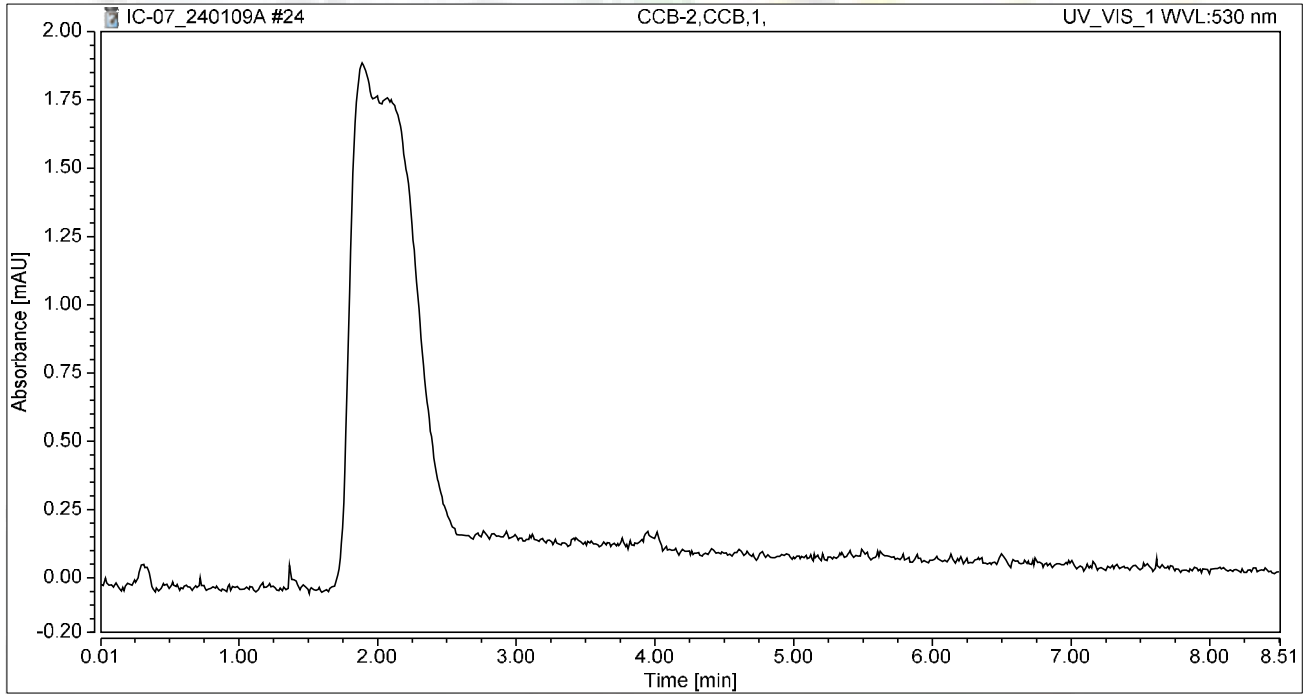
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.021	12.956	100.00	100.00	9.7114
Total:			2.021	12.956	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:18	Sample Weight:	1.0000

Chromatogram



Integration Results

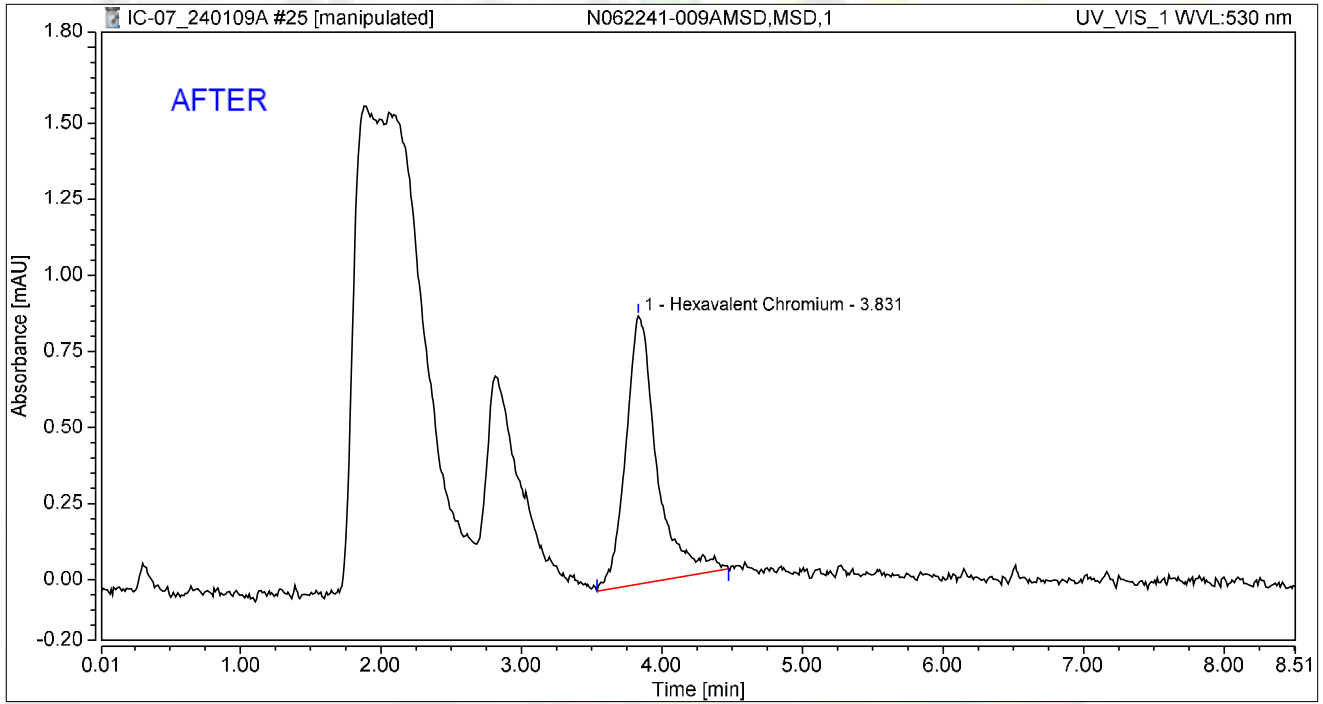
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details


Injection Name:	N062241-009AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.227	0.883	100.00	100.00	1.0887
Total:			0.227	0.883	100.00	100.00	

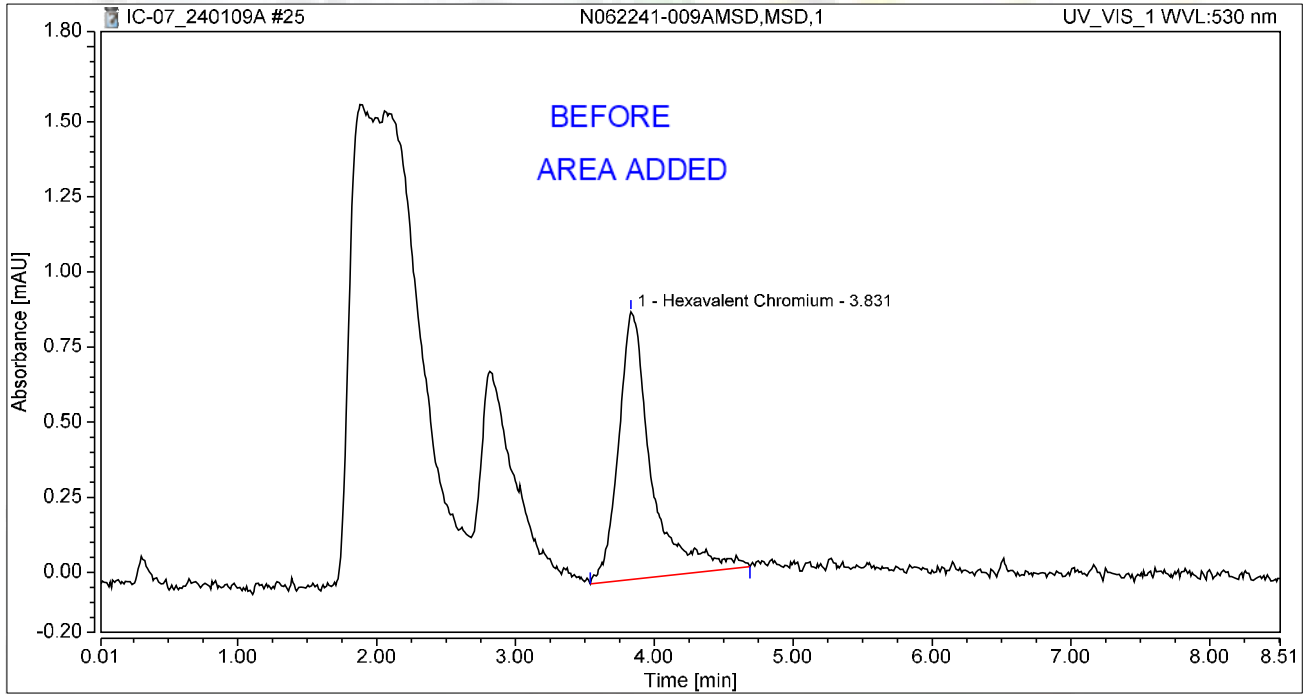
Reviewed by

 01/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:28	Sample Weight:	1.0000

Chromatogram



Integration Results

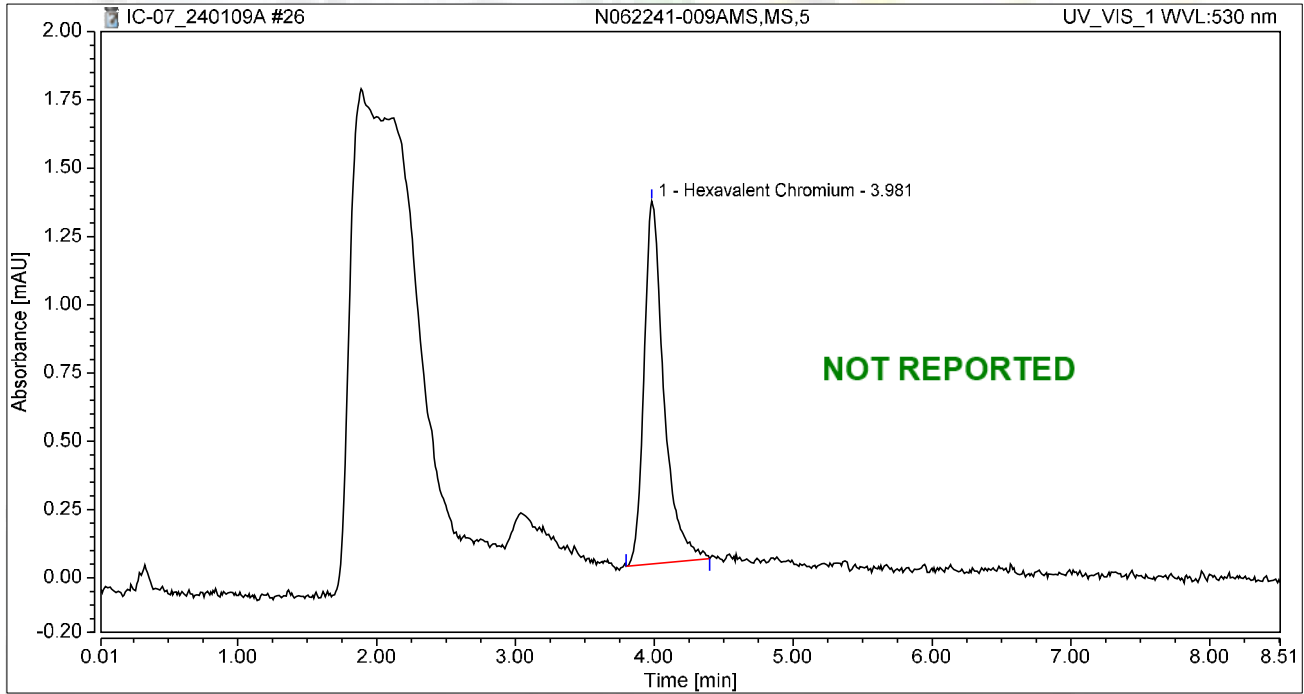
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.245	0.891	100.00	100.00	1.1762
Total:			0.245	0.891	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMS,MS,5	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:37	Sample Weight:	1.0000

Chromatogram



Integration Results

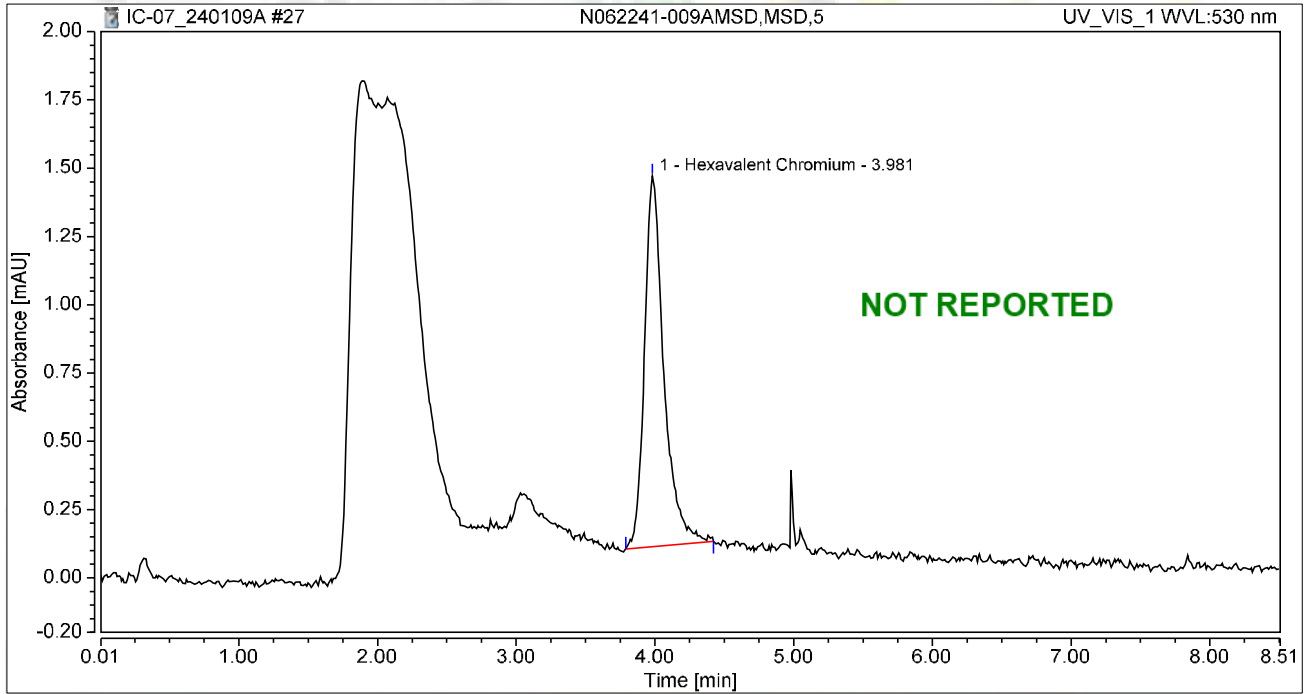
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.221	1.328	100.00	100.00	1.0608
Total:			0.221	1.328	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-009AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:47	Sample Weight:	1.0000

Chromatogram



Integration Results

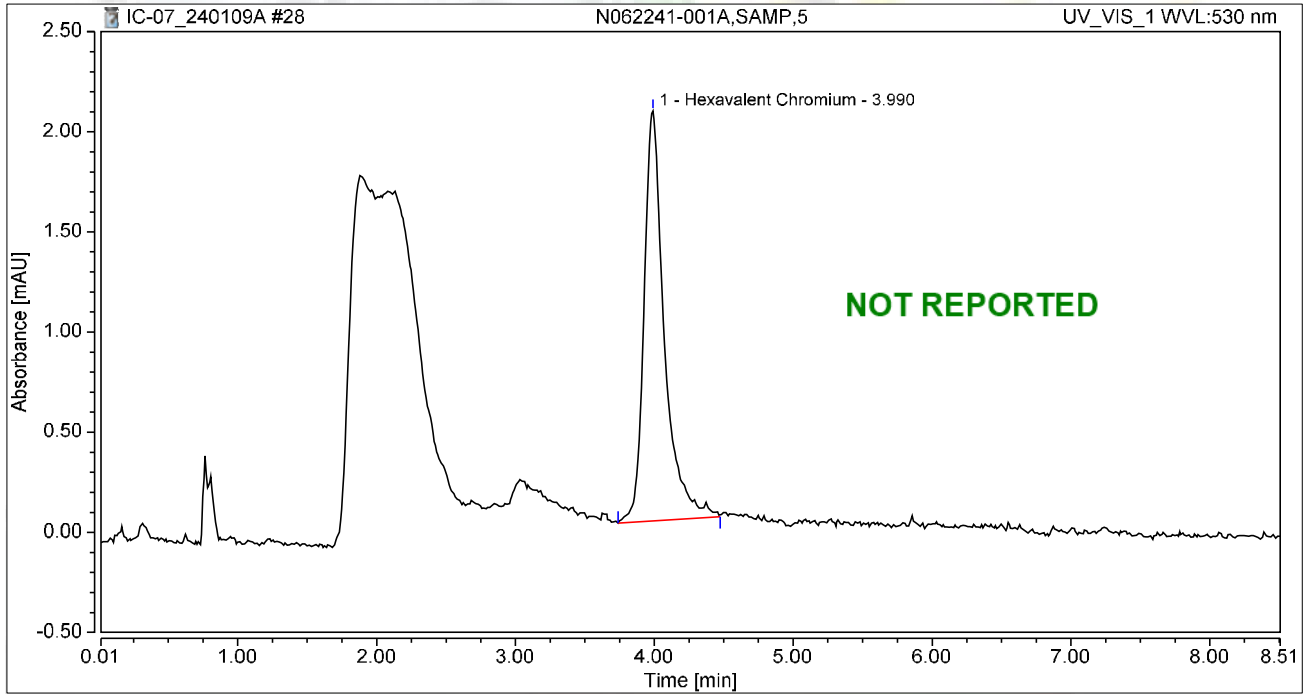
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.220	1.358	100.00	100.00	1.0555
Total:			0.220	1.358	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 13:56	Sample Weight:	1.0000

Chromatogram



Integration Results

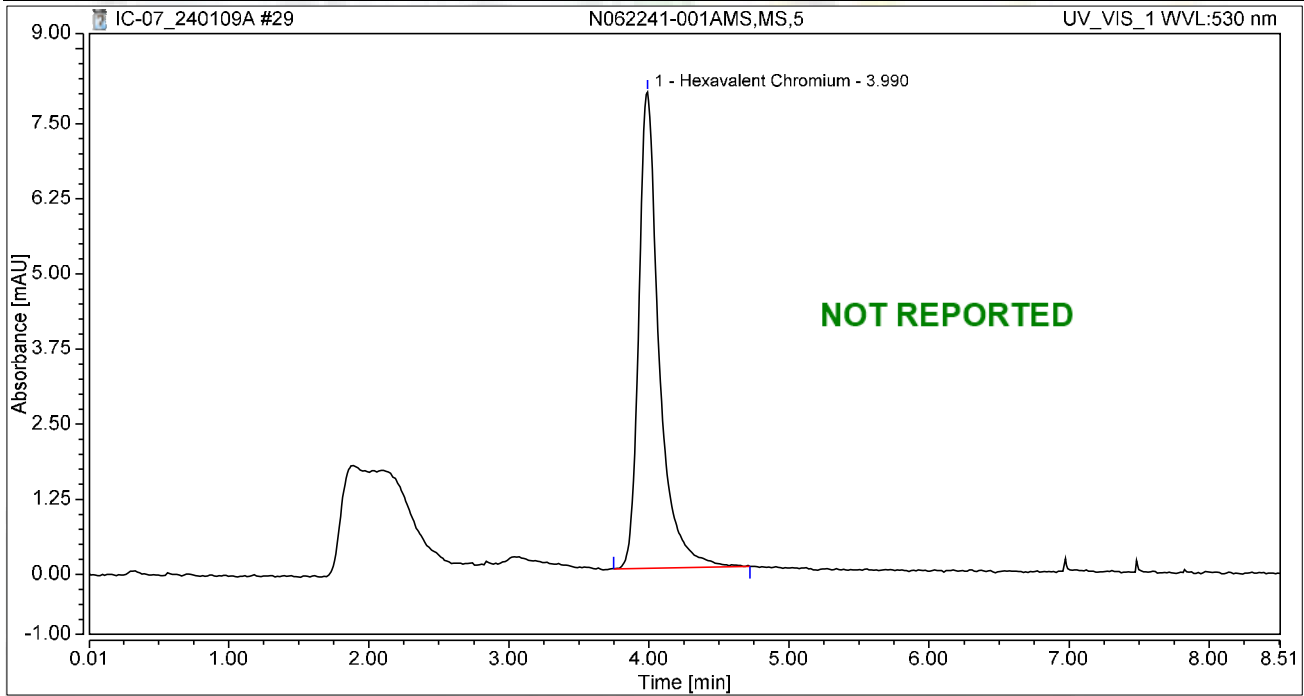
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.348	2.046	100.00	100.00	1.6719
Total:			0.348	2.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:06	Sample Weight:	1.0000

Chromatogram



Integration Results

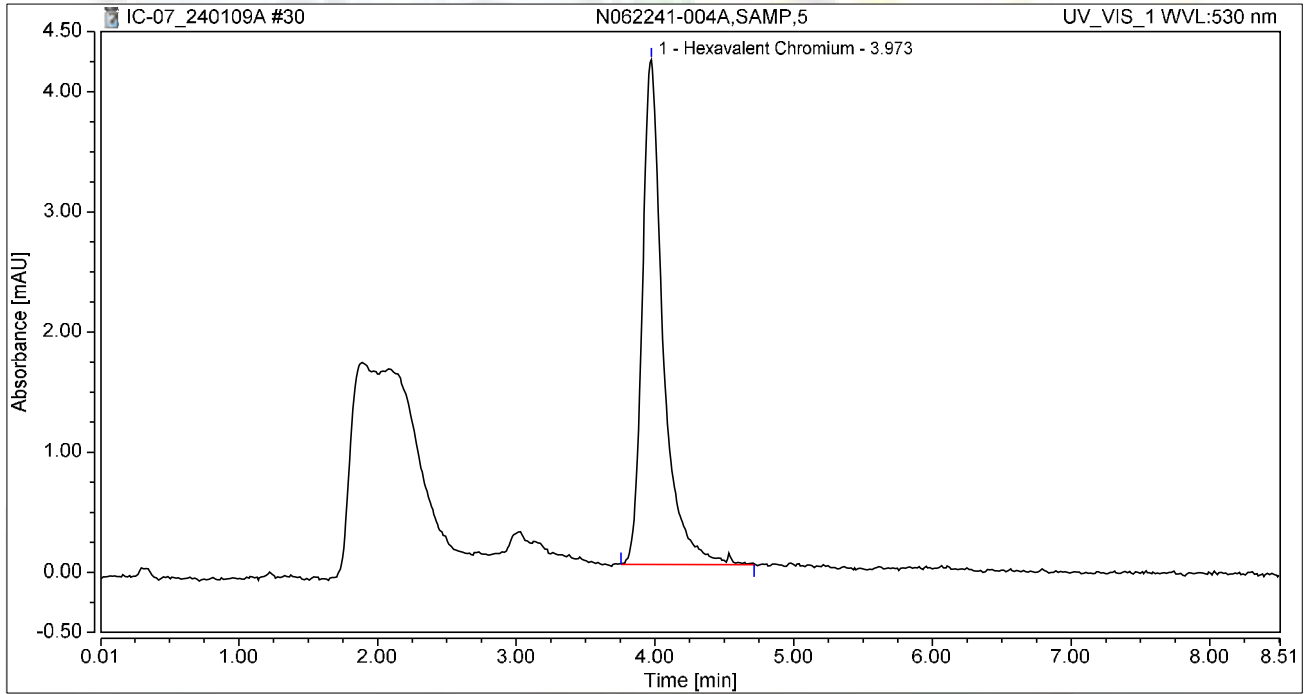
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.336	7.929	100.00	100.00	6.4216
Total:			1.336	7.929	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-004A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:15	Sample Weight:	1.0000

Chromatogram



Integration Results

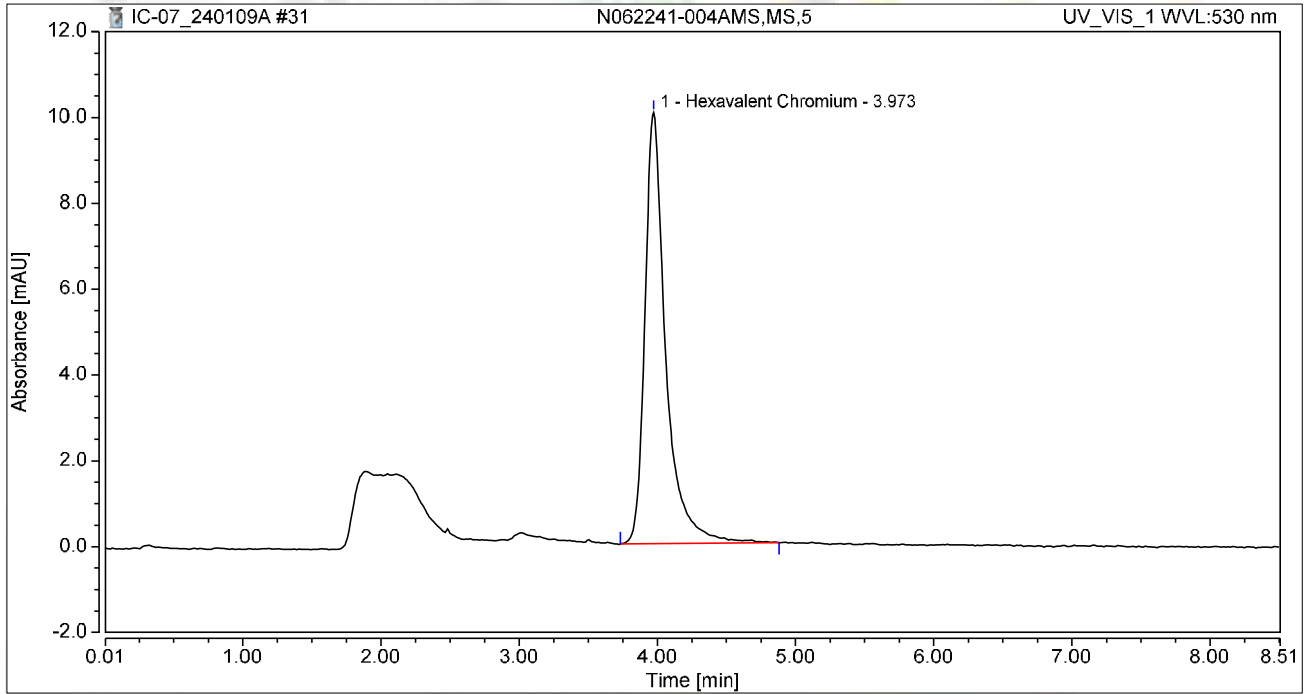
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.733	4.202	100.00	100.00	3.5230
Total:			0.733	4.202	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:25	Sample Weight:	1.0000

Chromatogram



Integration Results

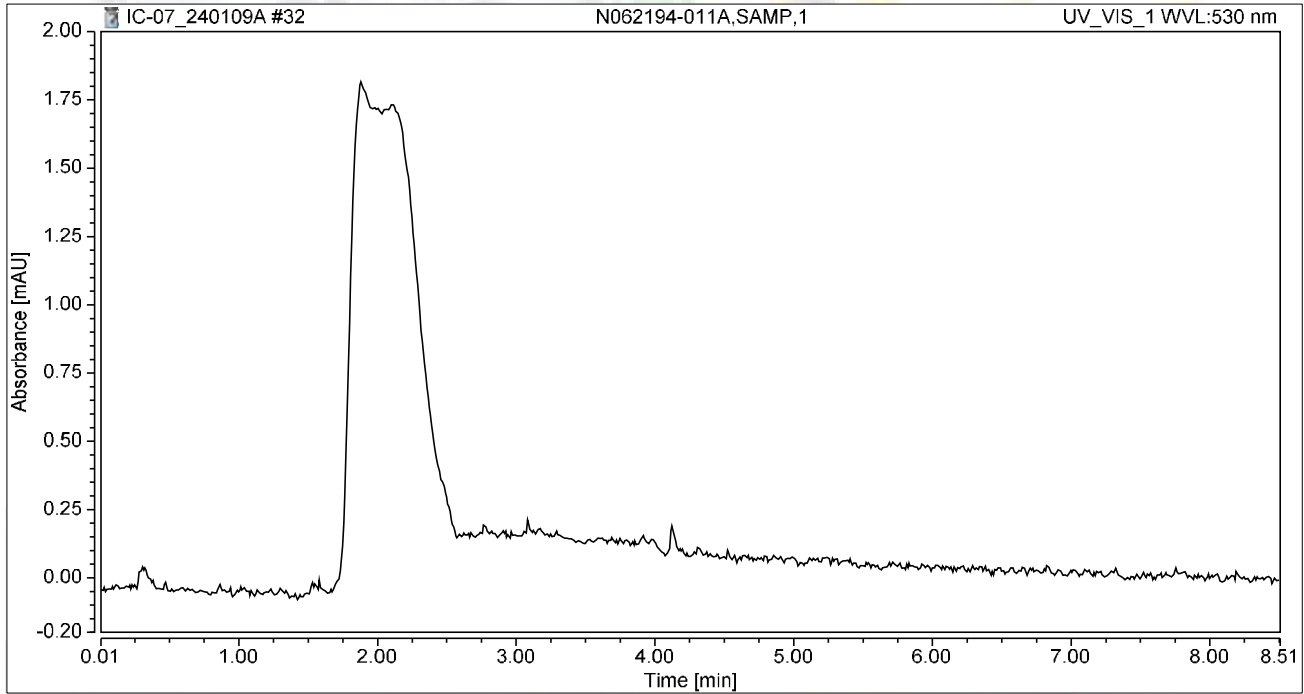
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.751	10.040	100.00	100.00	8.4159
Total:			1.751	10.040	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:34	Sample Weight:	1.0000

Chromatogram



Integration Results

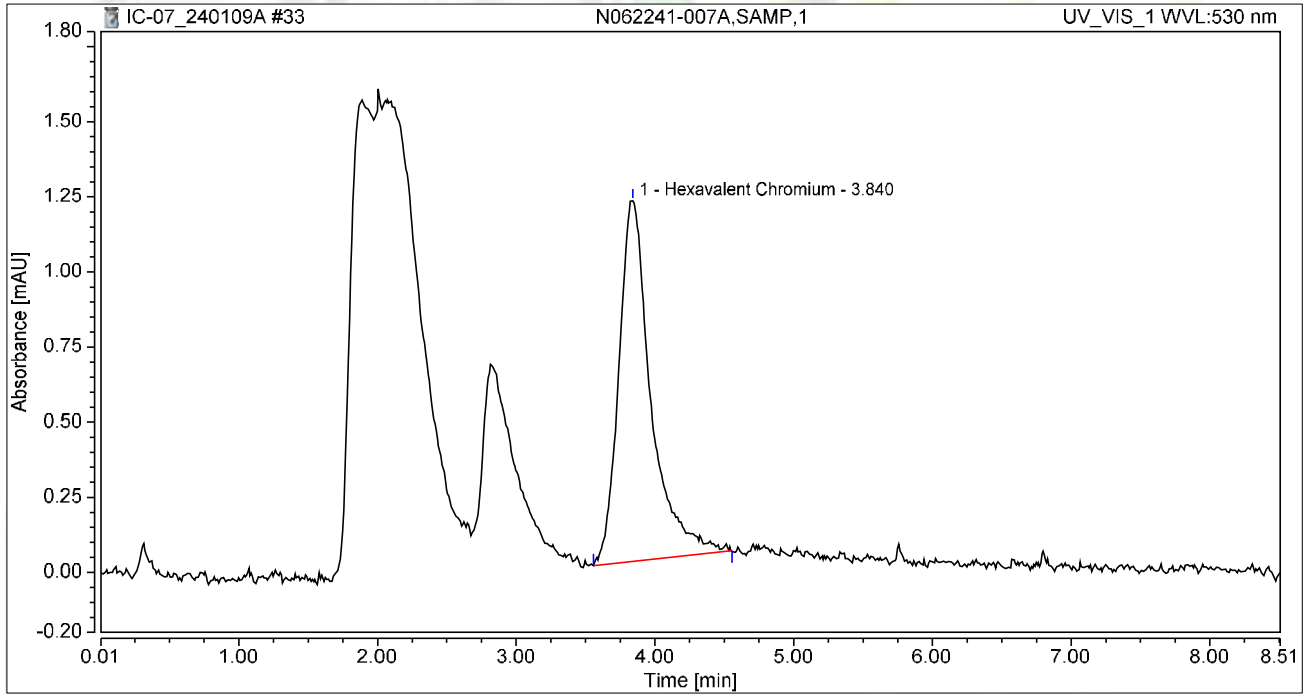
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:44	Sample Weight:	1.0000

Chromatogram



Integration Results

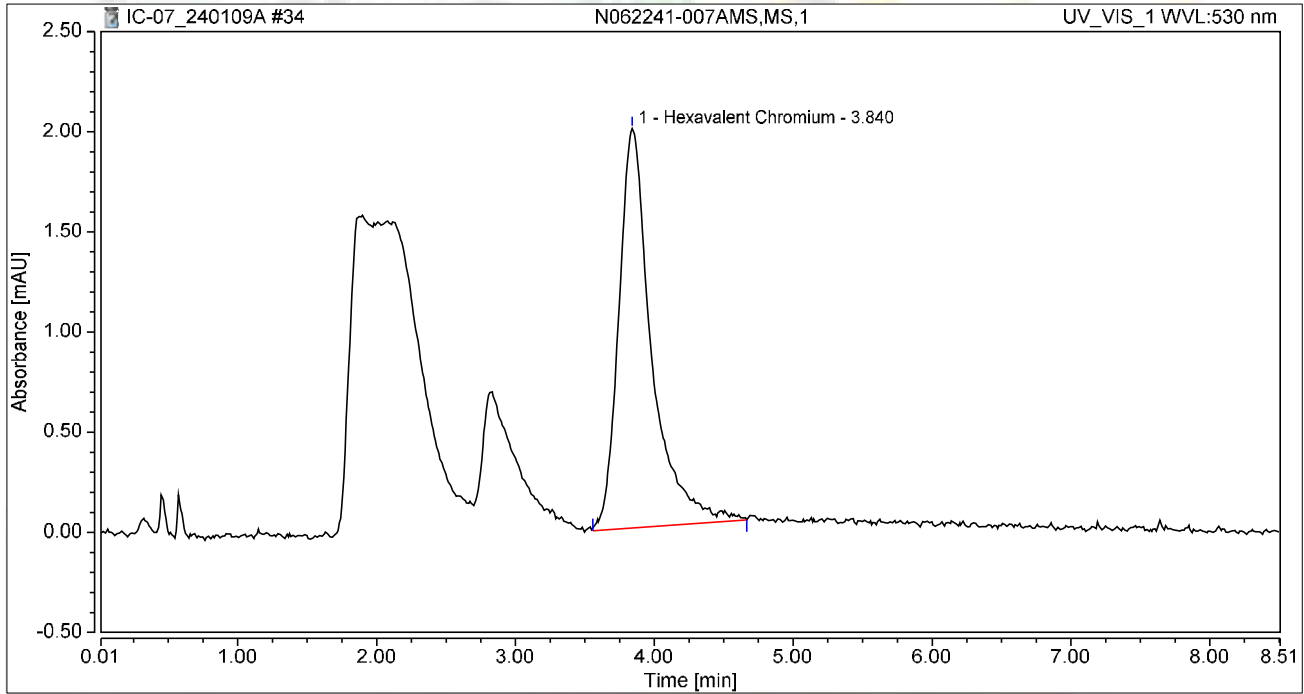
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.323	1.200	100.00	100.00	1.5527
Total:			0.323	1.200	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-007AMS,MS,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 14:53	Sample Weight:	1.0000

Chromatogram



Integration Results

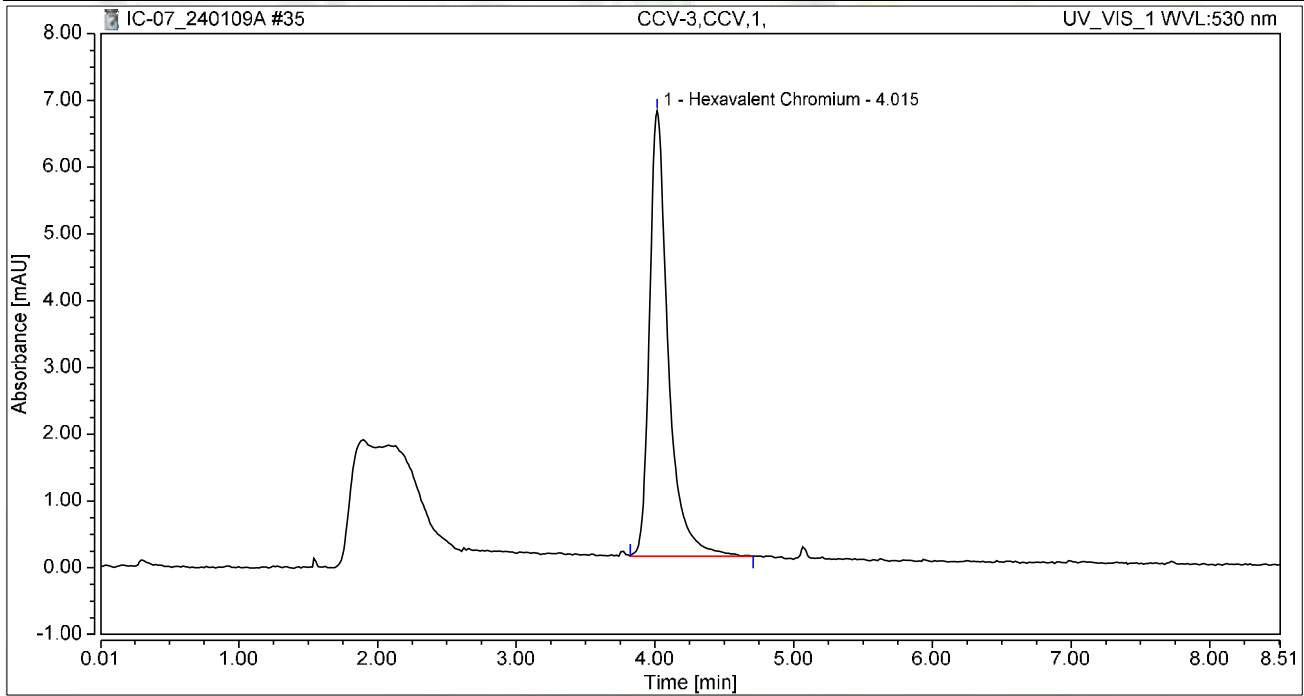
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.547	1.995	100.00	100.00	2.6305
Total:			0.547	1.995	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:02	Sample Weight:	1.0000

Chromatogram



Integration Results

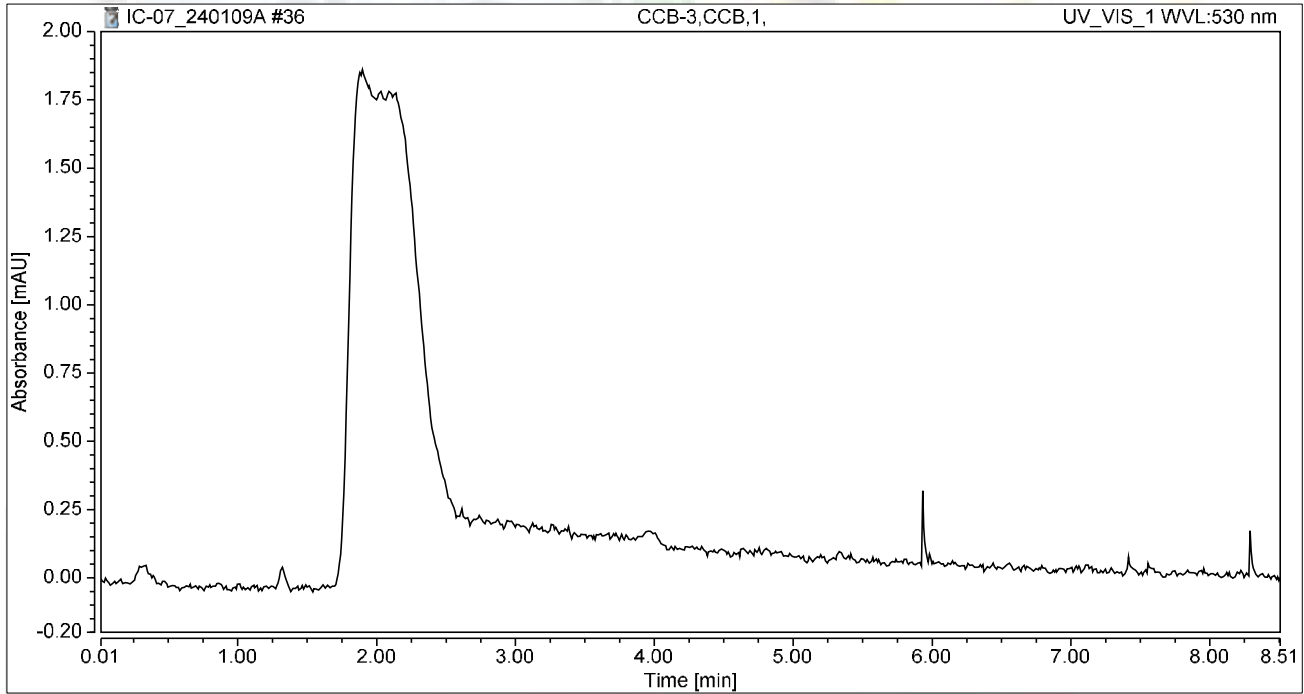
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.044	6.670	100.00	100.00	5.0180
Total:			1.044	6.670	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:12	Sample Weight:	1.0000

Chromatogram



Integration Results

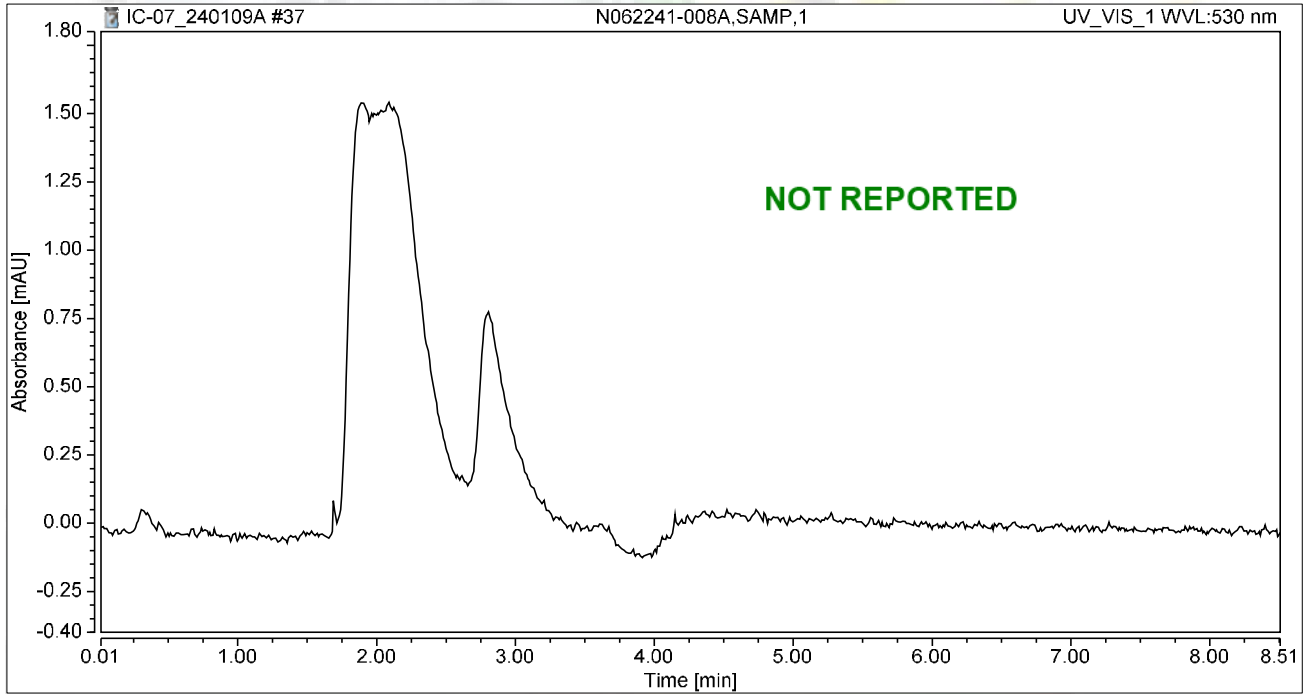
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-008A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:21	Sample Weight:	1.0000

Chromatogram



Integration Results

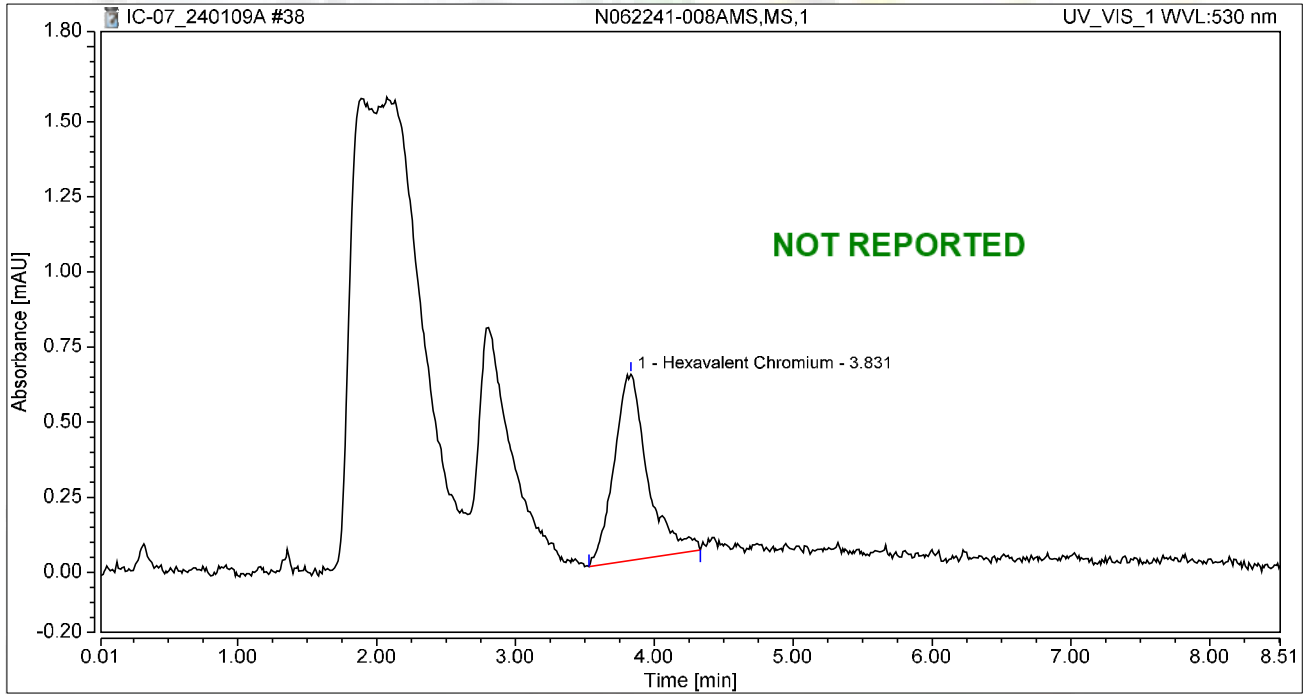
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:31	Sample Weight:	1.0000

Chromatogram



Integration Results

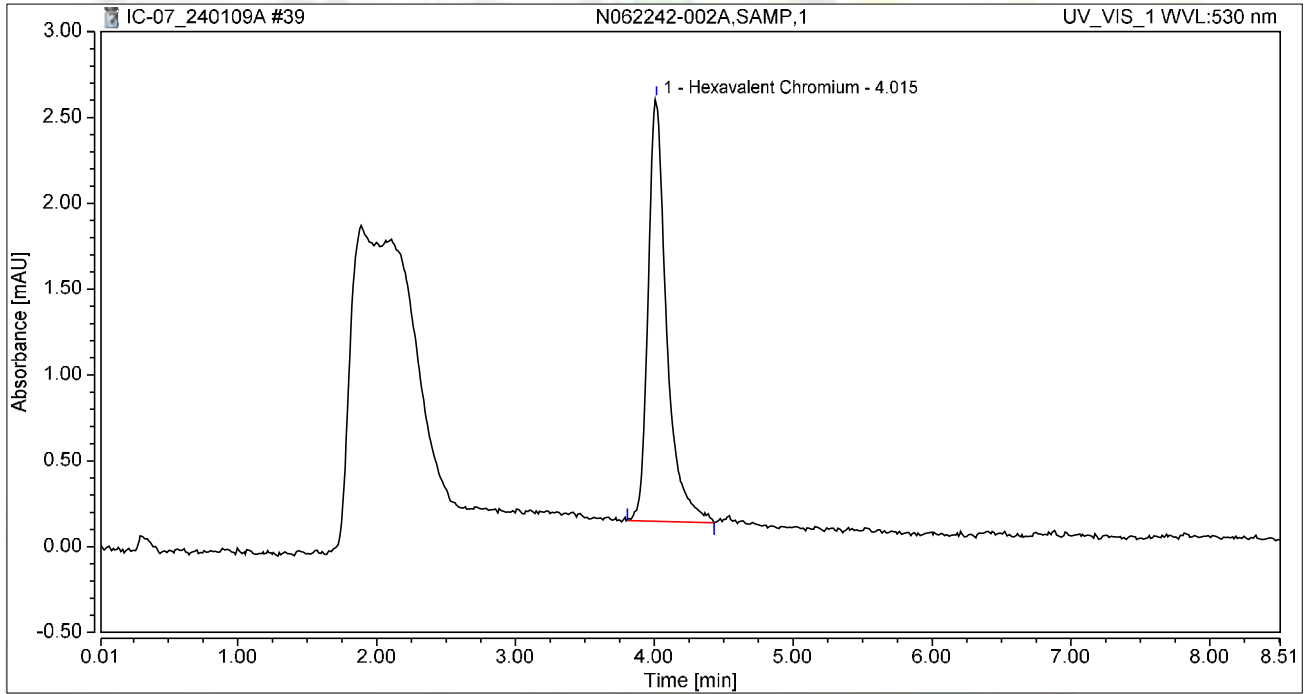
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.174	0.620	100.00	100.00	0.8345
Total:			0.174	0.620	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:43	Sample Weight:	1.0000

Chromatogram



Integration Results

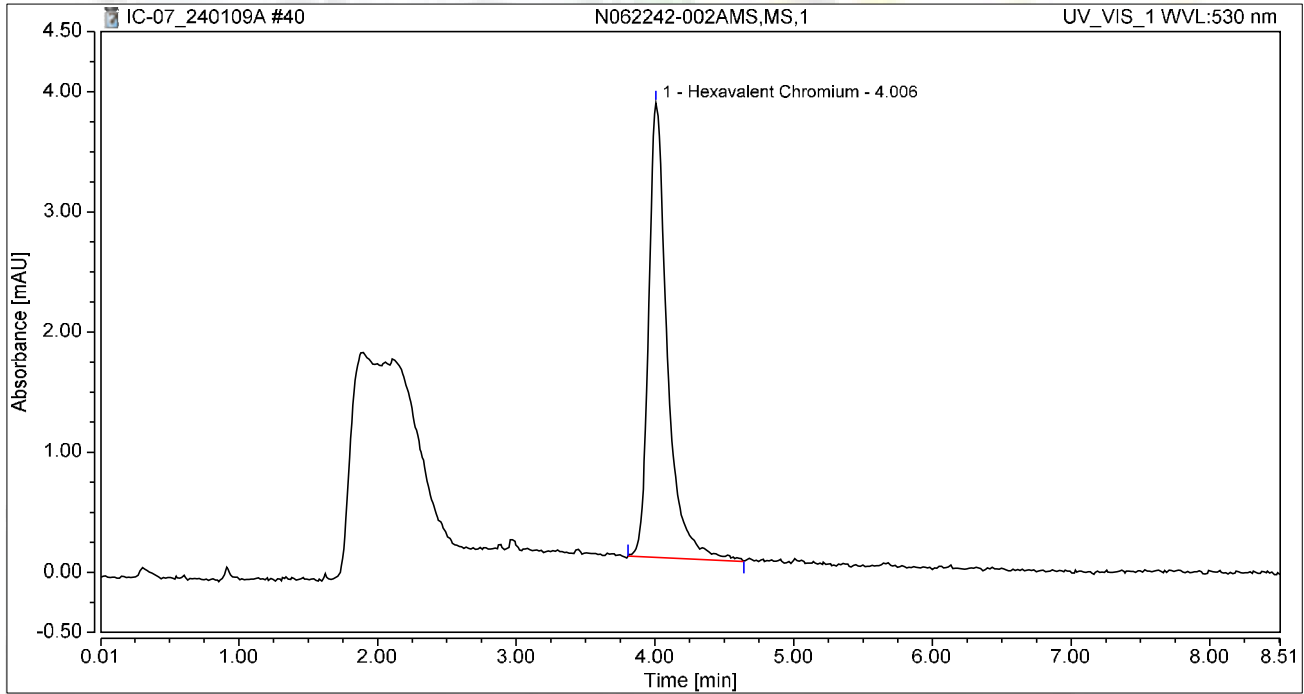
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.381	2.463	100.00	100.00	1.8318
Total:			0.381	2.463	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 15:52	Sample Weight:	1.0000

Chromatogram



Integration Results

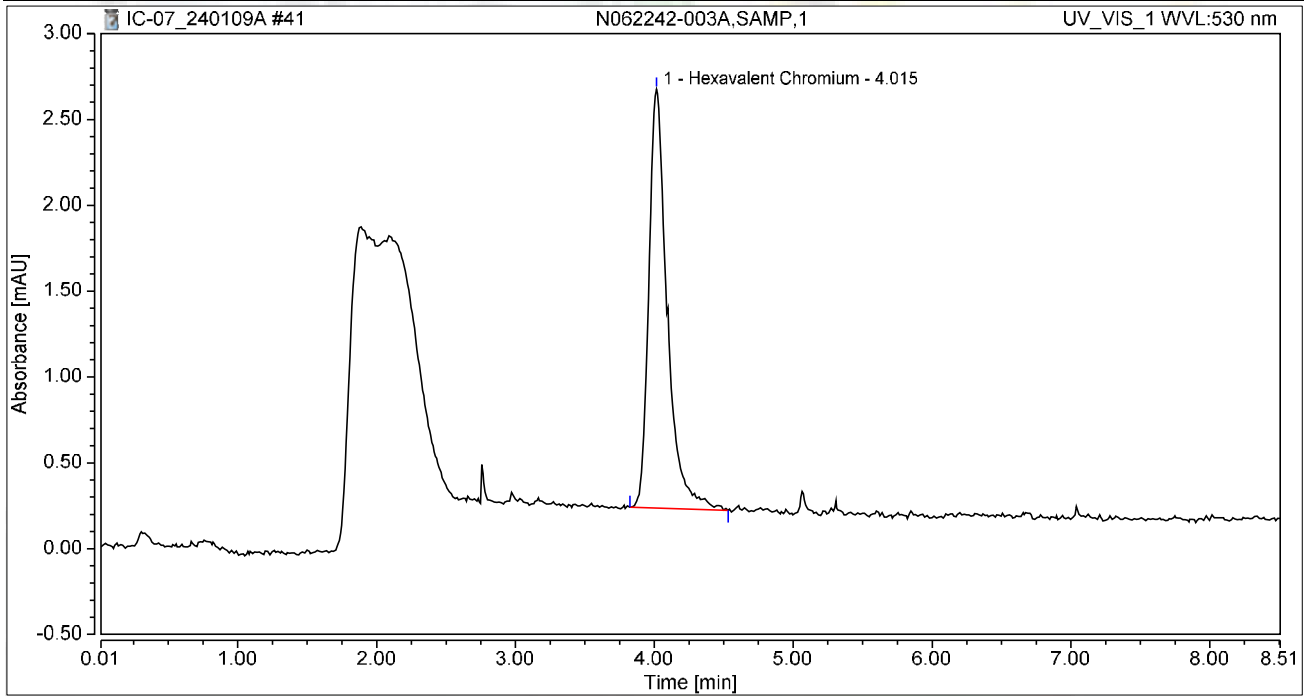
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.593	3.782	100.00	100.00	2.8485
Total:			0.593	3.782	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:03	Sample Weight:	1.0000

Chromatogram



Integration Results

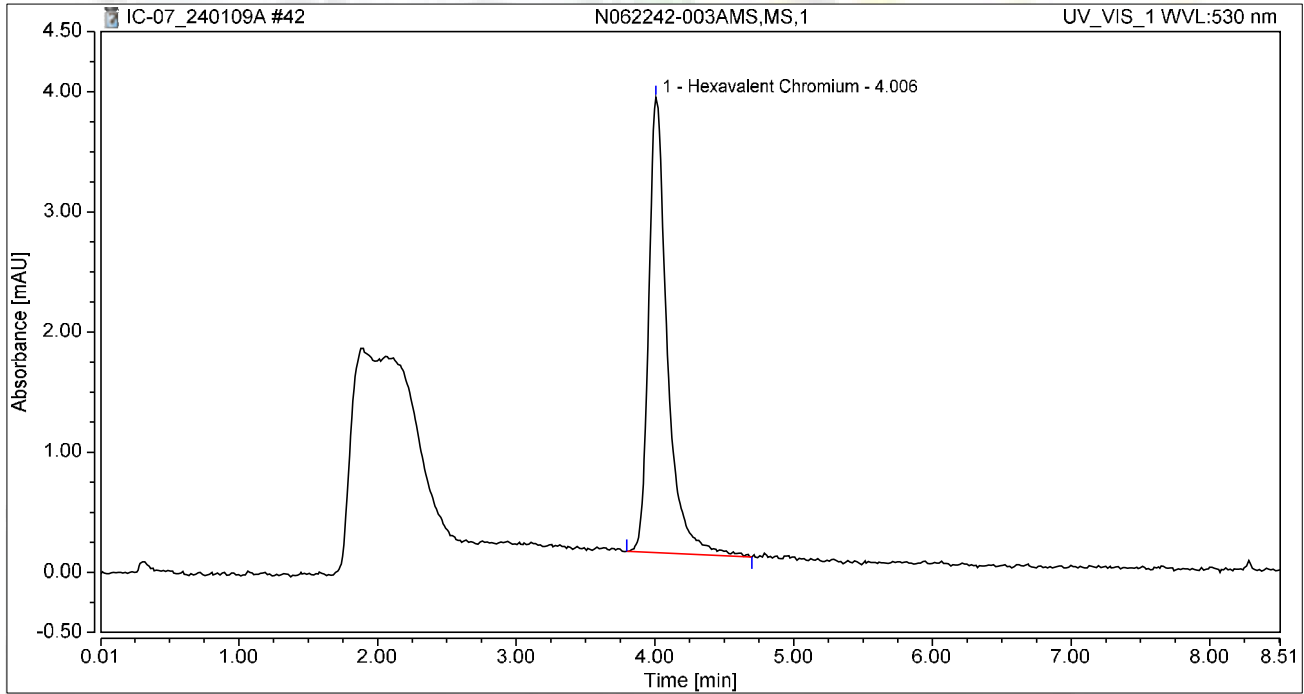
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.376	2.440	100.00	100.00	1.8063
Total:			0.376	2.440	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

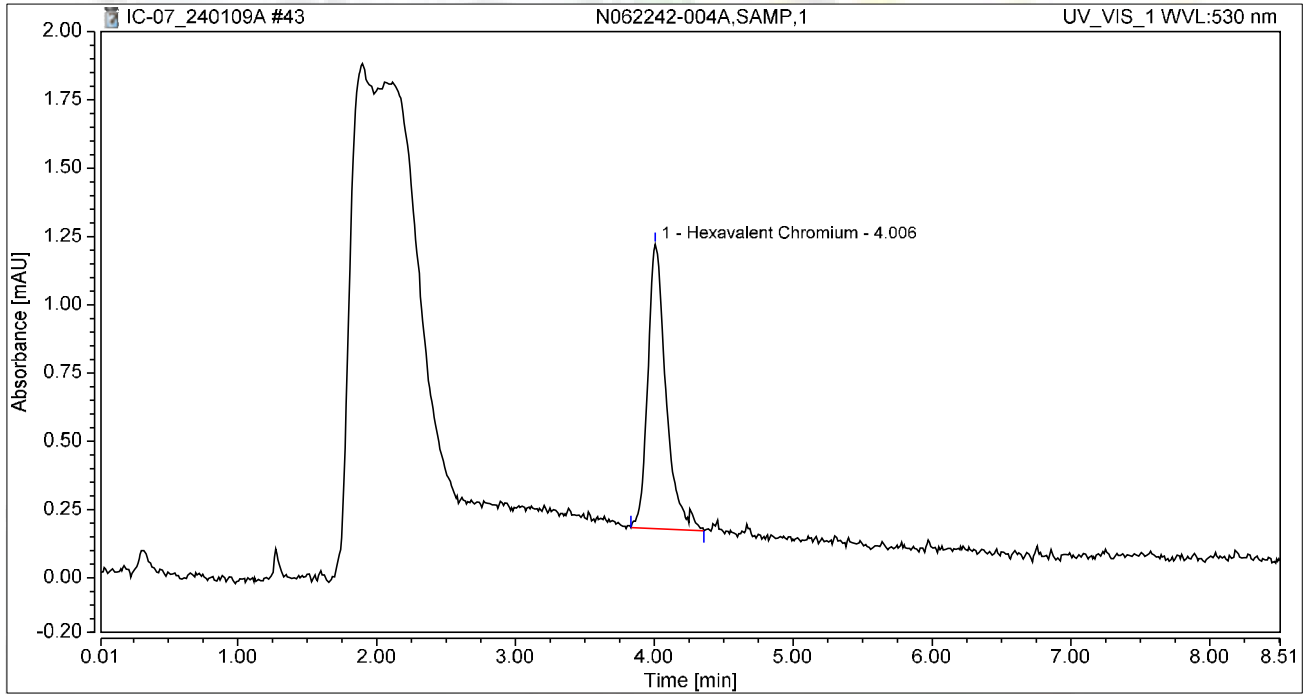
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.589	3.788	100.00	100.00	2.8318
Total:			0.589	3.788	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

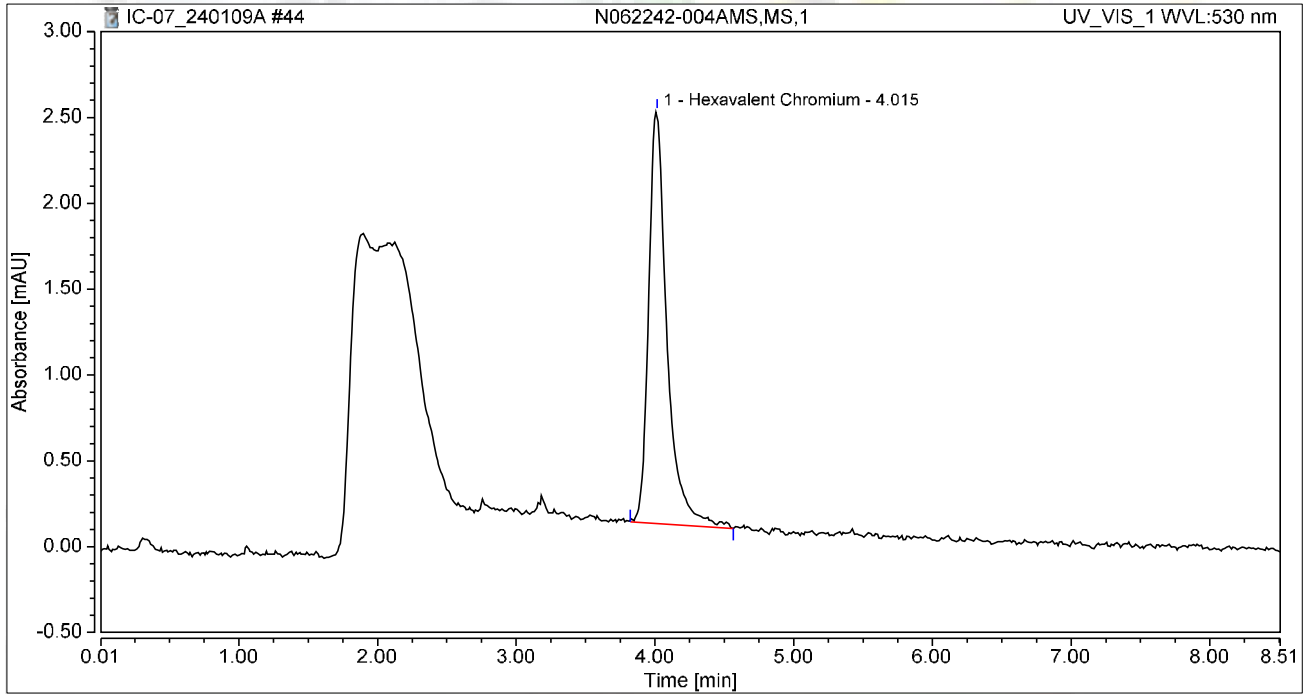
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.159	1.041	100.00	100.00	0.7621
Total:			0.159	1.041	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

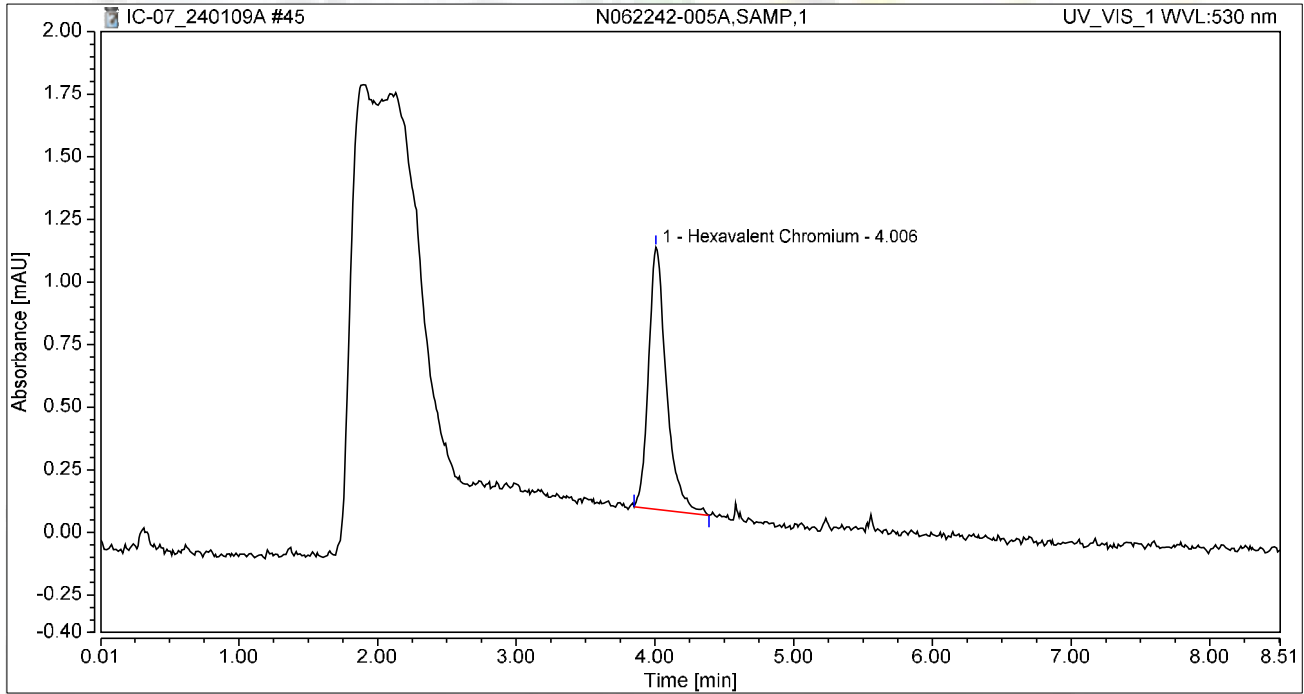
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.368	2.402	100.00	100.00	1.7667
Total:			0.368	2.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

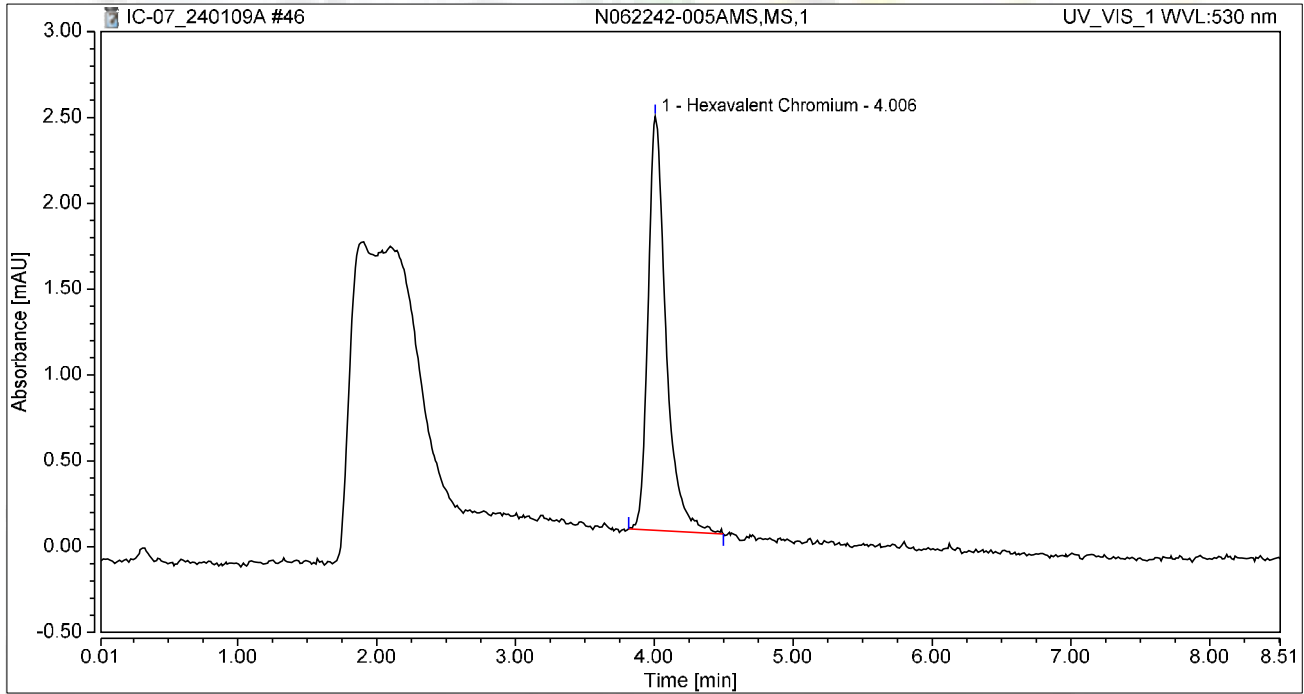
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.156	1.046	100.00	100.00	0.7507
Total:			0.156	1.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

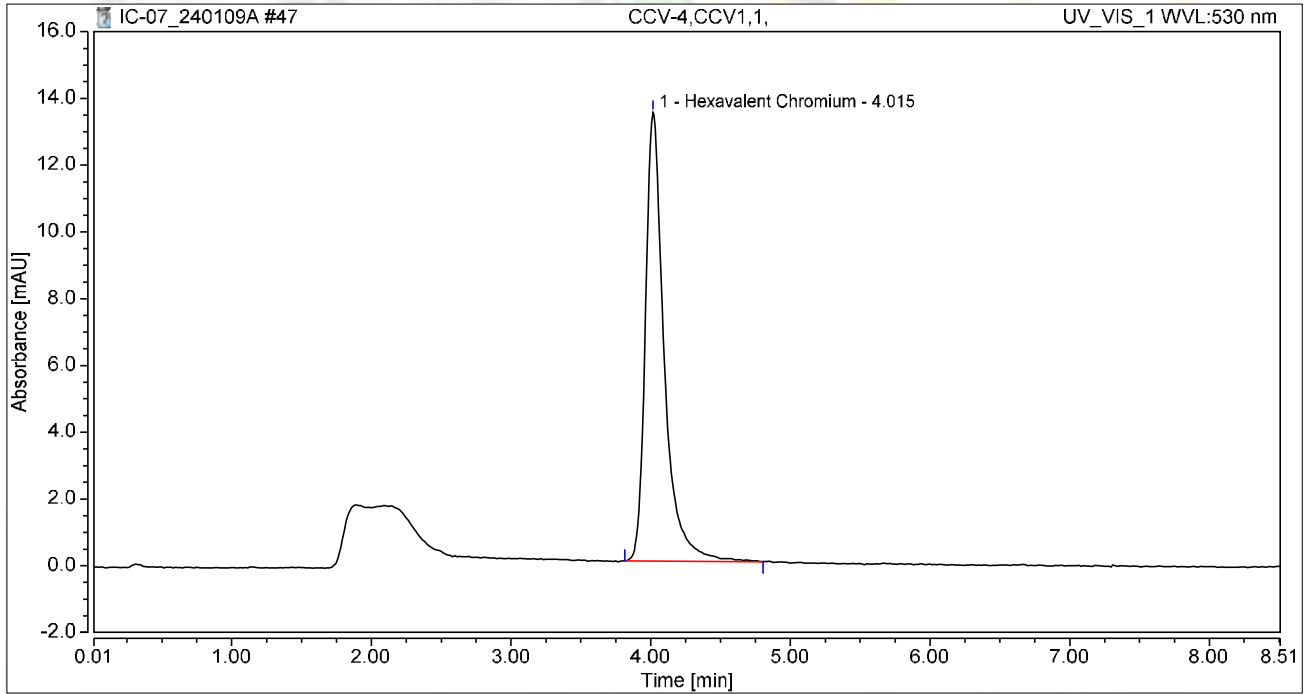
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.362	2.410	100.00	100.00	1.7392
Total:			0.362	2.410	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

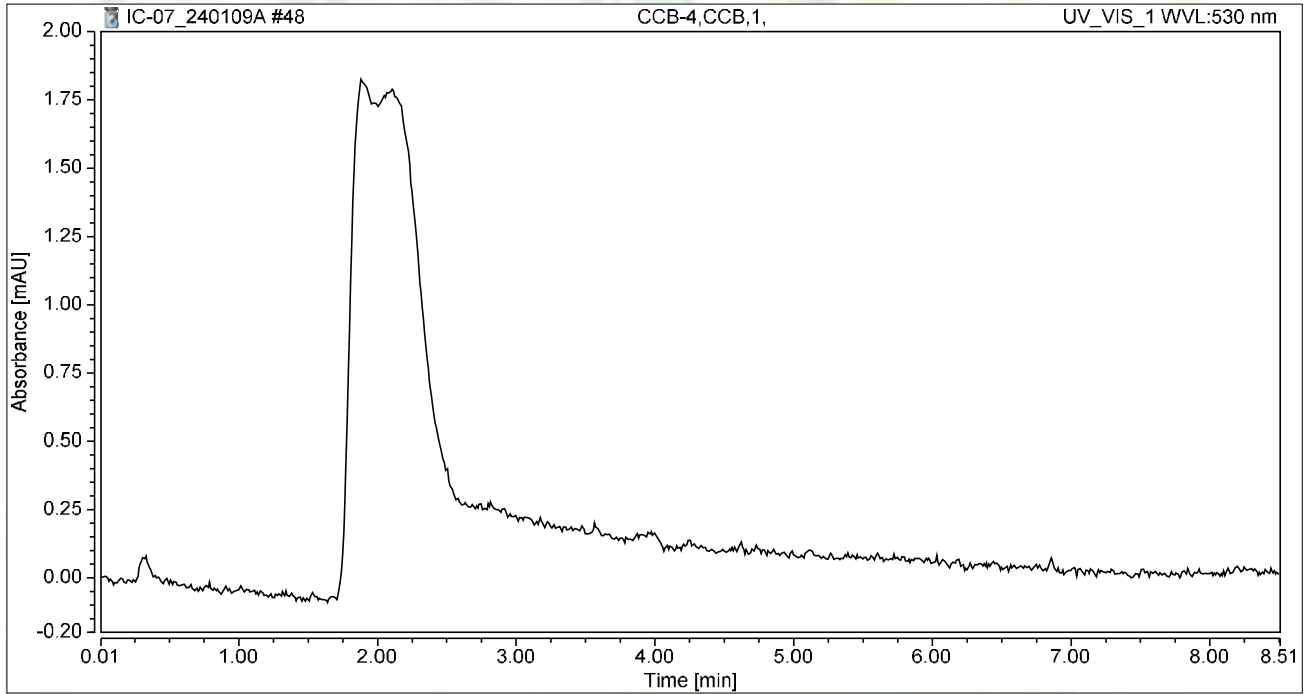
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.097	13.445	100.00	100.00	10.0789
Total:			2.097	13.445	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

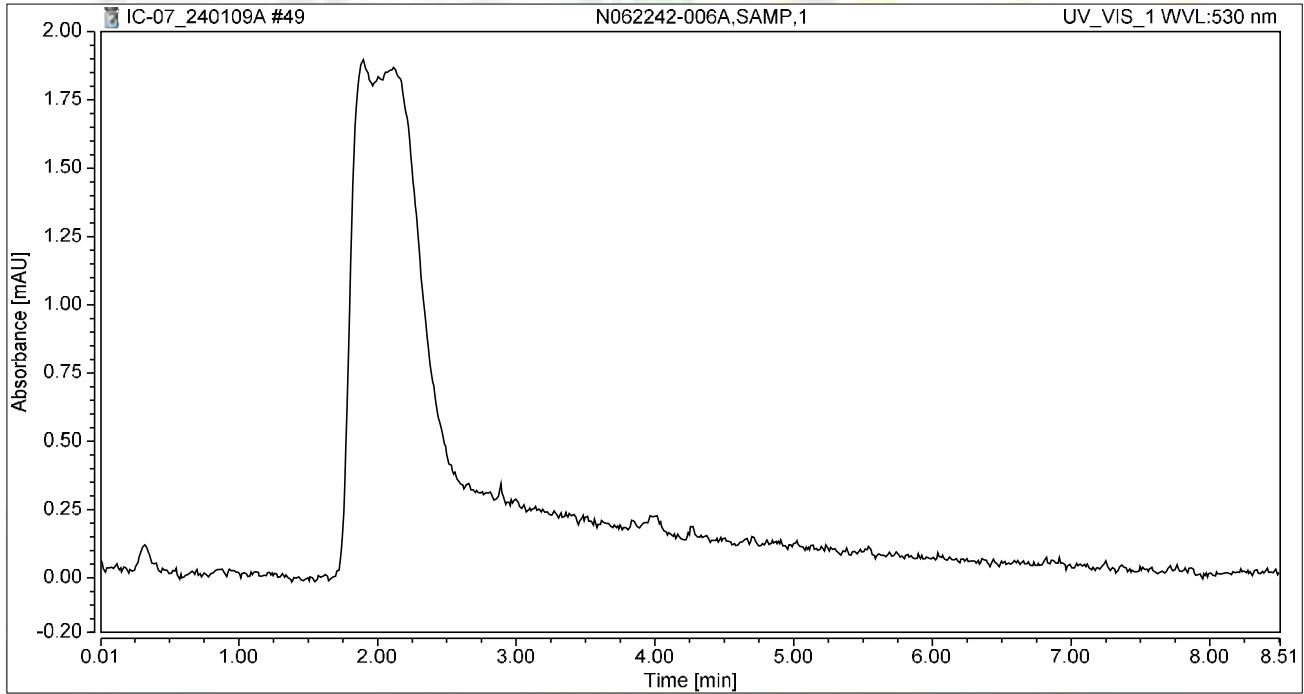
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

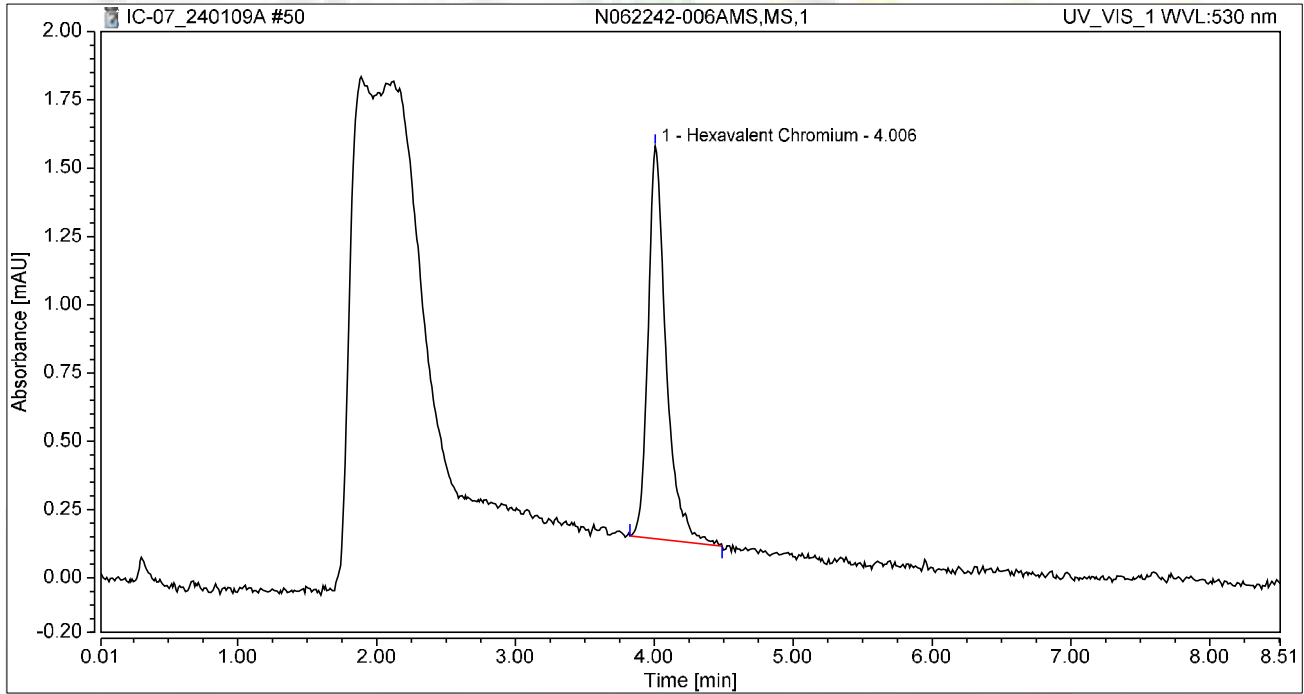
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

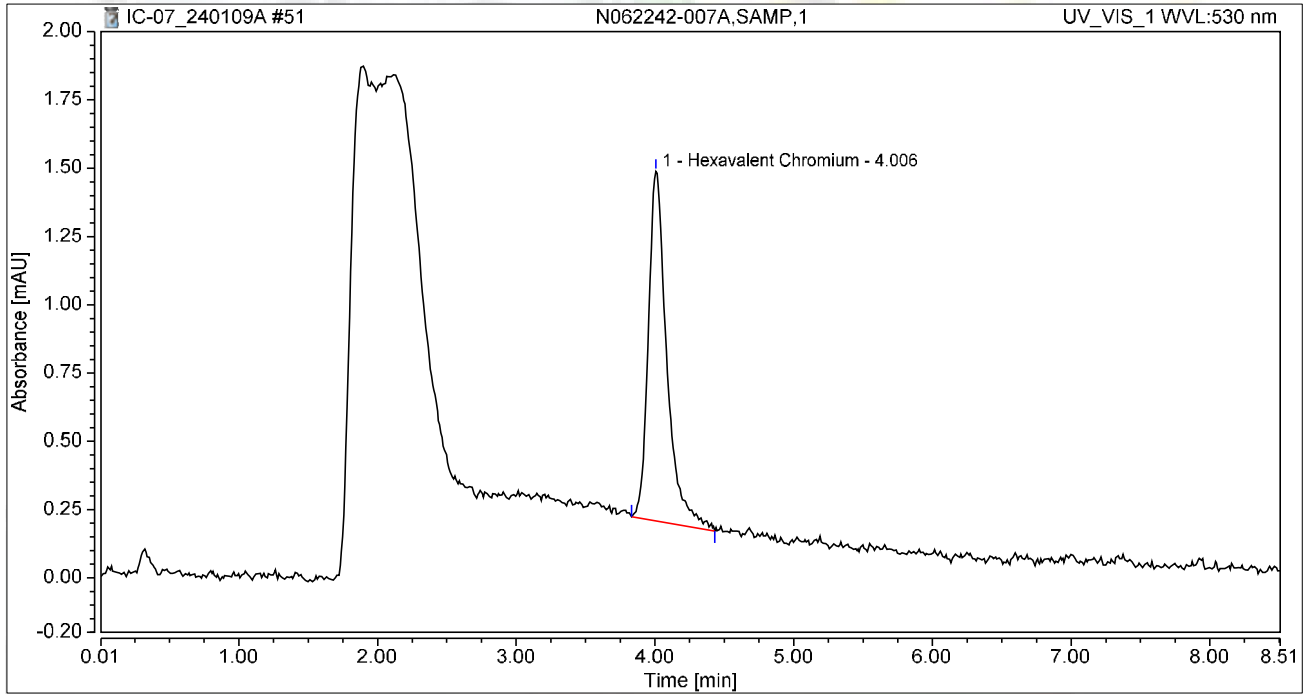
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.217	1.438	100.00	100.00	1.0414
Total:			0.217	1.438	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

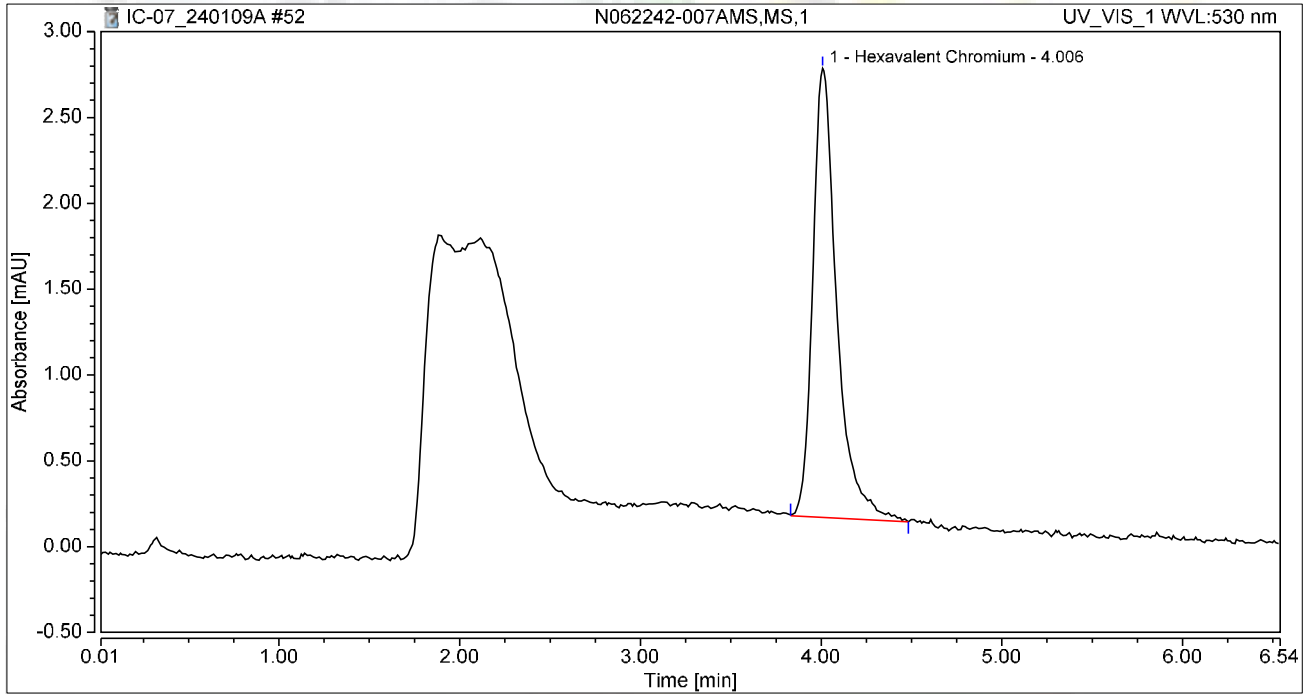
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.197	1.279	100.00	100.00	0.9472
Total:			0.197	1.279	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062242-007AMS,MS,1	Run Time (min):	6.53
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 17:50	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.401	2.615	100.00	100.00	1.9257
Total:			0.401	2.615	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-002A,SAMP,1	Run Time (min):	n.a.
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	n.a.
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 19:53	Sample Weight:	1.0000

Chromatogram

Can't read channel UV_VIS_1 from injection #53 - N062241-002A,SAMP,1.
Channel is not available.

NOT REPORTED

Integration Results

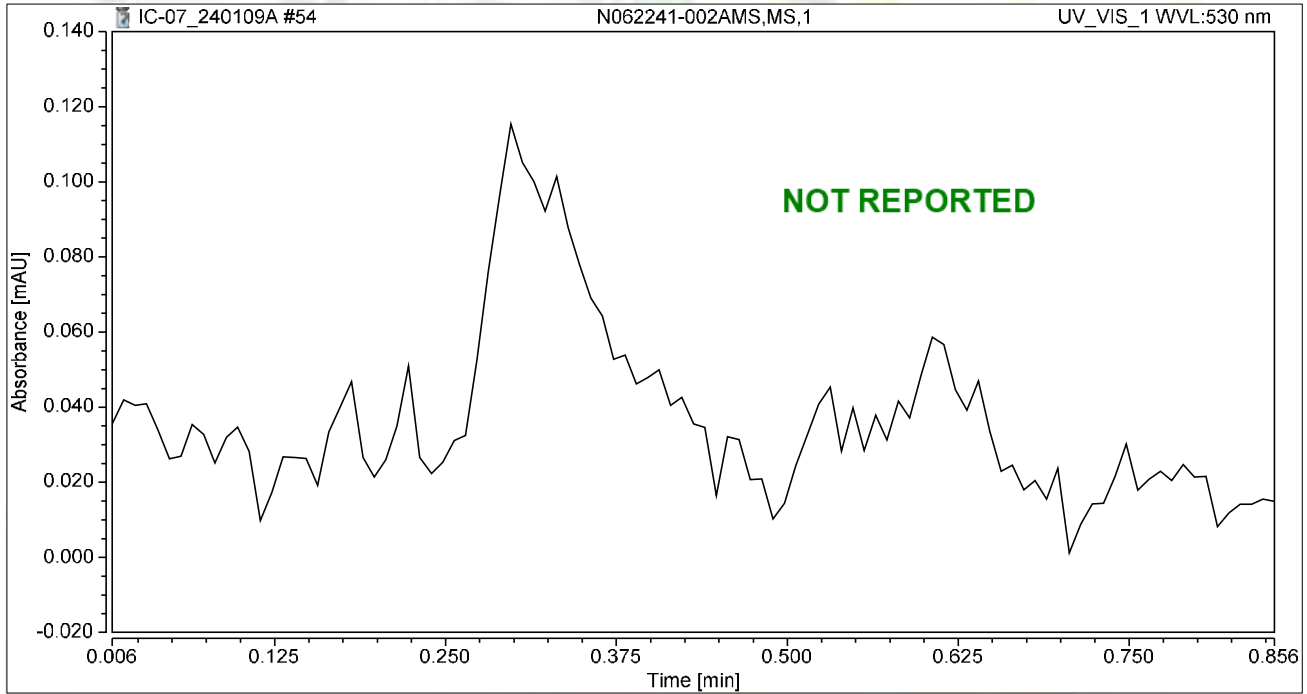
No.	Peak Name	Retention Time min	Area n.a.	Height n.a.	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-002AMS,MS,1	Run Time (min):	0.85
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

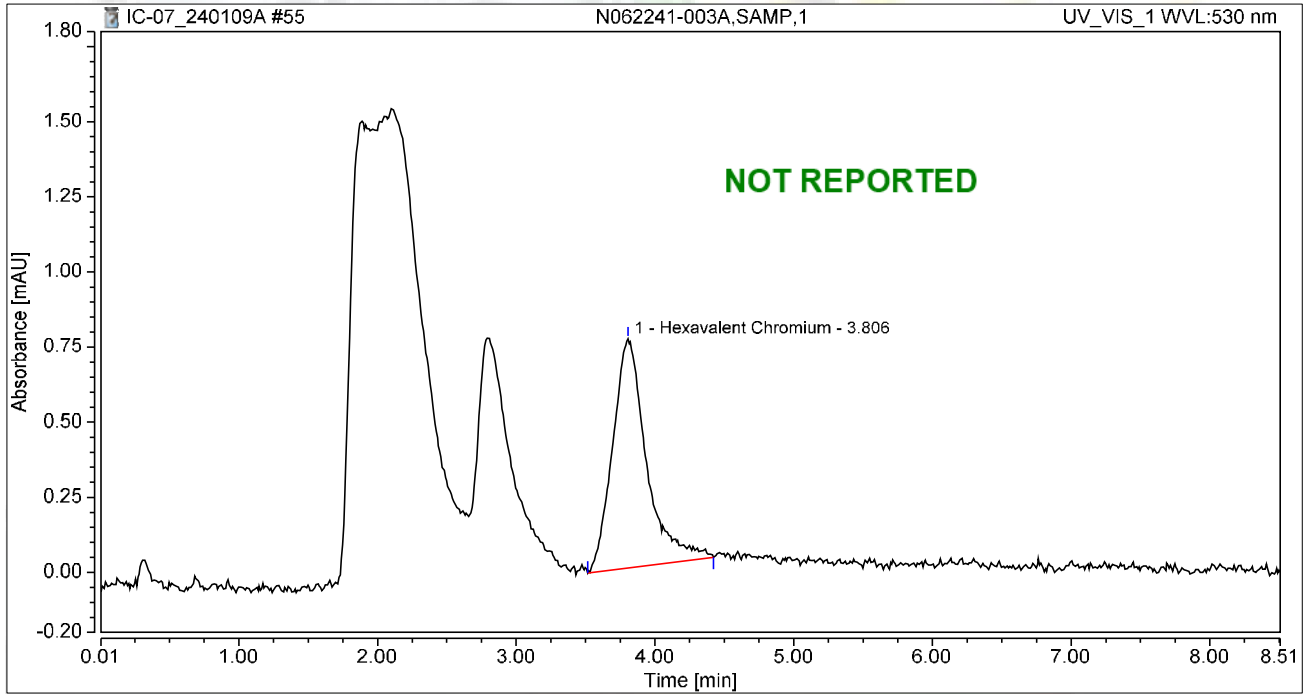
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:06	Sample Weight:	1.0000

Chromatogram



Integration Results

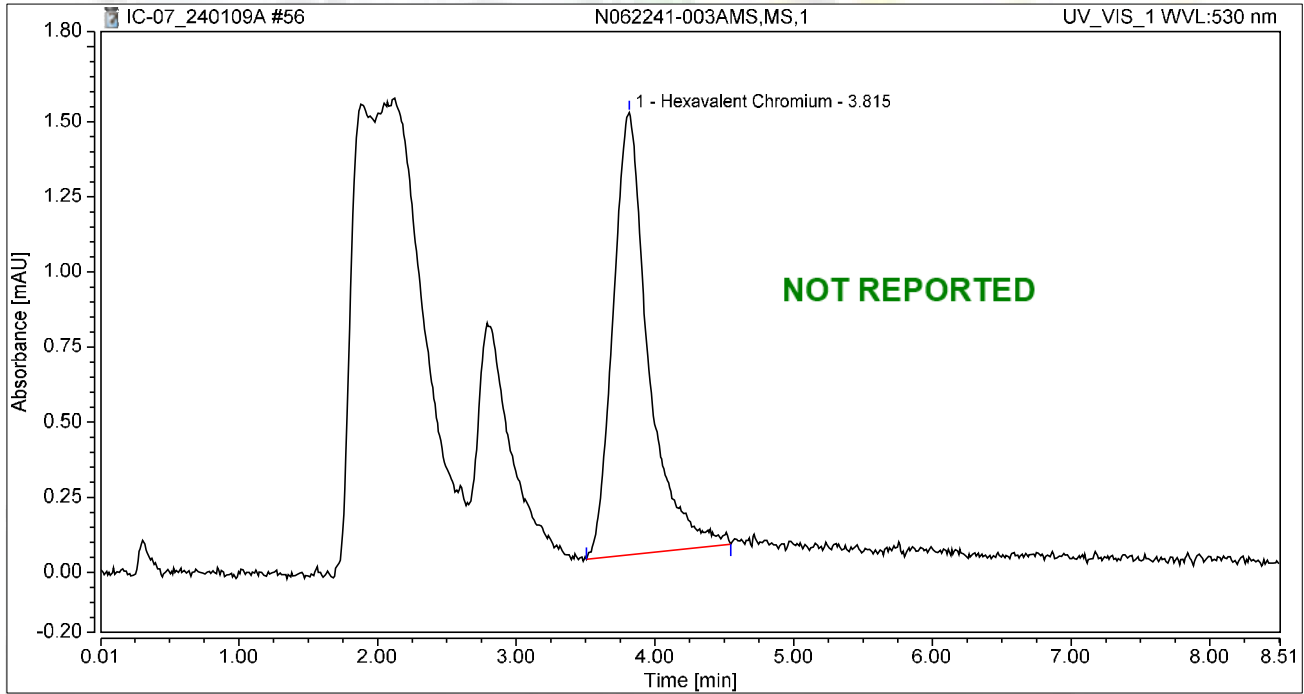
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.215	0.762	100.00	100.00	1.0356
Total:			0.215	0.762	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:16	Sample Weight:	1.0000

Chromatogram



Integration Results

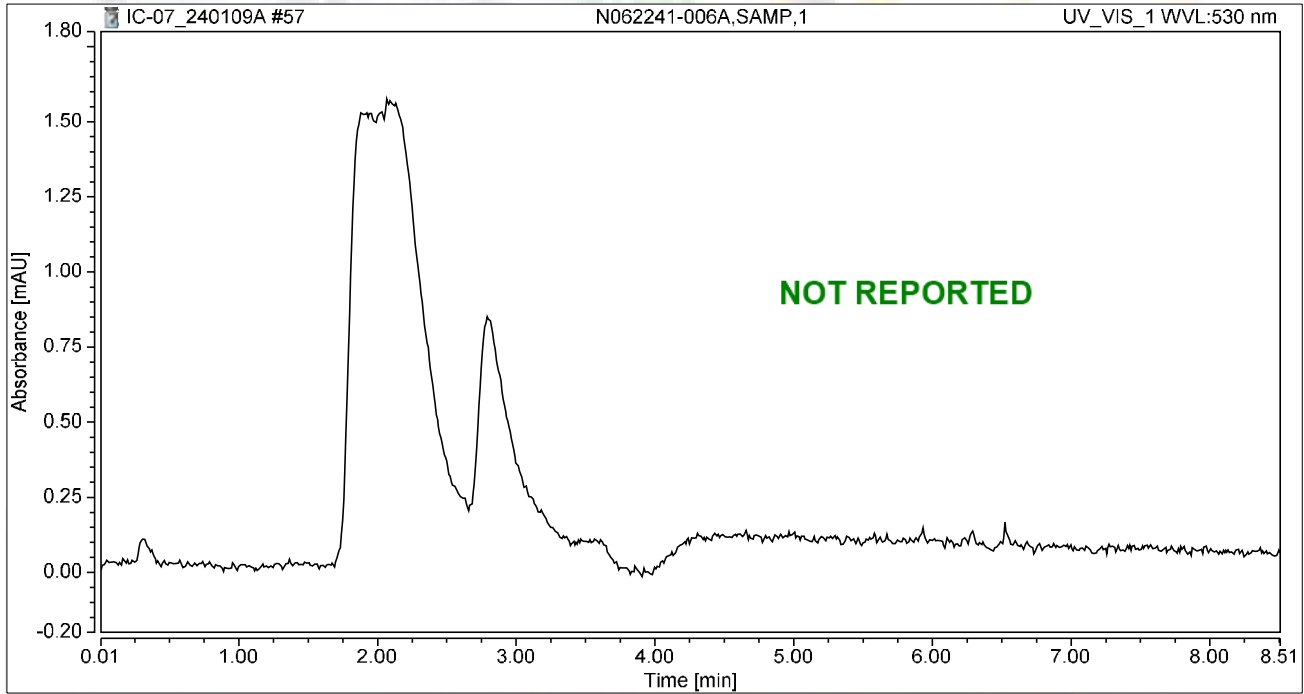
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.433	1.472	100.00	100.00	2.0825
Total:			0.433	1.472	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:25	Sample Weight:	1.0000

Chromatogram



Integration Results

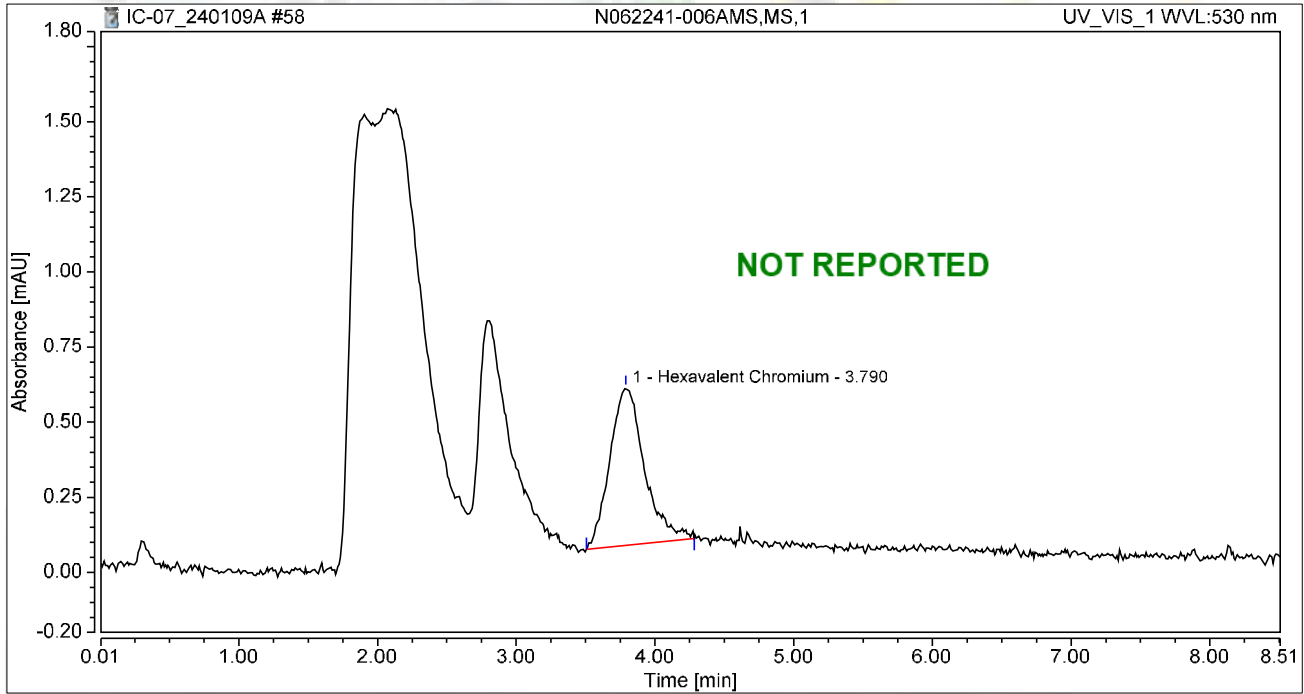
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:34	Sample Weight:	1.0000

Chromatogram



Integration Results

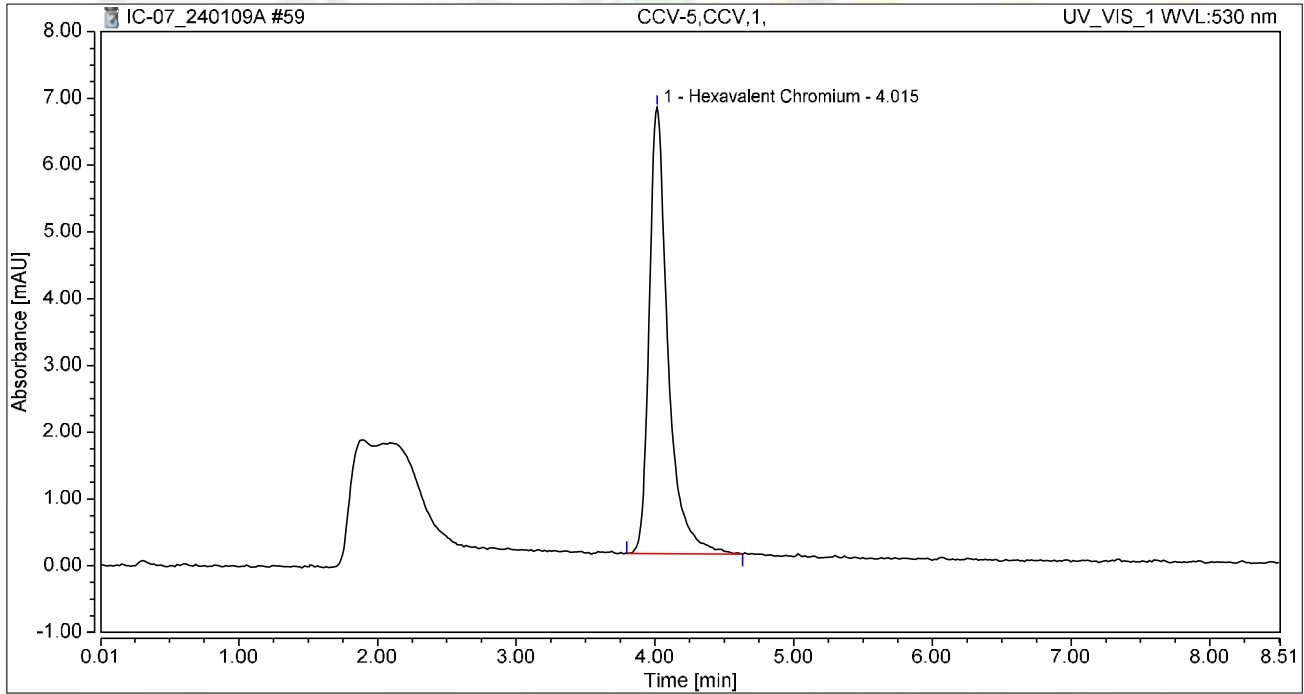
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.790	0.152	0.525	100.00	100.00	0.7291
Total:			0.152	0.525	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:44	Sample Weight:	1.0000

Chromatogram

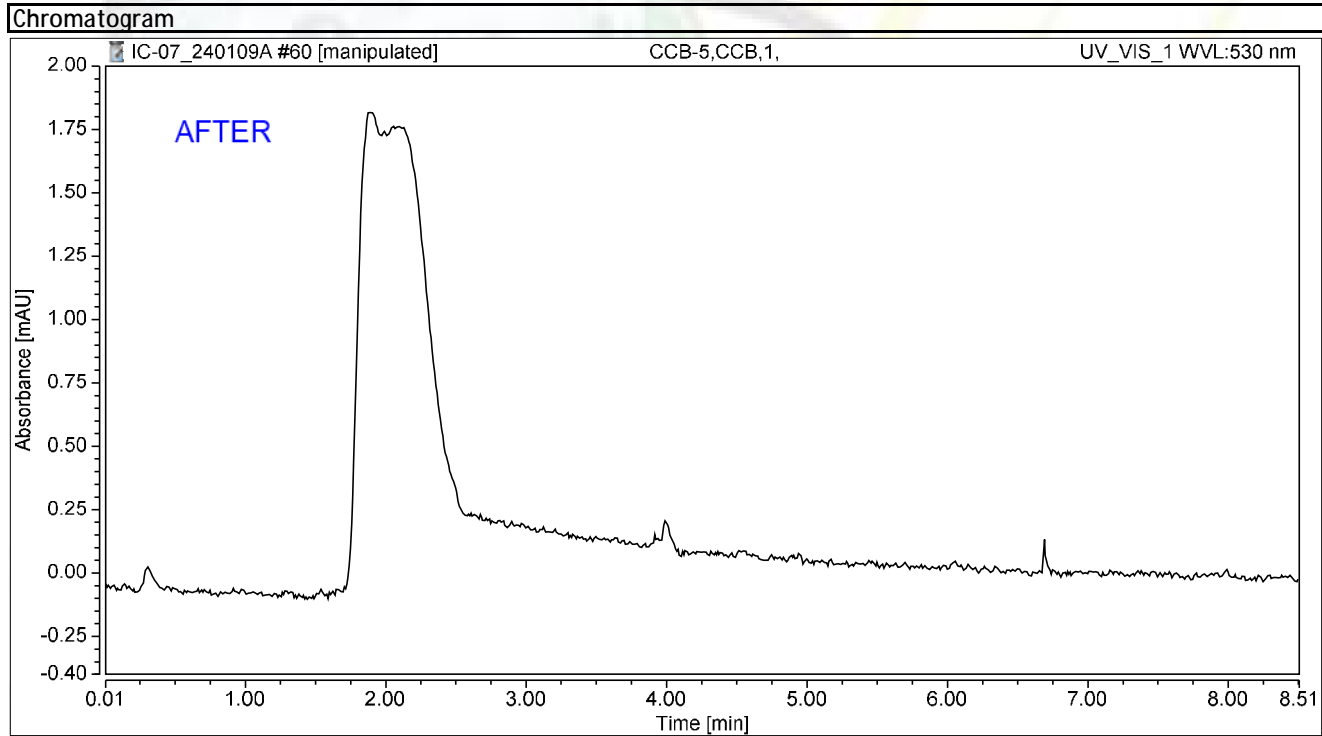


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.049	6.685	100.00	100.00	5.0411
Total:			1.049	6.685	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-5,CCB,1,	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Jan/24 20:53	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

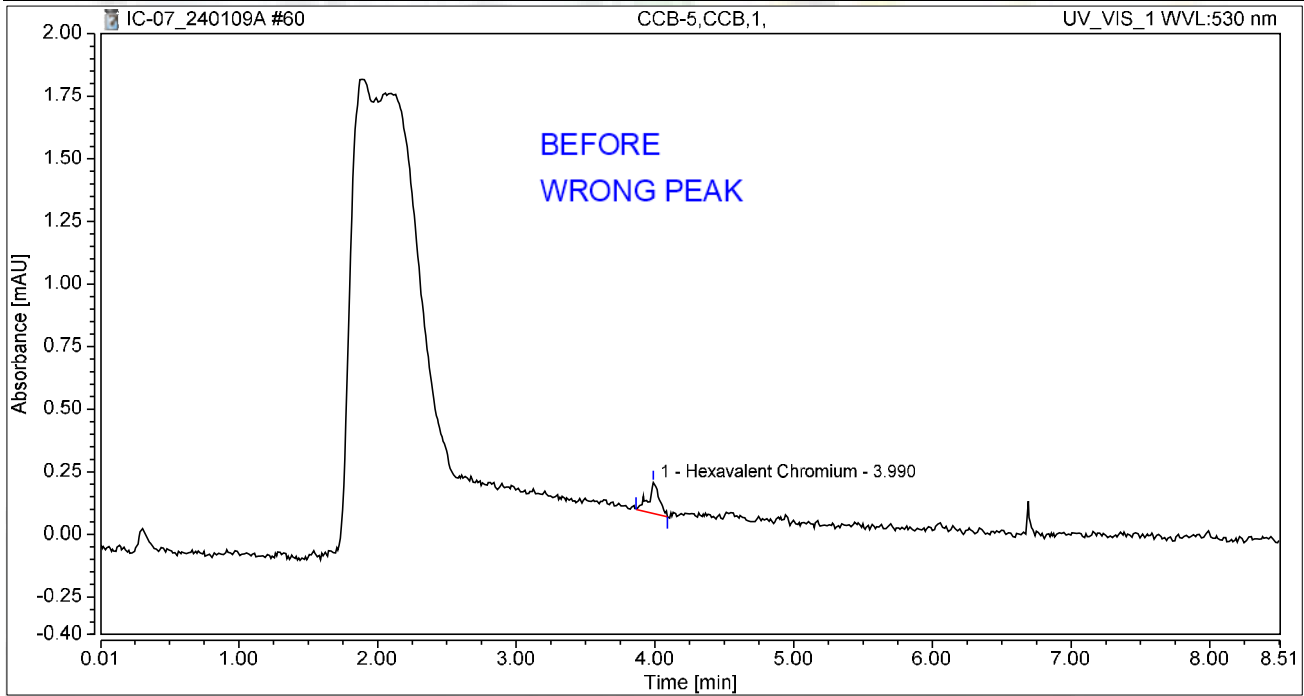
Reviewed by
 01/15/2024

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 20:53	Sample Weight:	1.0000

Chromatogram



Integration Results

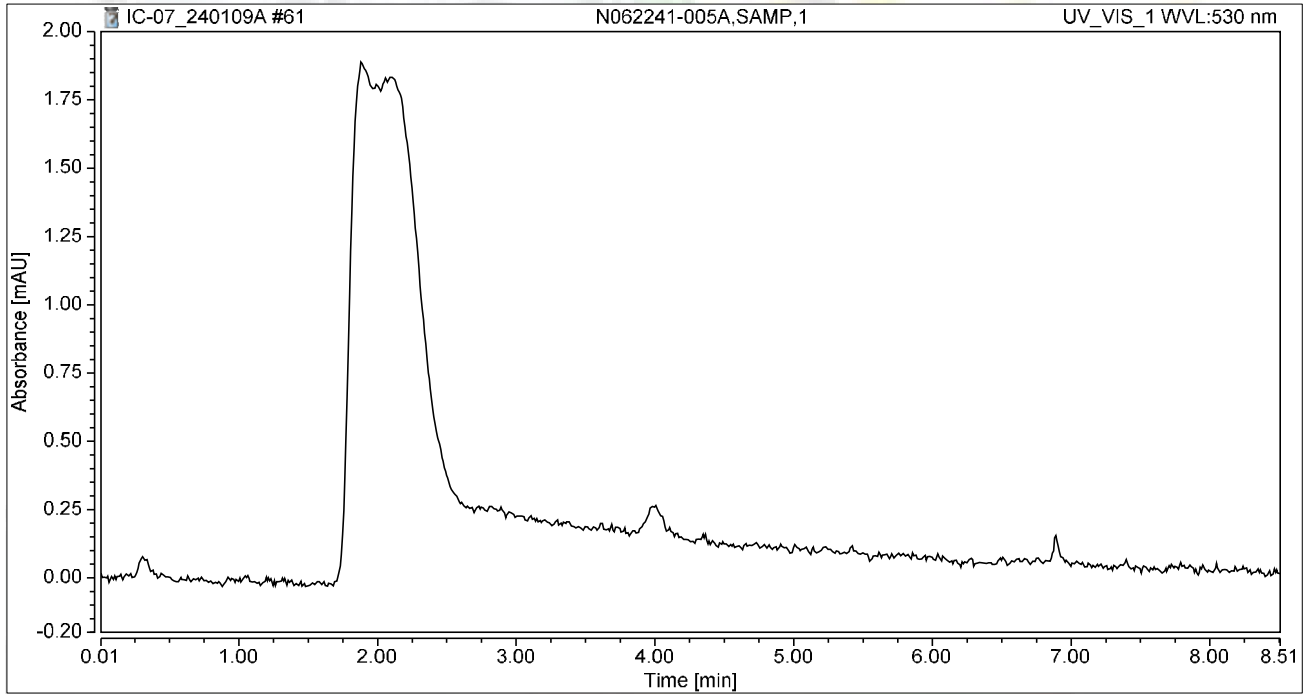
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.011	0.123	100.00	100.00	0.0528
Total:			0.011	0.123	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

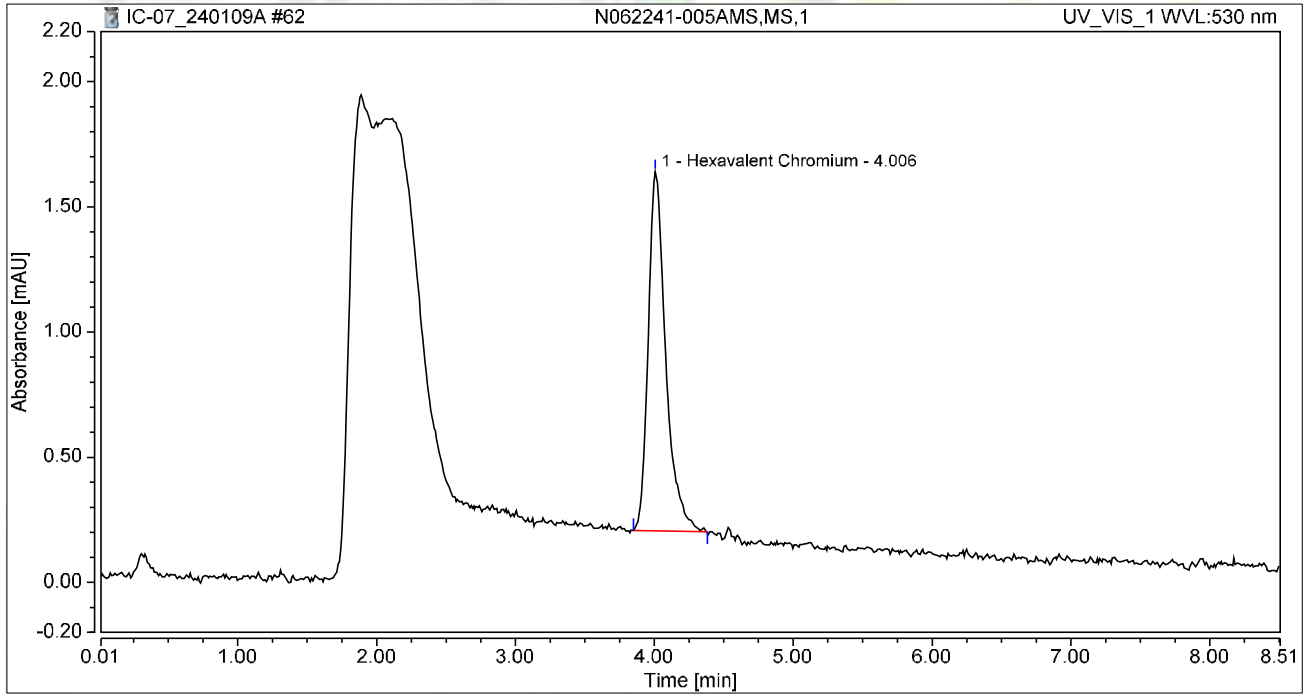
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:12	Sample Weight:	1.0000

Chromatogram



Integration Results

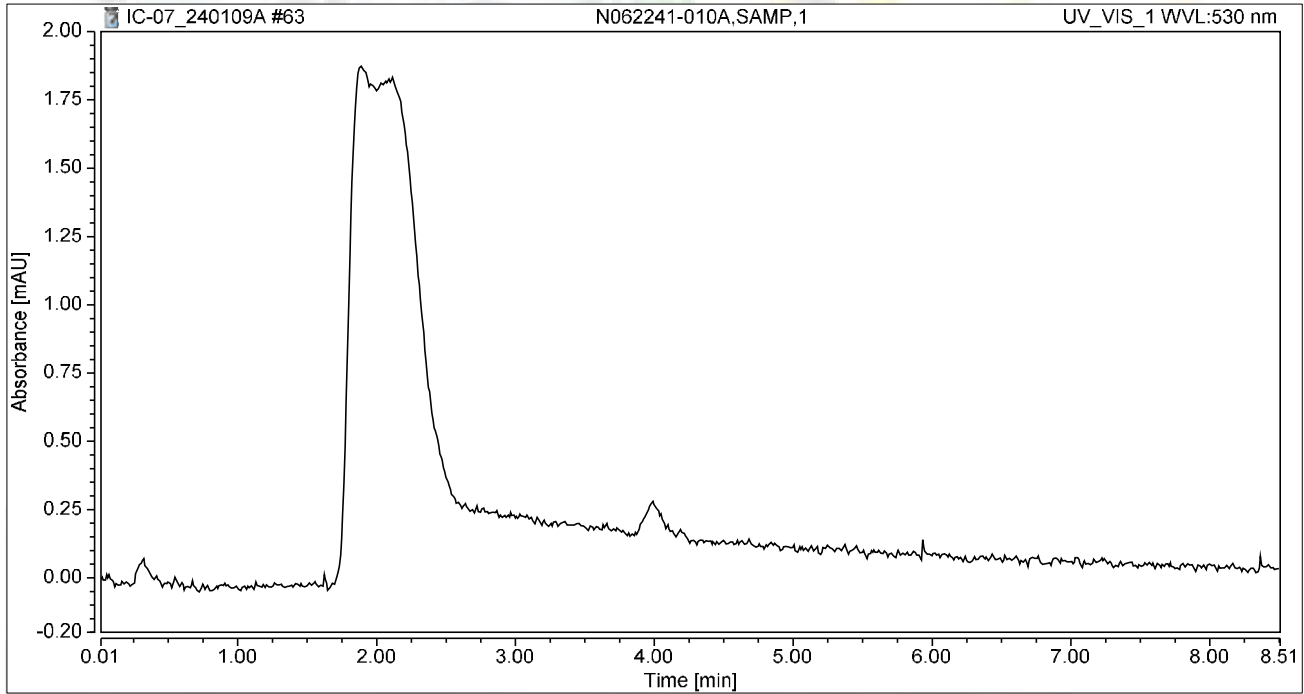
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.210	1.434	100.00	100.00	1.0113
Total:			0.210	1.434	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-010A,SAMP,1	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:21	Sample Weight:	1.0000

Chromatogram



Integration Results

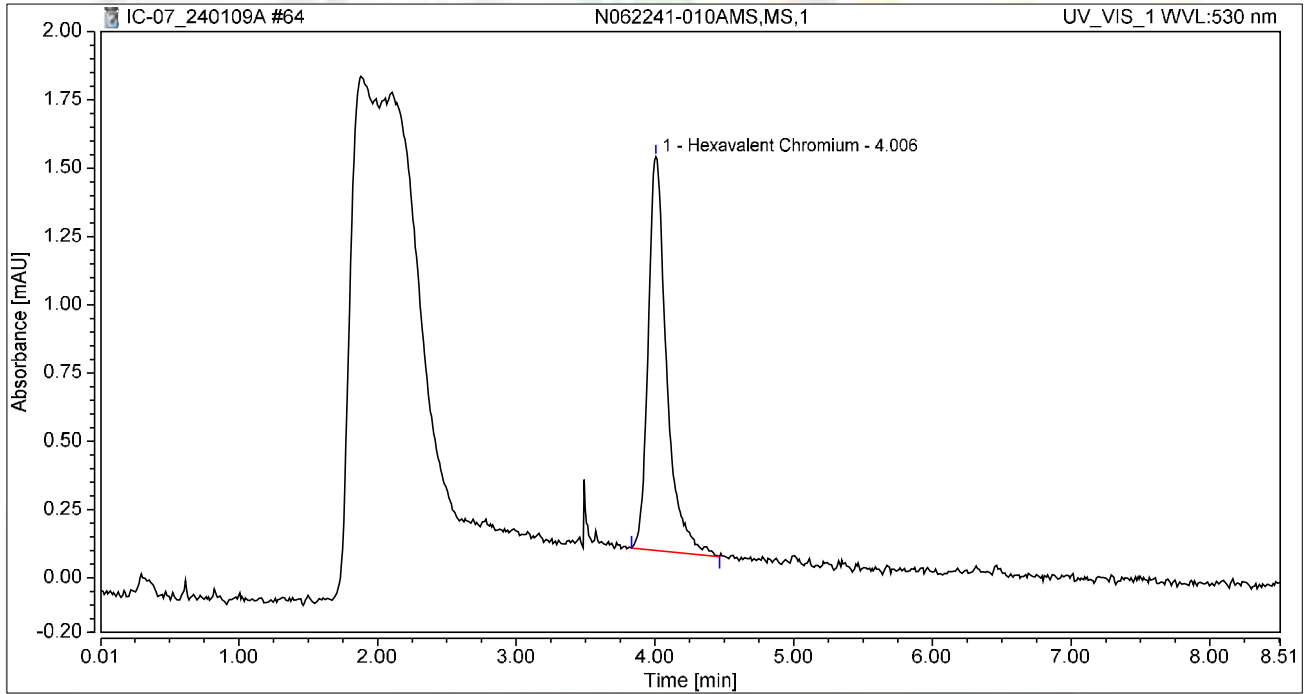
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:35	Sample Weight:	1.0000

Chromatogram



Integration Results

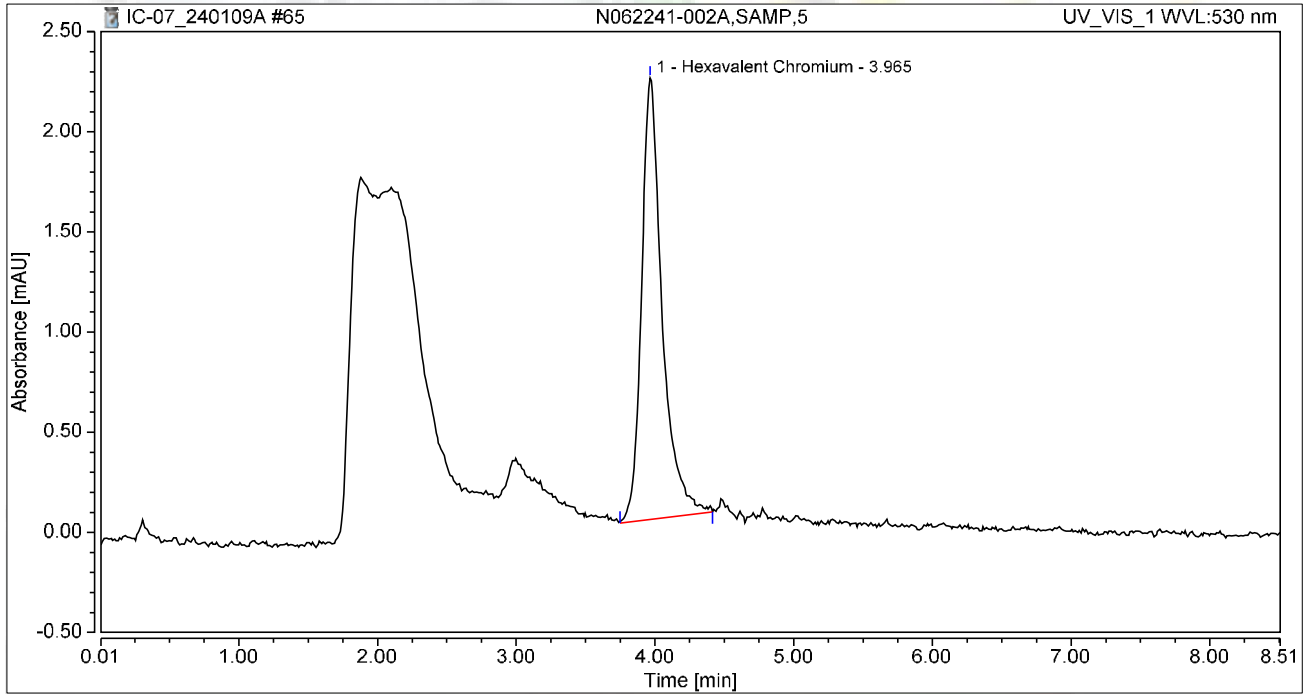
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.222	1.441	100.00	100.00	1.0663
Total:			0.222	1.441	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:44	Sample Weight:	1.0000

Chromatogram



Integration Results

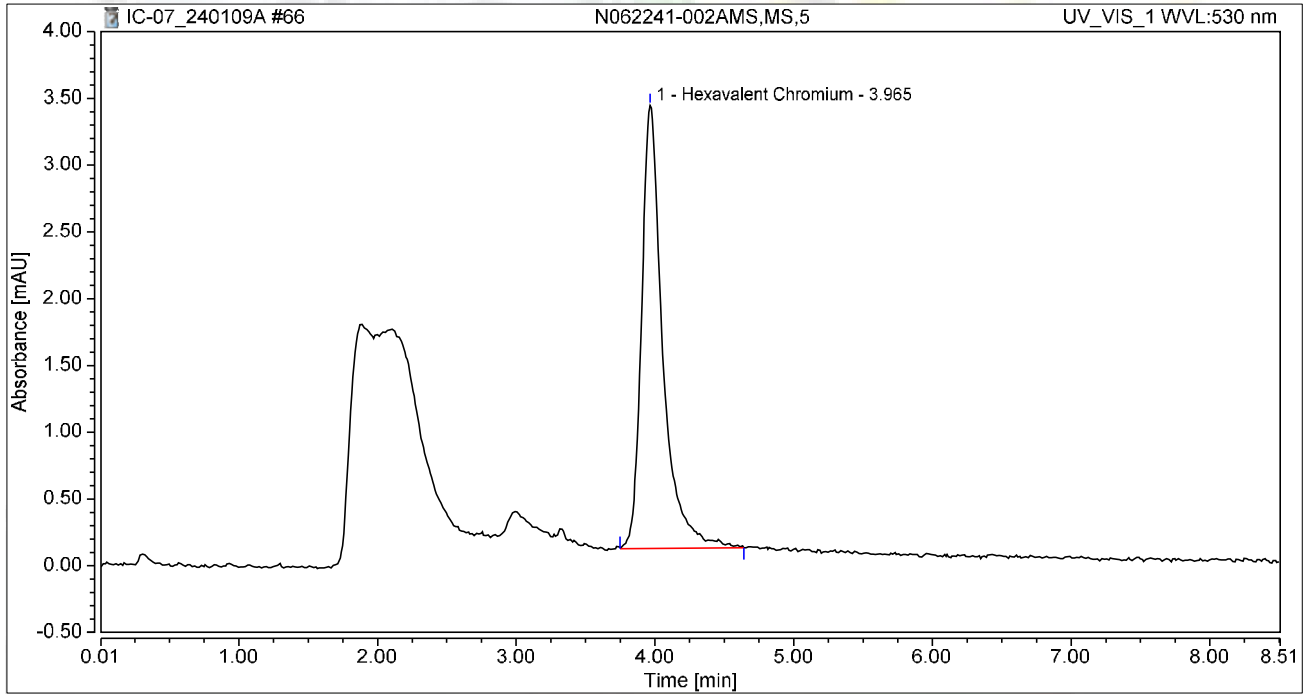
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.379	2.204	100.00	100.00	1.8224
Total:			0.379	2.204	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

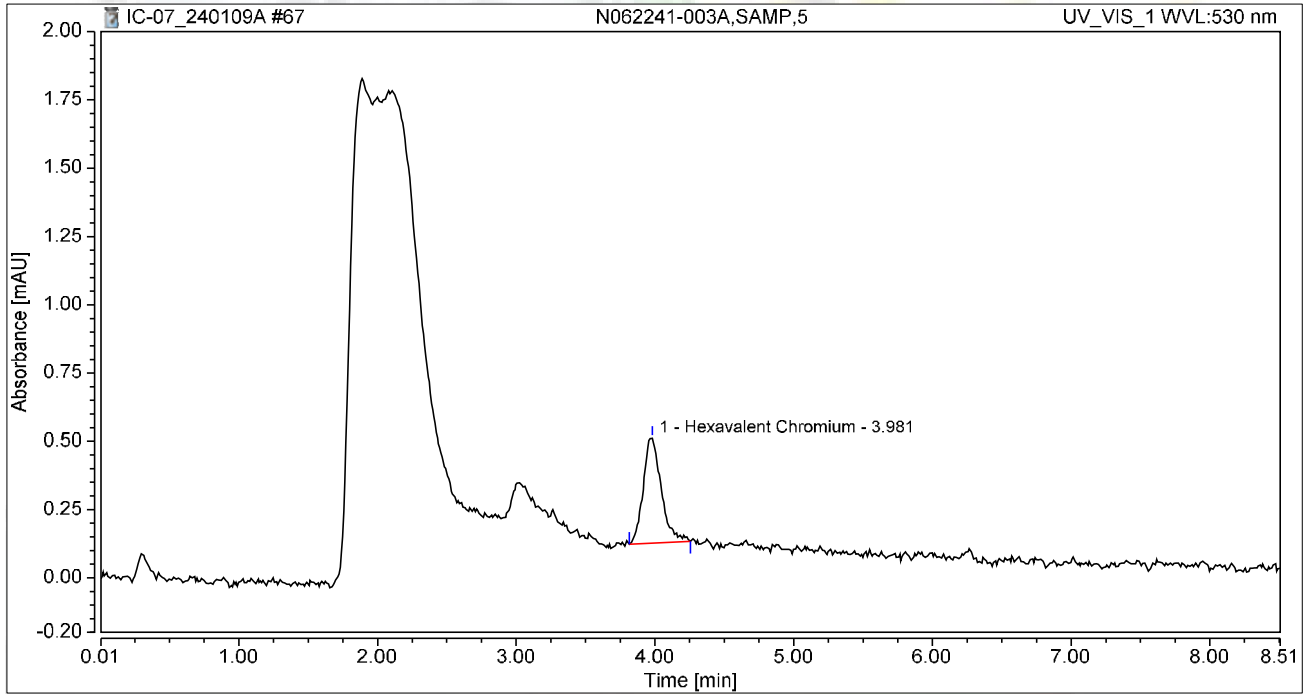
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.588	3.315	100.00	100.00	2.8254
Total:			0.588	3.315	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:03	Sample Weight:	1.0000

Chromatogram



Integration Results

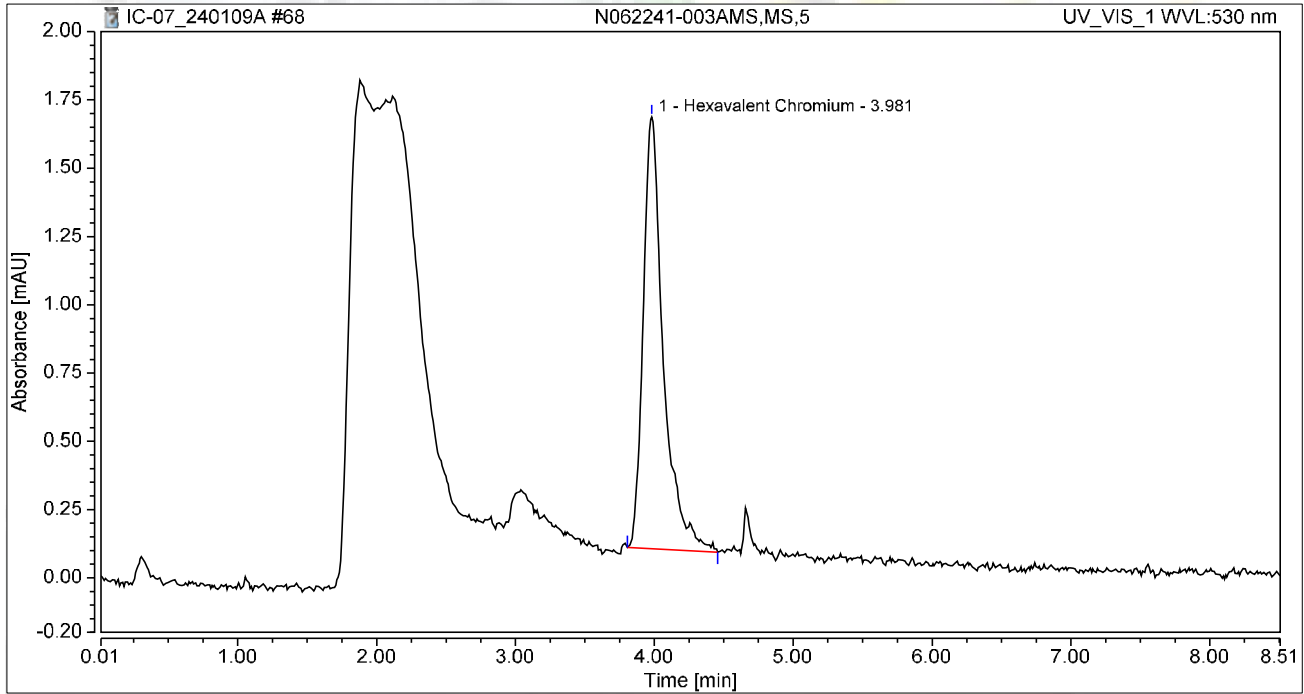
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.058	0.384	100.00	100.00	0.2800
Total:			0.058	0.384	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:12	Sample Weight:	1.0000

Chromatogram



Integration Results

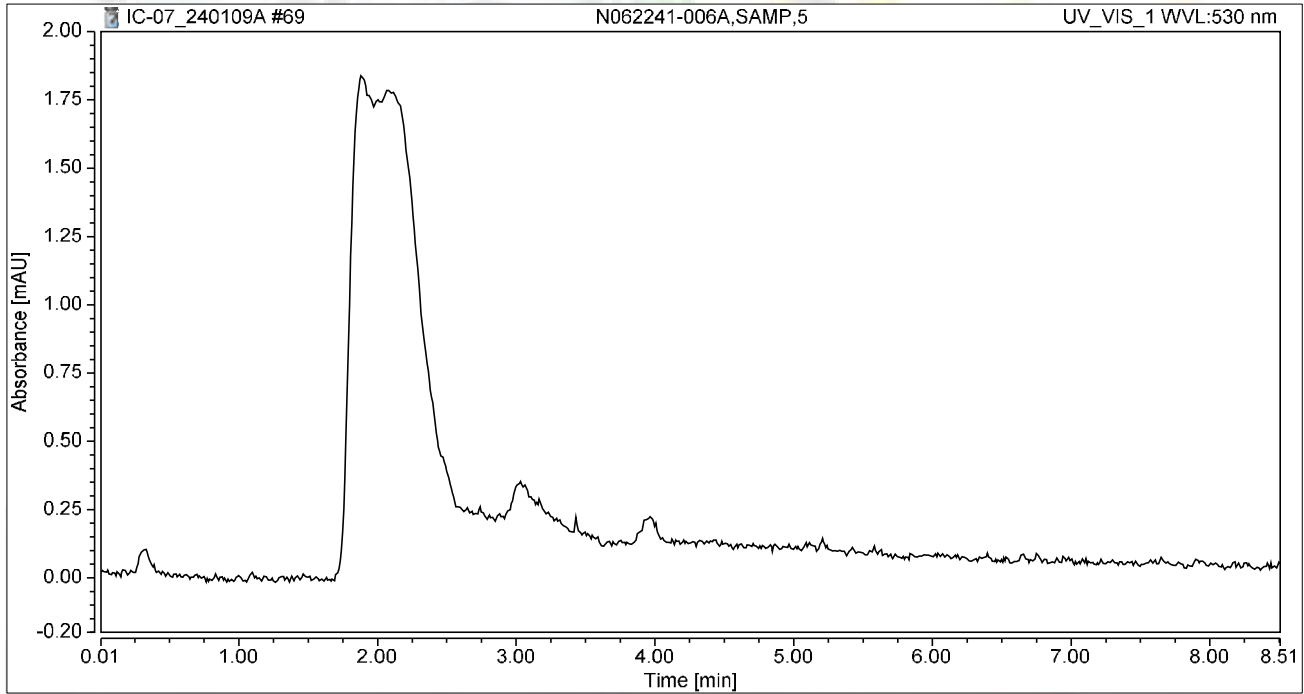
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.266	1.581	100.00	100.00	1.2781
Total:			0.266	1.581	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:22	Sample Weight:	1.0000

Chromatogram



Integration Results

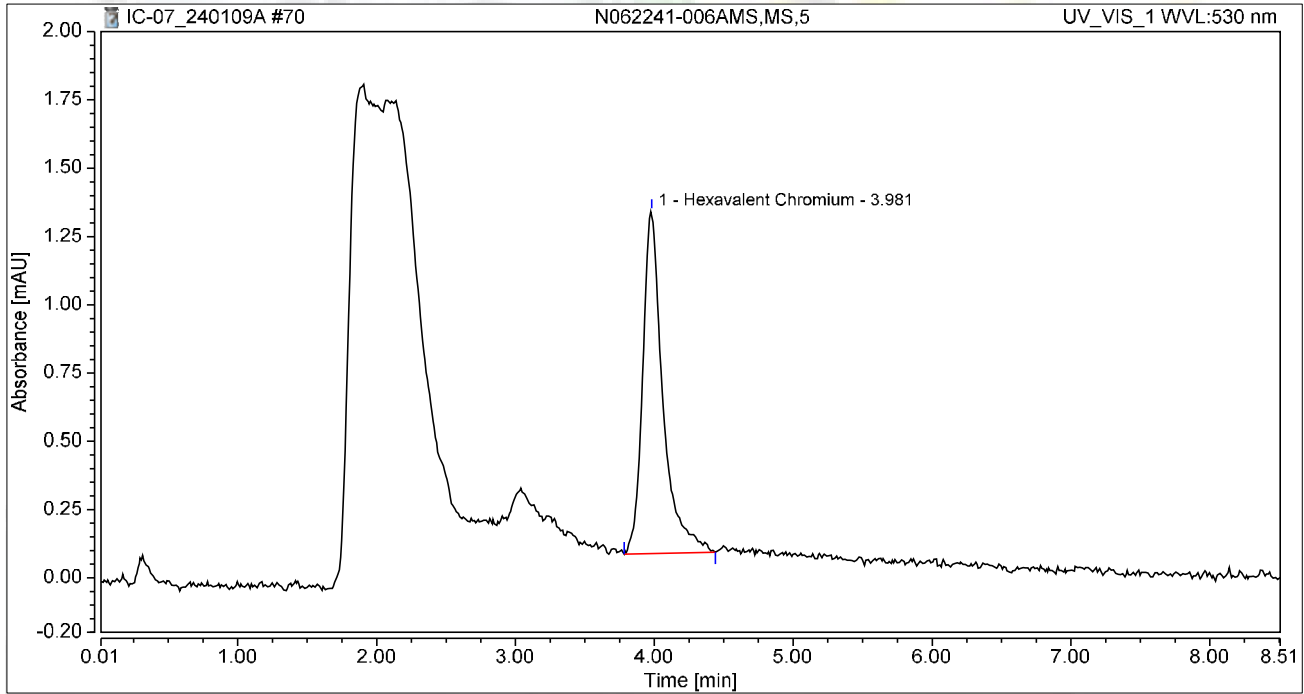
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-006AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:31	Sample Weight:	1.0000

Chromatogram



Integration Results

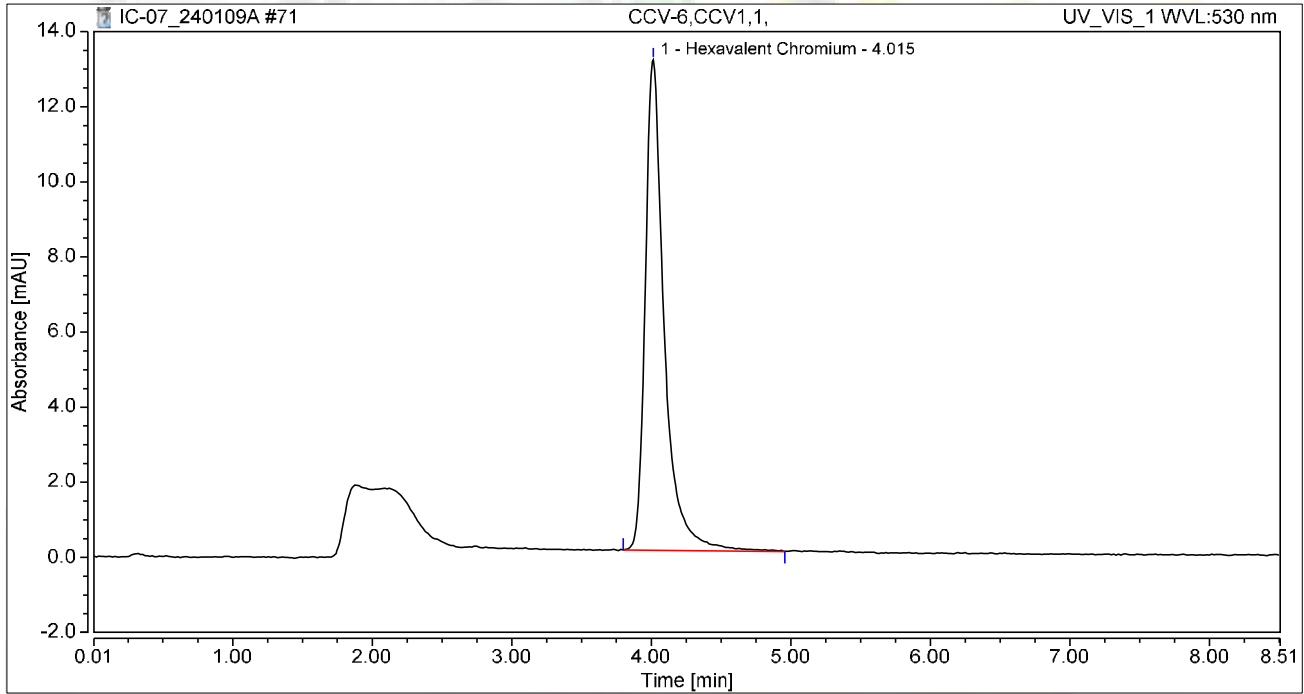
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.212	1.253	100.00	100.00	1.0197
Total:			0.212	1.253	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:41	Sample Weight:	1.0000

Chromatogram



Integration Results

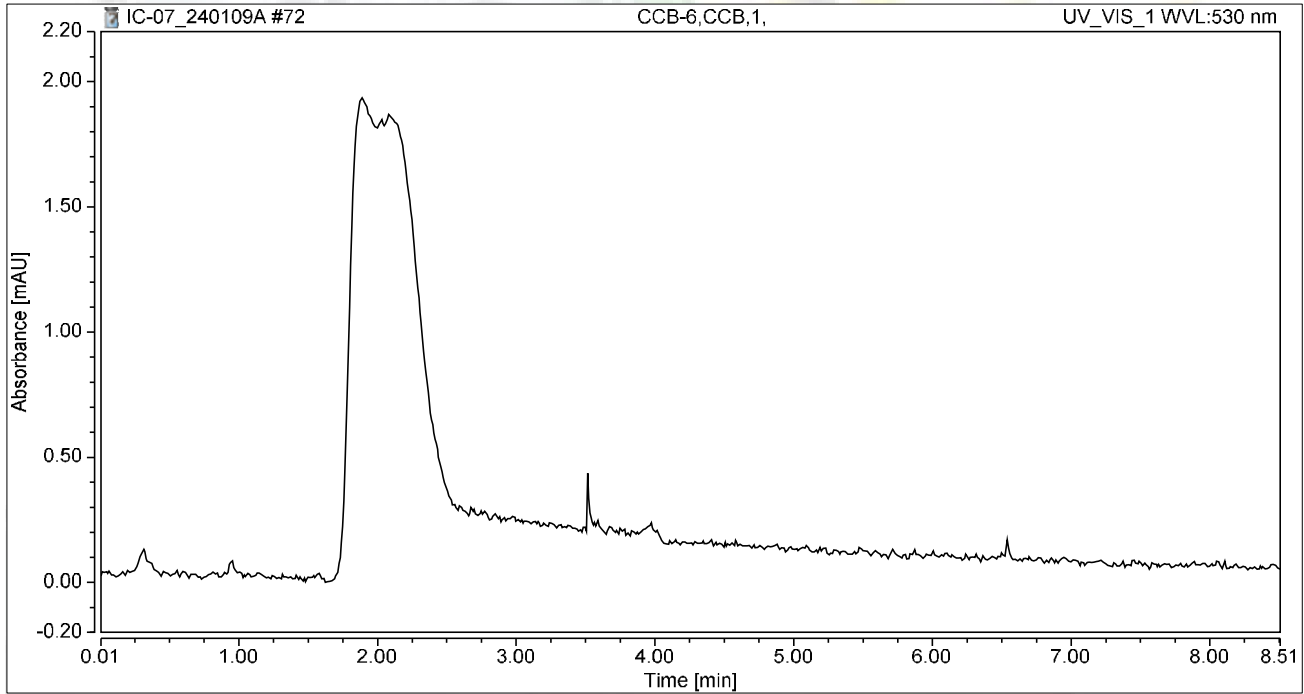
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.066	13.060	100.00	100.00	9.9305
Total:			2.066	13.060	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:50	Sample Weight:	1.0000

Chromatogram



Integration Results

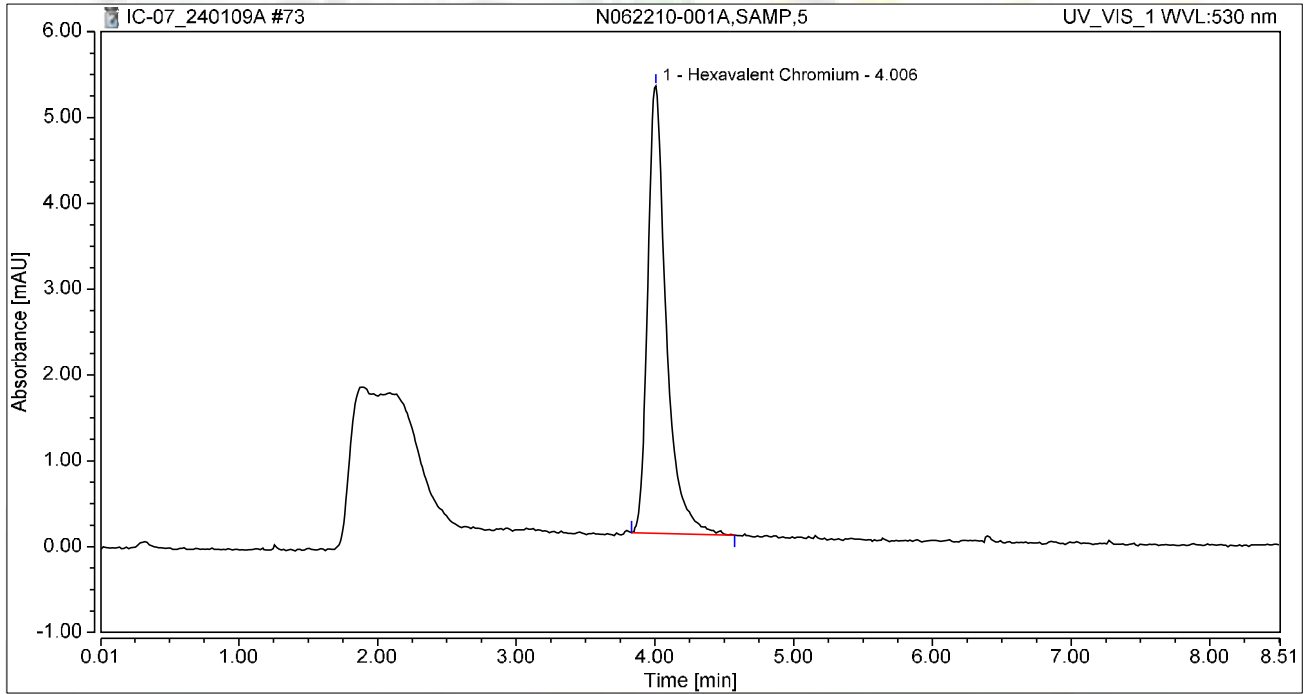
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062210-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 22:59	Sample Weight:	1.0000

Chromatogram



Integration Results

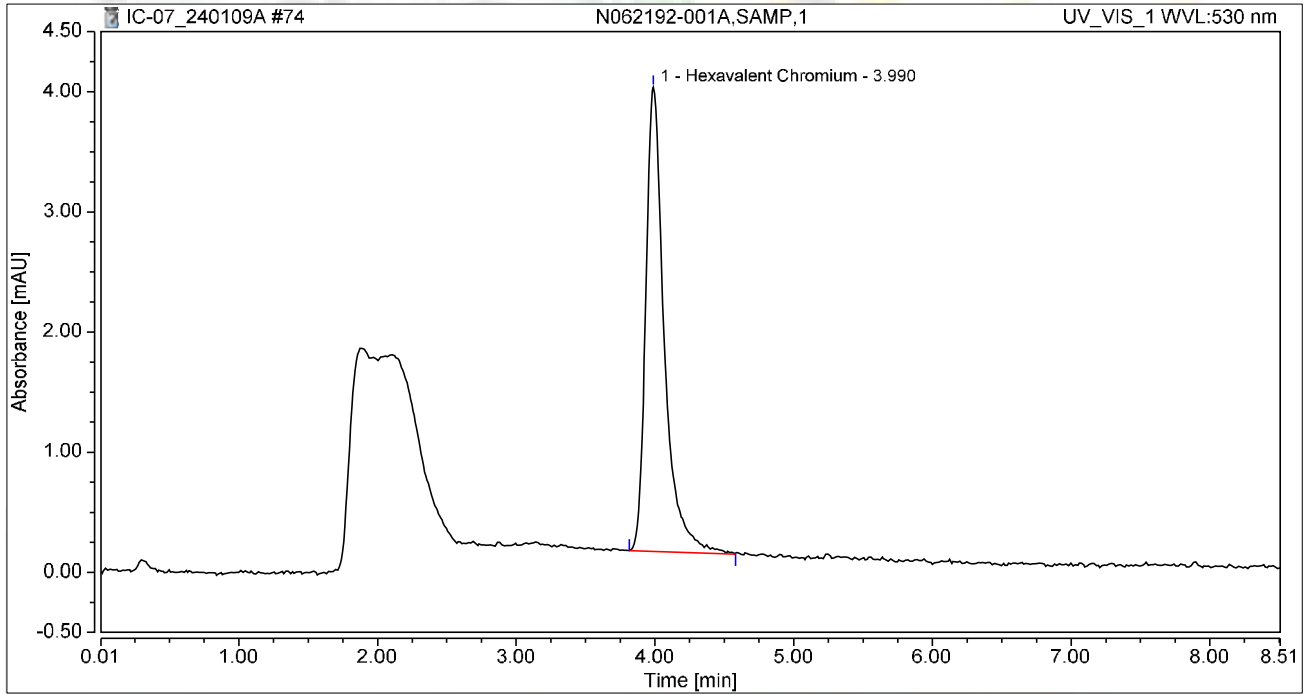
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.809	5.209	100.00	100.00	3.8865
Total:			0.809	5.209	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062192-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:09	Sample Weight:	1.0000

Chromatogram



Integration Results

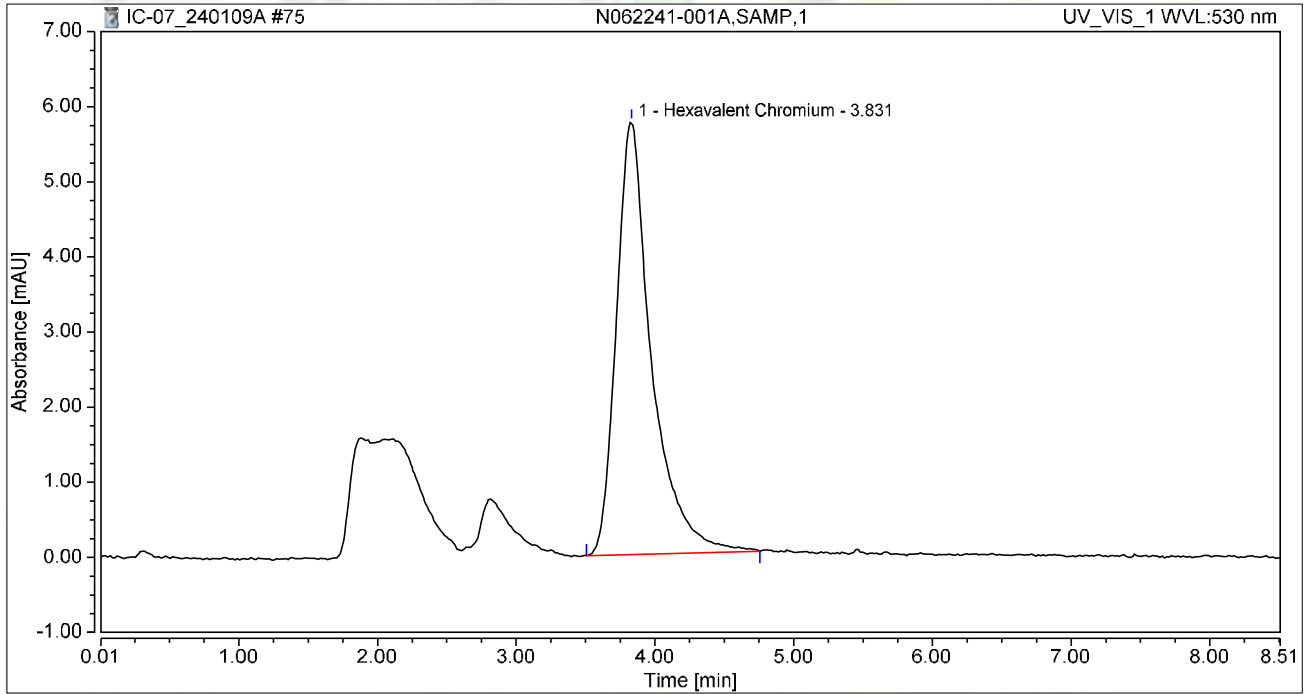
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.598	3.864	100.00	100.00	2.8717
Total:			0.598	3.864	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:18	Sample Weight:	1.0000

Chromatogram



Integration Results

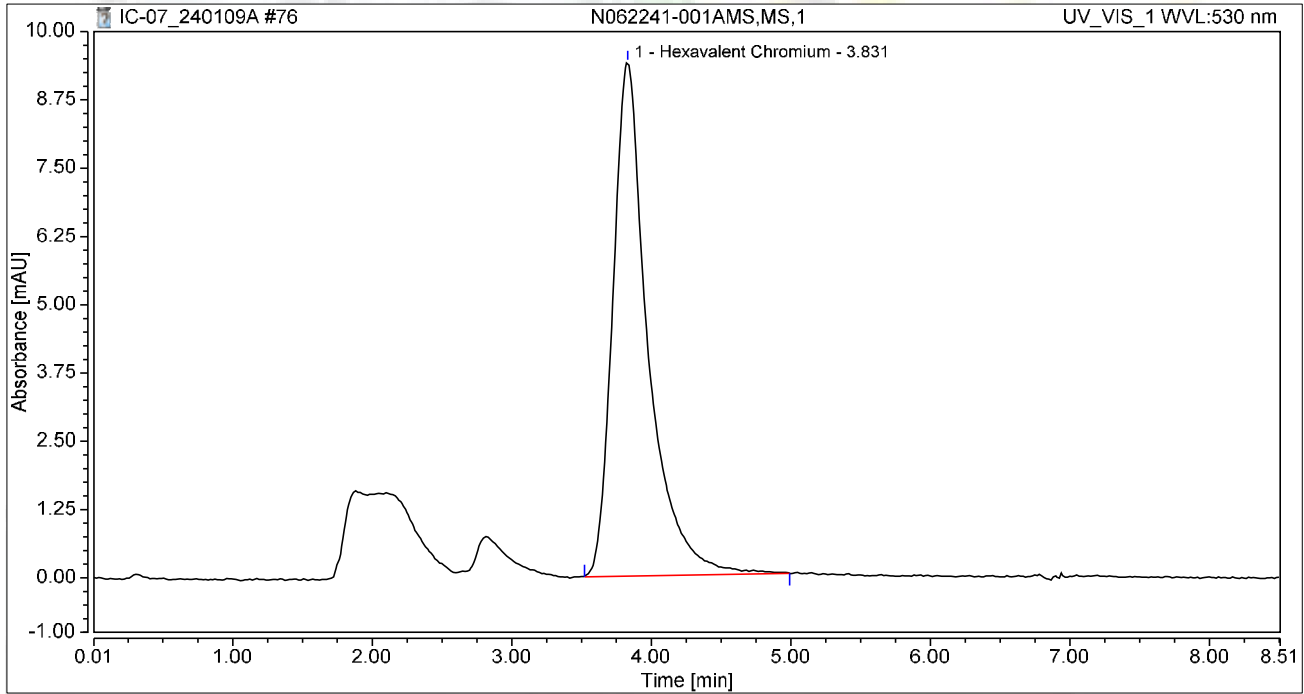
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	1.688	5.768	100.00	100.00	8.1146
Total:			1.688	5.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:28	Sample Weight:	1.0000

Chromatogram



Integration Results

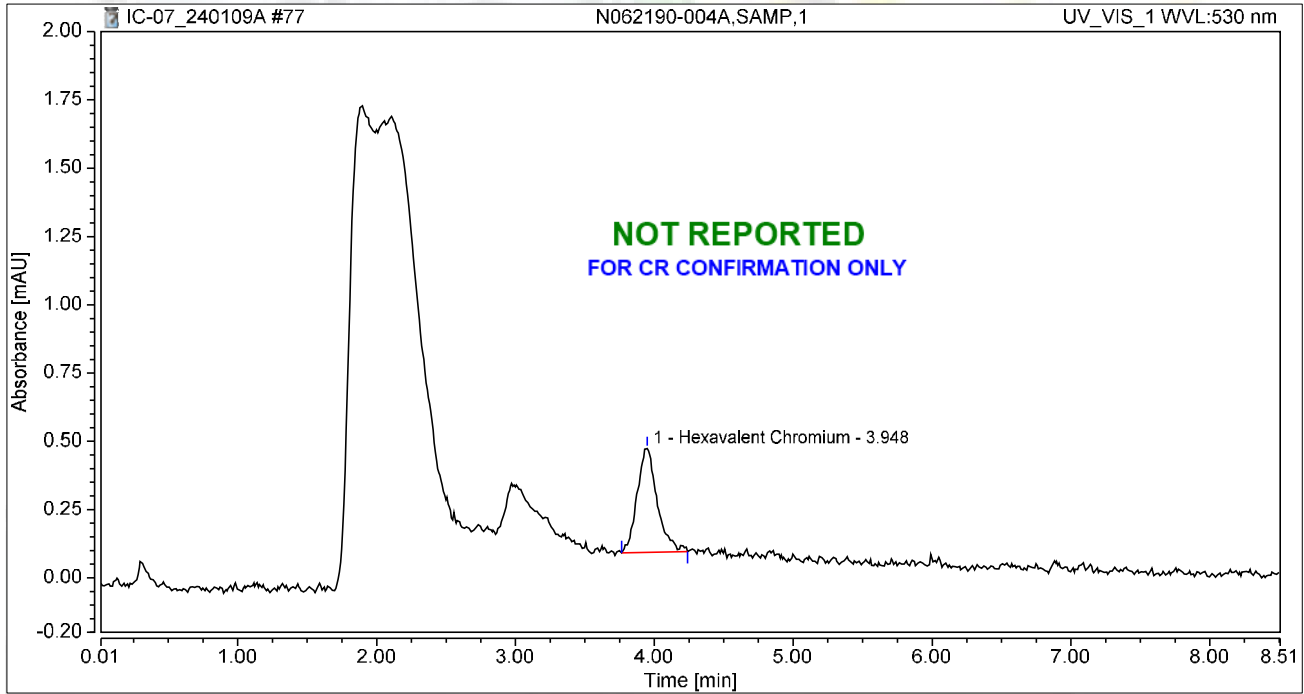
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	2.747	9.392	100.00	100.00	13.2028
Total:			2.747	9.392	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062190-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:37	Sample Weight:	1.0000

Chromatogram



Integration Results

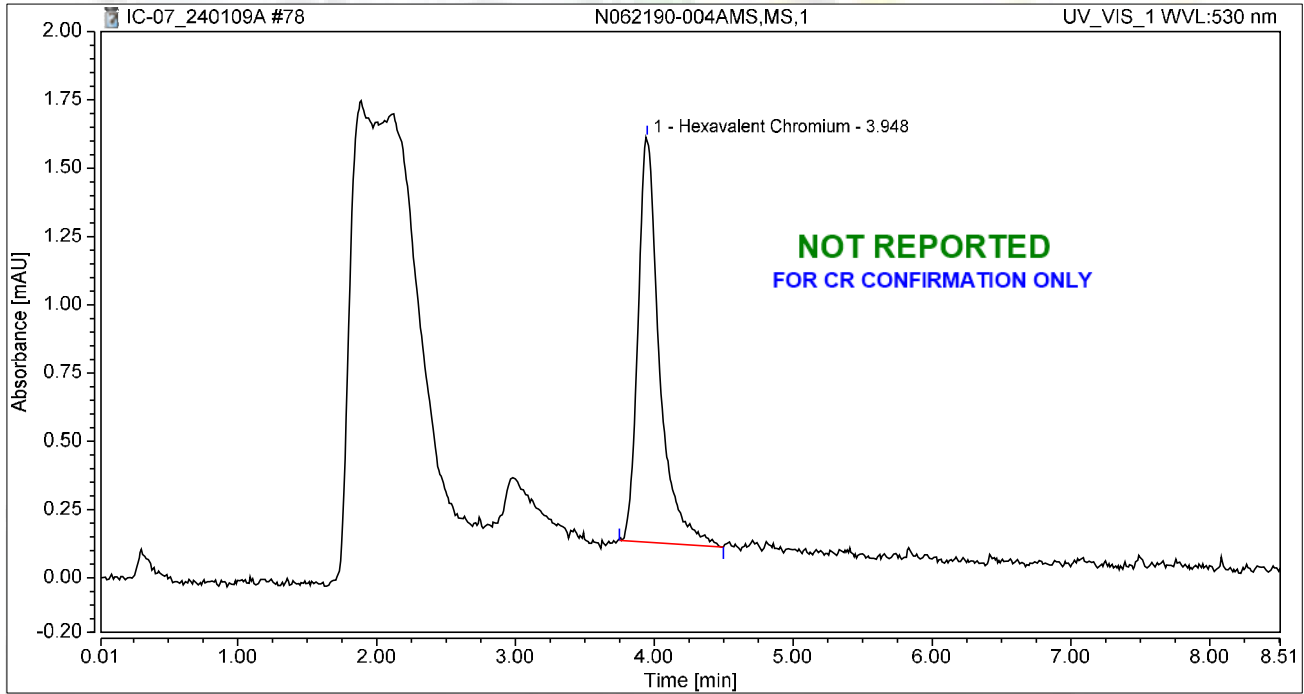
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	0.064	0.379	100.00	100.00	0.3075
Total:			0.064	0.379	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062190-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:47	Sample Weight:	1.0000

Chromatogram



Integration Results

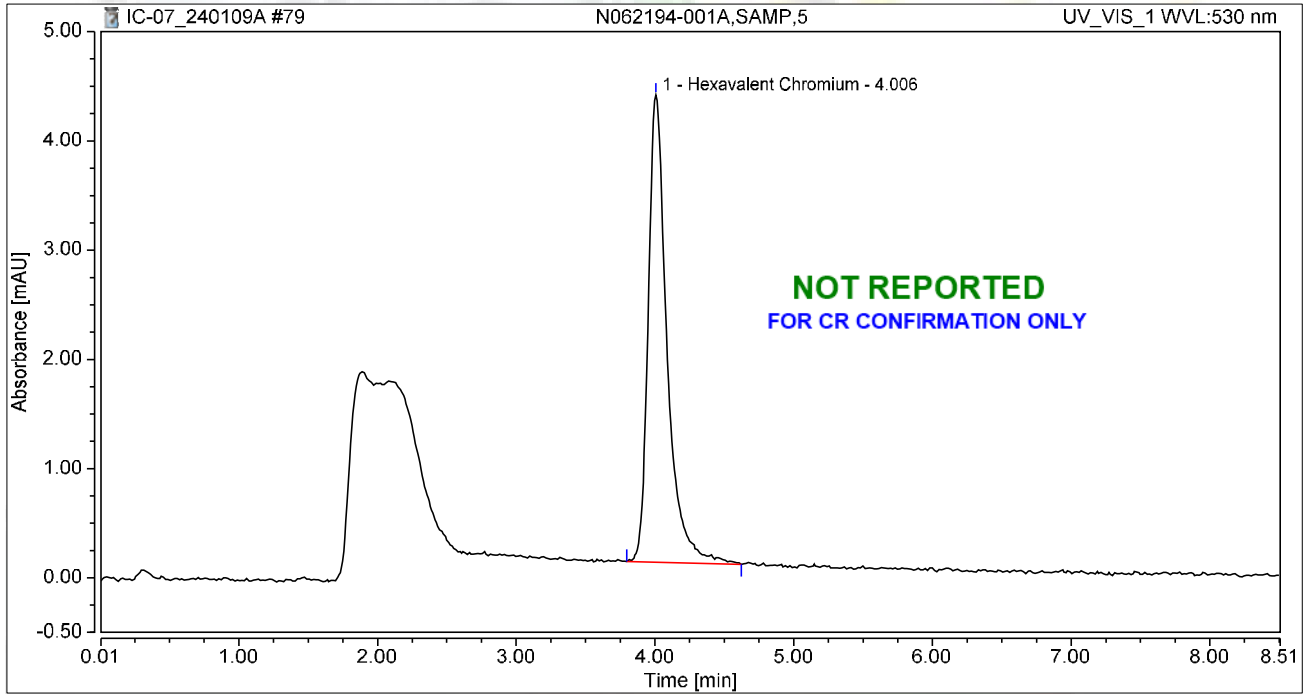
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	0.266	1.481	100.00	100.00	1.2795
Total:			0.266	1.481	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Jan/24 23:56	Sample Weight:	1.0000

Chromatogram



Integration Results

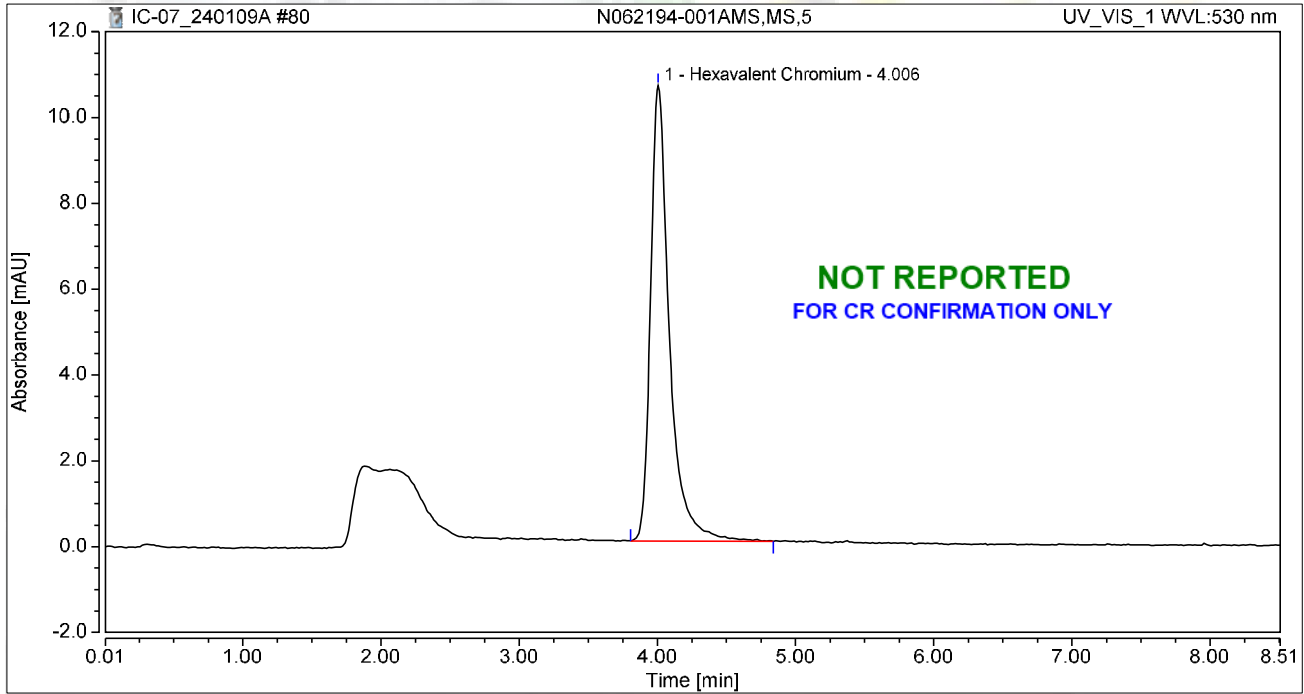
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.673	4.274	100.00	100.00	3.2323
Total:			0.673	4.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:06	Sample Weight:	1.0000

Chromatogram



Integration Results

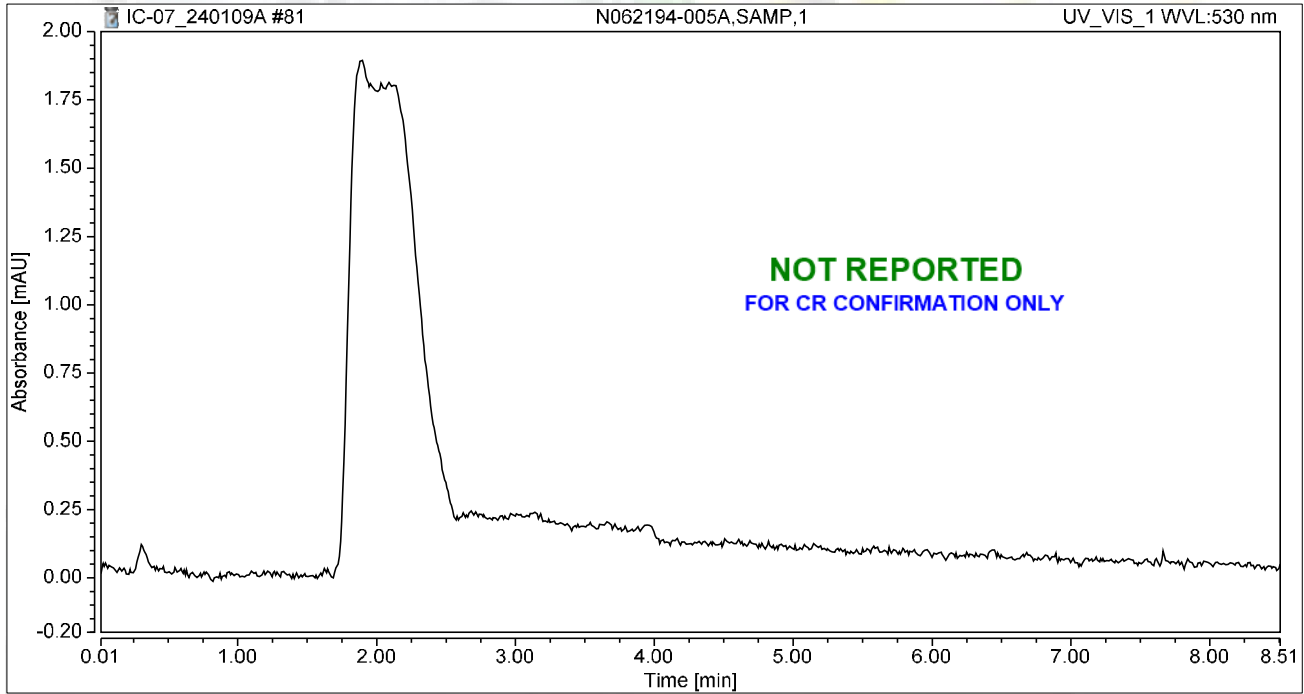
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.678	10.618	100.00	100.00	8.0641
Total:			1.678	10.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:15	Sample Weight:	1.0000

Chromatogram



Integration Results

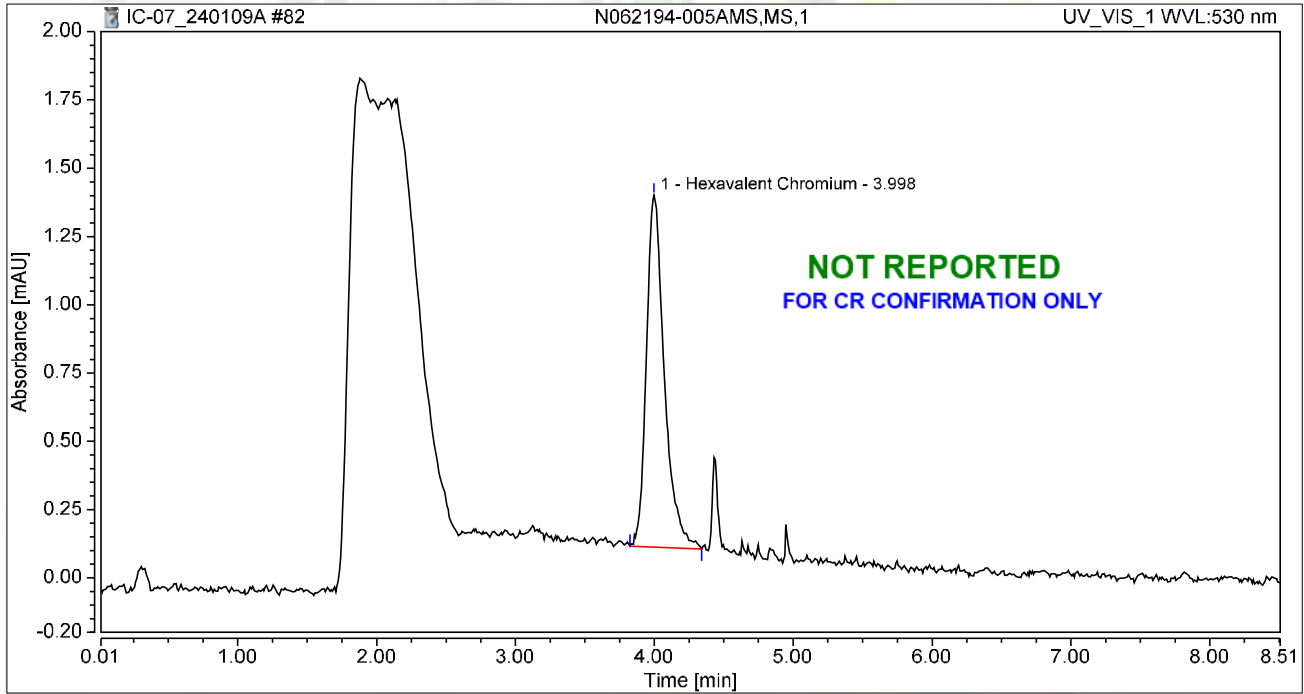
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:25	Sample Weight:	1.0000

Chromatogram



Integration Results

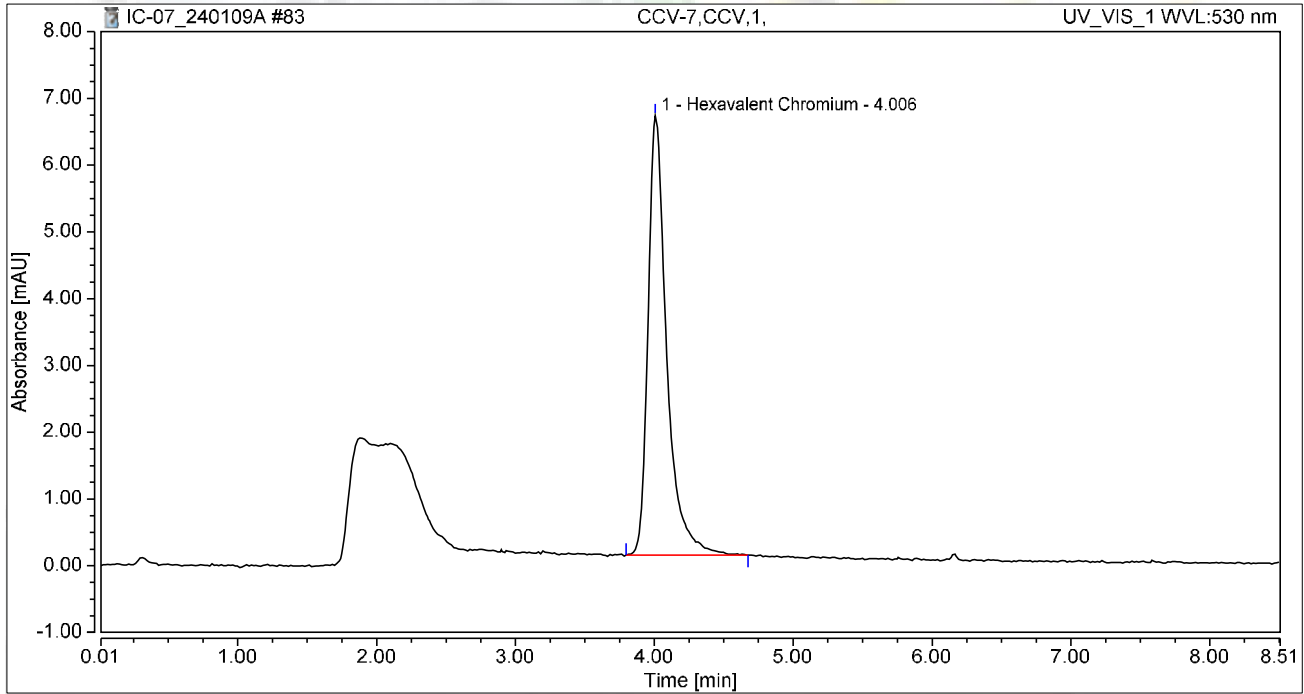
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.194	1.288	100.00	100.00	0.9304
Total:			0.194	1.288	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:34	Sample Weight:	1.0000

Chromatogram



Integration Results

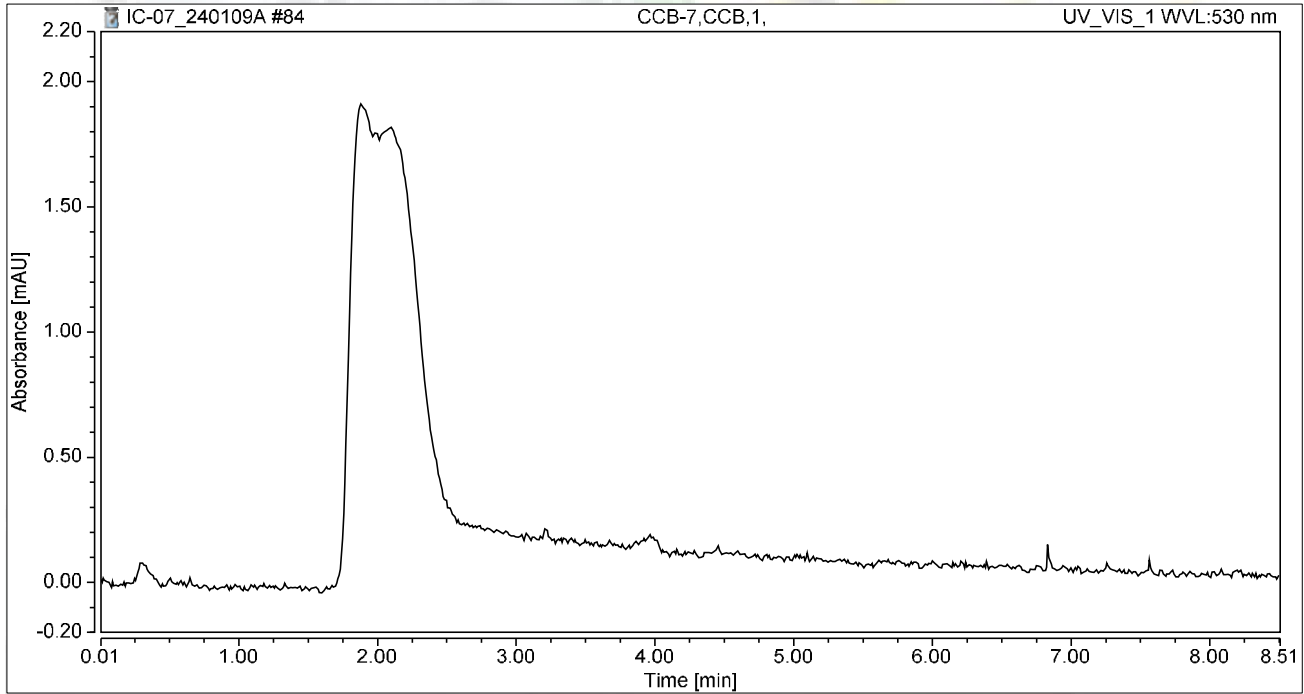
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.029	6.582	100.00	100.00	4.9468
Total:			1.029	6.582	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

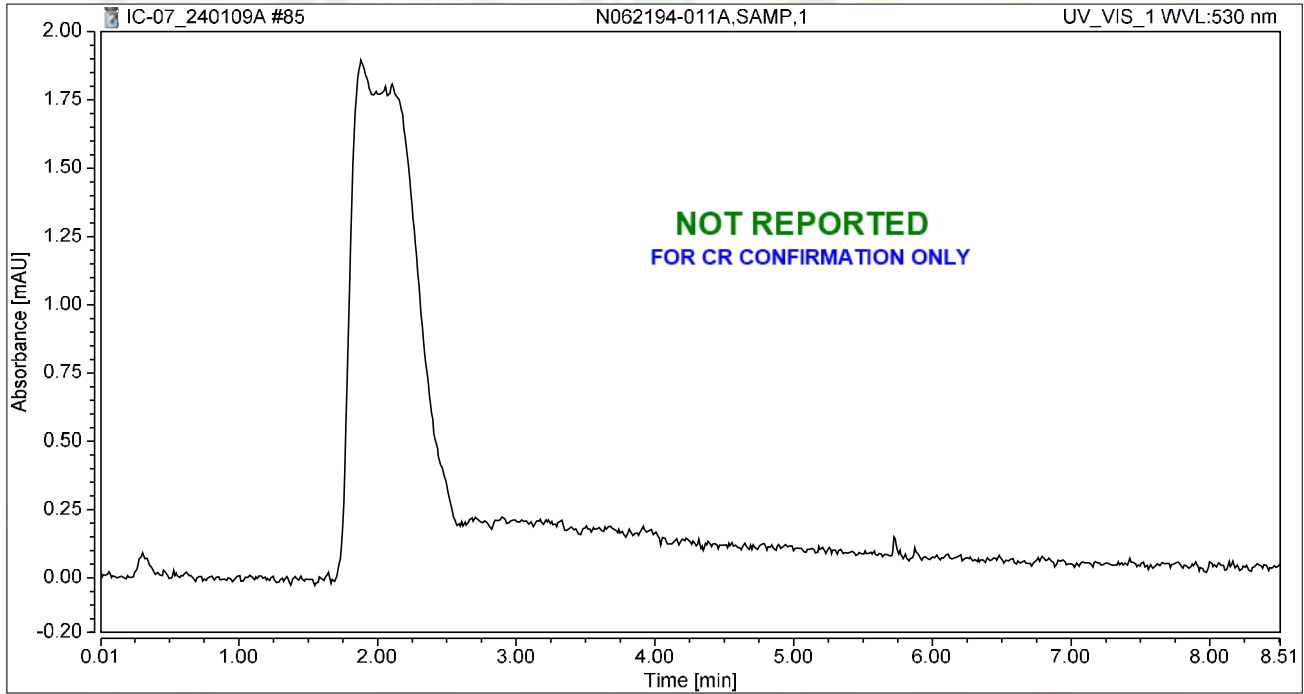


Chromatogram and Results

Injection Details

Injection Name:	N062194-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 00:53	Sample Weight:	1.0000

Chromatogram



Integration Results

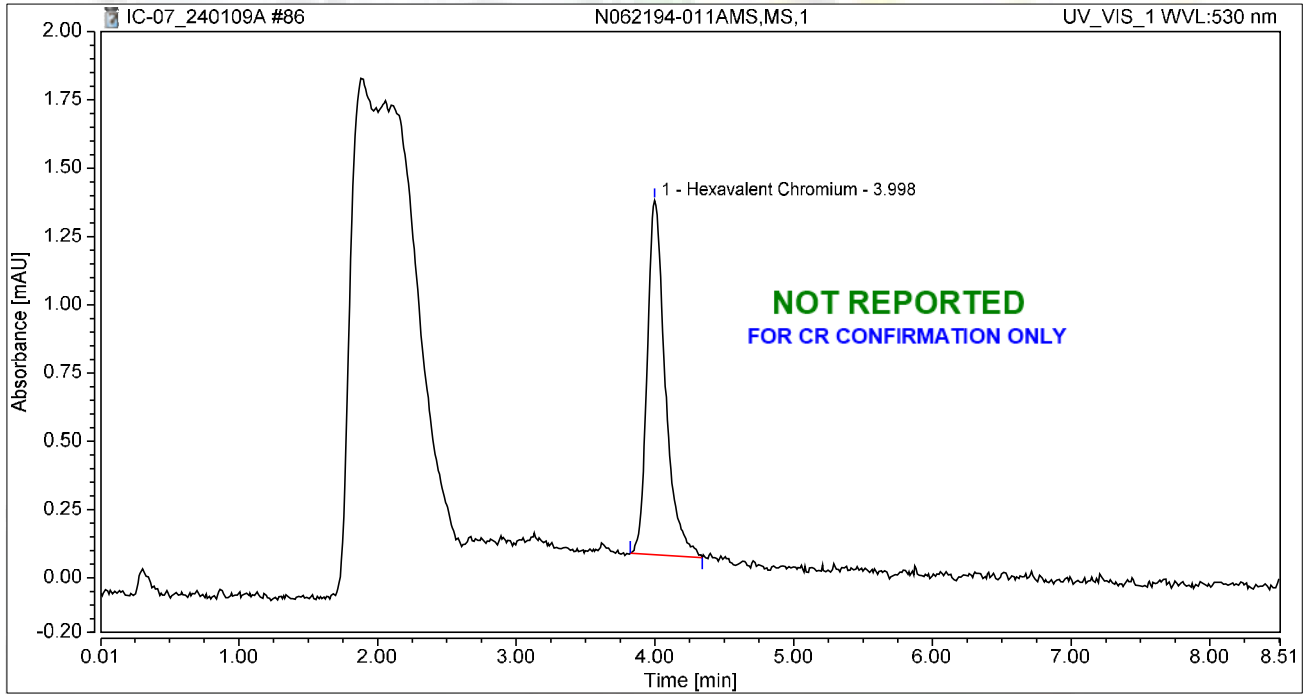
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 01:02	Sample Weight:	1.0000

Chromatogram



Integration Results

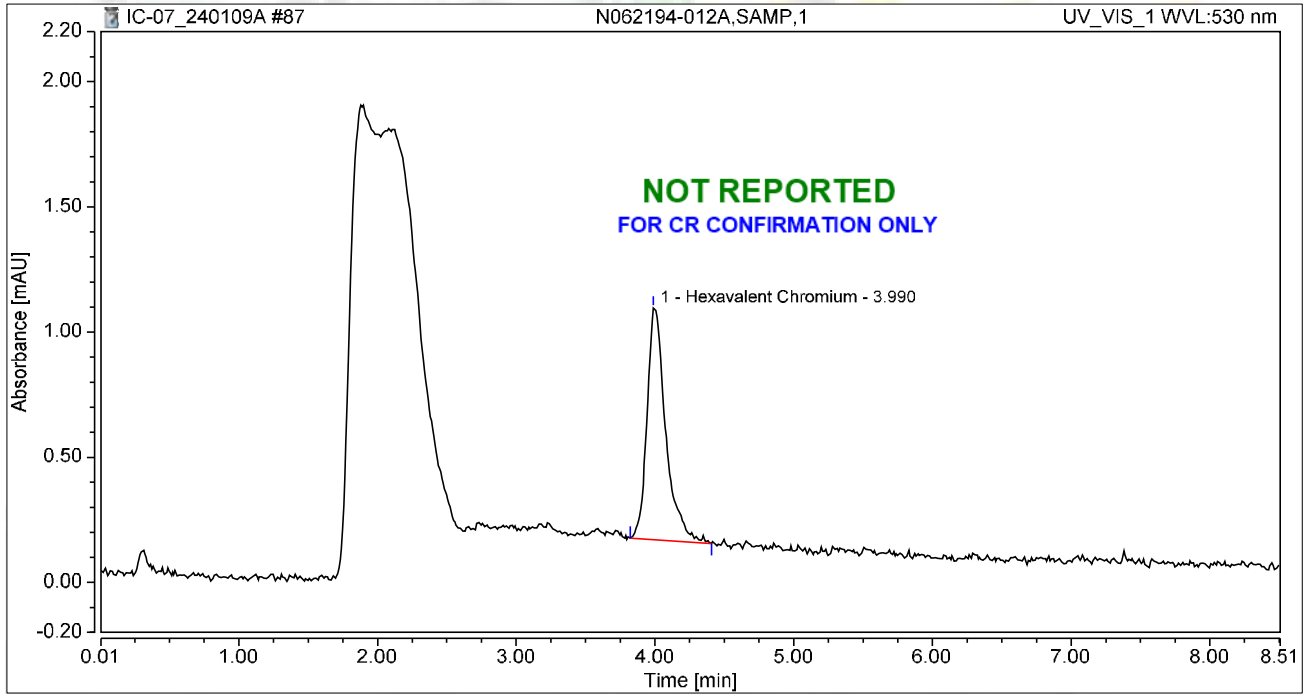
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.196	1.297	100.00	100.00	0.9406
Total:			0.196	1.297	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 01:12	Sample Weight:	1.0000

Chromatogram



Integration Results

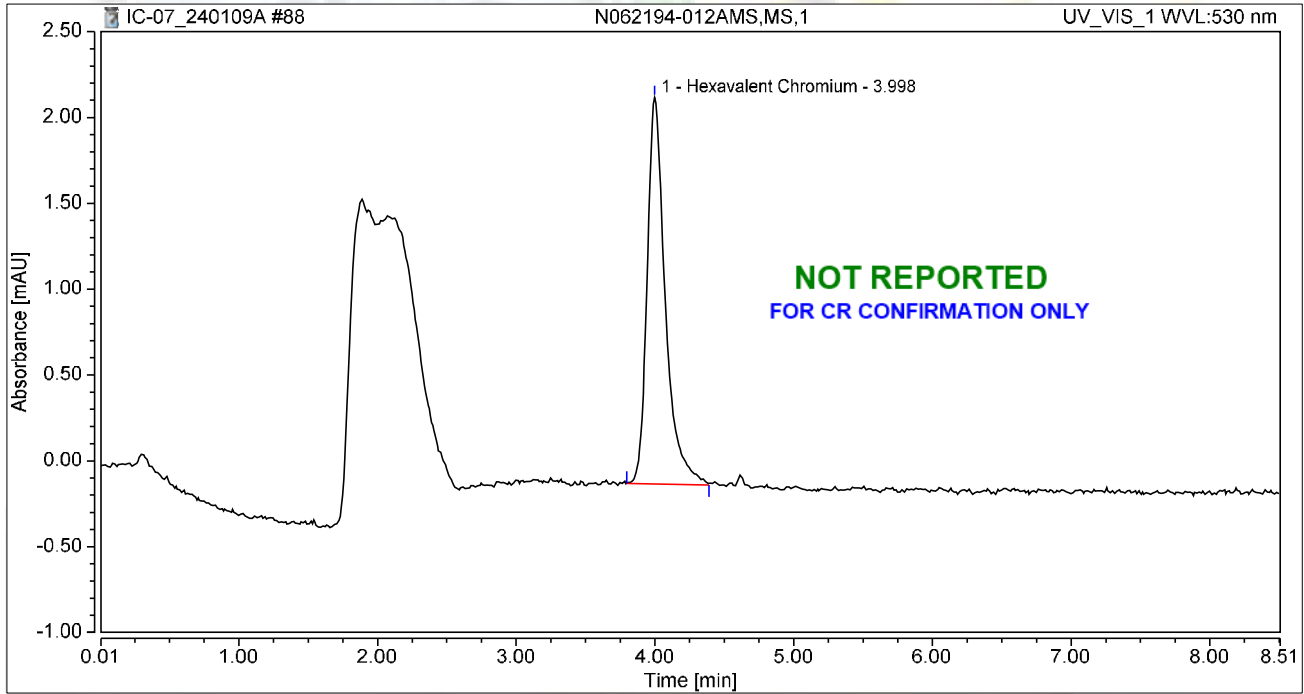
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.144	0.925	100.00	100.00	0.6940
Total:			0.144	0.925	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062194-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Jan/24 01:21	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.341	2.250	100.00	100.00	1.6379
Total:			0.341	2.250	100.00	100.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691


"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 10:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/11/24 10:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/11/24 11:03 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/11/24 11:13 AM	Reported
13	MB-R180321	MBLK	1	Hexavalent Chromium	01/11/24 11:22 AM	Reported
14	LCS-R180321	LCS	1	Hexavalent Chromium	01/11/24 11:32 AM	Reported
15	N062314-003B	SAMP	1	Hexavalent Chromium	01/11/24 11:58 AM	Reported
16	N062314-003BREP	DUP	1	Hexavalent Chromium	01/11/24 12:11 PM	Reported
17	N062314-003BMS	MS	1	Hexavalent Chromium	01/11/24 12:21 PM	Reported
18	N062238-001A	SAMP	1	Hexavalent Chromium	01/11/24 12:50 PM	Reported
19	N062238-001AMS	MS	1	Hexavalent Chromium	01/11/24 1:03 PM	Reported
20	N062238-002A	SAMP	1	Hexavalent Chromium	01/11/24 1:13 PM	Reported
21	N062238-002AMS	MS	1	Hexavalent Chromium	01/11/24 1:22 PM	Reported
22	N062238-003A	SAMP	1	Hexavalent Chromium	01/11/24 1:31 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/11/24 1:41 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/11/24 1:50 PM	Reported
25	N062238-003AMS	MS	1	Hexavalent Chromium	01/11/24 2:00 PM	Reported
26	N062241-008A	SAMP	5	Hexavalent Chromium	01/11/24 2:09 PM	Reported
27	N062241-008AMS	MS	5	Hexavalent Chromium	01/11/24 2:21 PM	Reported
28	N062279-021A	SAMP	1	Hexavalent Chromium	01/11/24 2:33 PM	Reported
29	N062279-022A	SAMP	1	Hexavalent Chromium	01/11/24 2:42 PM	Reported
30	N062279-023A	SAMP	1	Hexavalent Chromium	01/11/24 2:52 PM	Reported
31	N062272-006A	SAMP	20	Hexavalent Chromium	01/11/24 3:01 PM	Not Reported
32	N062272-006AMS	MS	20	Hexavalent Chromium	01/11/24 3:10 PM	Not Reported
33	N062272-006AMSD	MSD	20	Hexavalent Chromium	01/11/24 3:20 PM	Not Reported
34	N062272-006ADUP	DUP	20	Hexavalent Chromium	01/11/24 3:29 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/11/24 3:39 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/11/24 3:48 PM	Reported
37	N062272-009A	SAMP	20	Hexavalent Chromium	01/11/24 3:58 PM	Reported
38	N062272-009AMS	MS	20	Hexavalent Chromium	01/11/24 4:07 PM	Reported
39	N062272-010A	SAMP	20	Hexavalent Chromium	01/11/24 4:17 PM	Reported
40	N062272-010AMS	MS	20	Hexavalent Chromium	01/11/24 4:26 PM	Reported
41	N062272-011A	SAMP	10	Hexavalent Chromium	01/11/24 4:36 PM	Reported
42	N062272-011AMS	MS	10	Hexavalent Chromium	01/11/24 4:45 PM	Reported

Reviewed by:

 1/16/2024

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-001A	SAMP	1	Hexavalent Chromium	01/11/24 4:54 PM	Reported
44	N062272-001AMS	MS	1	Hexavalent Chromium	01/11/24 5:04 PM	Reported
45	N062272-002A	SAMP	1	Hexavalent Chromium	01/11/24 5:13 PM	Reported
46	N062272-002AMS	MS	1	Hexavalent Chromium	01/11/24 5:23 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/11/24 5:32 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/11/24 5:42 PM	Reported
49	N062272-009ADUP	DUP	20	Hexavalent Chromium	01/11/24 5:51 PM	Reported
50	N062272-009AMSD	MSD	20	Hexavalent Chromium	01/11/24 6:01 PM	Not Reported
51	N062272-004A	SAMP	1	Hexavalent Chromium	01/11/24 6:10 PM	Not Reported
52	N062272-004AMS	MS	1	Hexavalent Chromium	01/11/24 6:20 PM	Not Reported
53	N062272-005A	SAMP	1	Hexavalent Chromium	01/11/24 6:29 PM	Not Reported
54	N062272-005AMS	MS	1	Hexavalent Chromium	01/11/24 6:39 PM	Not Reported
55	N062272-007A	SAMP	1	Hexavalent Chromium	01/11/24 6:48 PM	Reported
56	N062272-007AMS	MS	1	Hexavalent Chromium	01/11/24 7:10 PM	Reported
57	N062272-008A	SAMP	1	Hexavalent Chromium	01/11/24 7:21 PM	Reported
58	N062272-008AMS	MS	1	Hexavalent Chromium	01/11/24 7:31 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/11/24 7:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/11/24 7:50 PM	Reported
61	N062272-012A	SAMP	1	Hexavalent Chromium	01/11/24 7:59 PM	Reported
62	N062272-012AMS	MS	1	Hexavalent Chromium	01/11/24 8:09 PM	Reported
63	N062272-001A	SAMP	5	Hexavalent Chromium	01/11/24 8:18 PM	Not Reported
64	N062272-001AMS	MS	5	Hexavalent Chromium	01/11/24 8:28 PM	Not Reported
65	N062272-003A	SAMP	1	Hexavalent Chromium	01/11/24 8:37 PM	Reported
66	N062272-003AMS	MS	1	Hexavalent Chromium	01/11/24 8:47 PM	Reported
67	N062272-006A	SAMP	5	Hexavalent Chromium	01/11/24 8:56 PM	Reported
68	N062272-006AMS	MS	5	Hexavalent Chromium	01/11/24 9:05 PM	Reported
69	N062272-011A	SAMP	1	Hexavalent Chromium	01/11/24 9:15 PM	Reported
70	N062272-011AMS	MS	1	Hexavalent Chromium	01/11/24 9:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 9:34 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 9:43 PM	Reported
73	N062272-011A	SAMP	5	Hexavalent Chromium	01/11/24 9:53 PM	Not Reported
74	N062272-011AMS	MS	5	Hexavalent Chromium	01/11/24 10:02 PM	Not Reported
75	MB-R180322	MBLK	1	Hexavalent Chromium	01/11/24 10:12 PM	Reported
76	LCS-R180322	LCS	1	Hexavalent Chromium	01/11/24 10:21 PM	Reported
77	N062307-001A	SAMP	1	Hexavalent Chromium	01/11/24 10:31 PM	Reported
78	N062307-001ADUP	DUP	1	Hexavalent Chromium	01/11/24 10:40 PM	Reported
79	N062307-001AMS	MS	1	Hexavalent Chromium	01/11/24 10:49 PM	Reported
80	N062307-001AMSD	MSD	1	Hexavalent Chromium	01/11/24 10:59 PM	Reported
81	N062308-001A	SAMP	1	Hexavalent Chromium	01/11/24 11:08 PM	Reported
82	N062308-002A	SAMP	1	Hexavalent Chromium	01/11/24 11:18 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 11:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 11:37 PM	Reported

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062309-007A	SAMP	1	Hexavalent Chromium	01/11/24 11:46 PM	Reported
86	N062309-007AMS	MS	1	Hexavalent Chromium	01/11/24 11:56 PM	Reported
87	N062309-007AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:05 AM	Reported
88	N062309-008A	SAMP	1	Hexavalent Chromium	01/12/24 12:15 AM	Reported
89	N062309-008AMS	MS	1	Hexavalent Chromium	01/12/24 12:24 AM	Reported
90	N062309-008AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:33 AM	Reported
91	N062309-001A	SAMP	50	Hexavalent Chromium	01/12/24 12:43 AM	Not Reported
92	N062309-002A	SAMP	1	Hexavalent Chromium	01/12/24 12:52 AM	Reported
93	N062309-003A	SAMP	5	Hexavalent Chromium	01/12/24 1:02 AM	Reported
94	N062309-004A	SAMP	1	Hexavalent Chromium	01/12/24 1:11 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/12/24 1:21 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/12/24 1:30 AM	Reported
97	N062309-005A	SAMP	5	Hexavalent Chromium	01/12/24 1:40 AM	Reported
98	N062309-006A	SAMP	1	Hexavalent Chromium	01/12/24 1:49 AM	Reported
99	N062309-009A	SAMP	1	Hexavalent Chromium	01/12/24 1:59 AM	Reported
100	N062309-010A	SAMP	1	Hexavalent Chromium	01/12/24 2:08 AM	Reported
101	N062272-004AMS	MS	1	Hexavalent Chromium	01/12/24 2:18 AM	Not Reported
102	CCV-9	CCV	1	Hexavalent Chromium	01/12/24 2:27 AM	Reported
103	CCB-9	CCB	1	Hexavalent Chromium	01/12/24 2:36 AM	Reported
104	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 2:46 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240111A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Jan/24 03:16:42
No. of Injections:	107	Updated By:	ics 5000

Injection Details

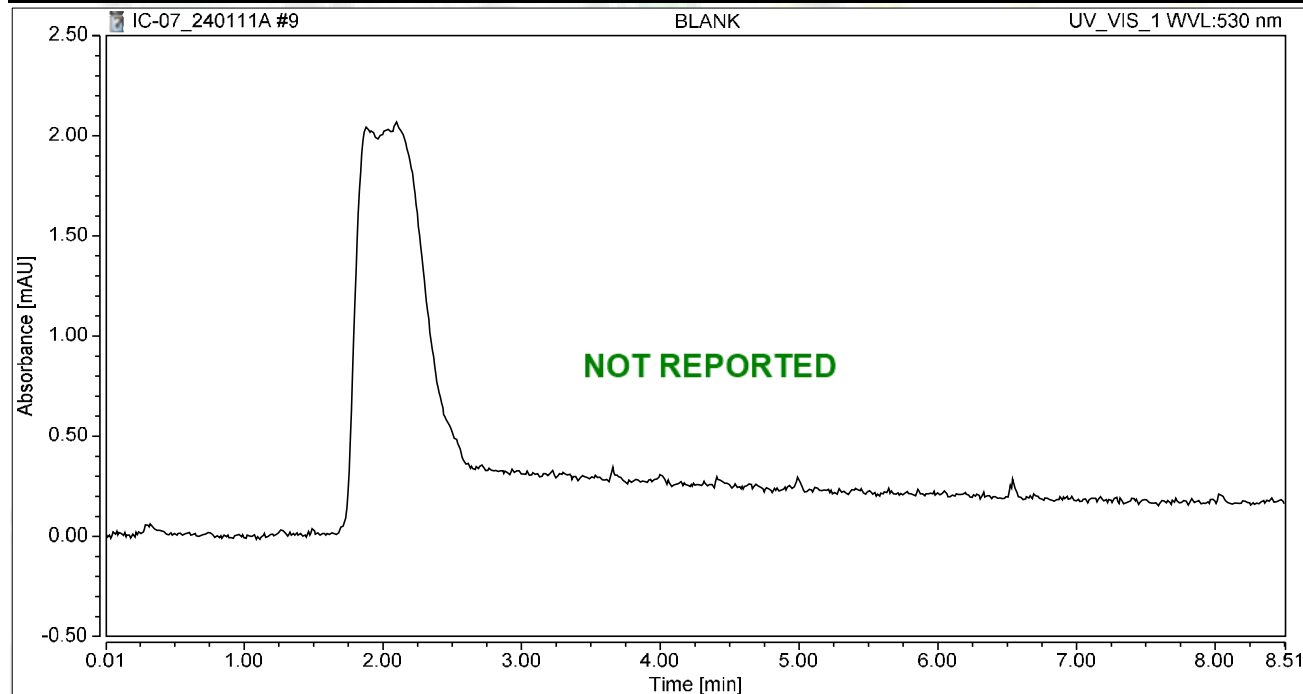
No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/11/2024 10:43	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/11/2024 10:54	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/11/2024 11:03	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/11/2024 11:13	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/11/2024 11:22	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/11/2024 11:32	Finished	LCS @5ppb, IWST-231228B
15	N062314-003B,SAMP	1	1000	Unknown		01/11/2024 11:58	Finished	SAMP,10 mL
16	N062314-003BREP,D	2	1000	Unknown		01/11/2024 12:11	Finished	REP,10 mL
17	N062314-003BMS,M	3	1000	Unknown		01/11/2024 12:21	Finished	MS (1ppb), IWST-231228B,10r
18	N062238-001A,SAMP	1	1000	Unknown		01/11/2024 12:50	Finished	SAMP,10 mL
19	N062238-001AMS,M	2	1000	Unknown		01/11/2024 13:03	Finished	MS (1ppb), IWST-231228B,10r
20	N062238-002A,SAMP	3	1000	Unknown		01/11/2024 13:13	Finished	SAMP,10 mL
21	N062238-002AMS,M	4	1000	Unknown		01/11/2024 13:22	Finished	MS (1ppb), IWST-231228B,10r
22	N062238-003A,SAMP	5	1000	Unknown		01/11/2024 13:31	Finished	SAMP,10 mL
23	CCV-2,CCV1,1,	6	1000	Unknown		01/11/2024 13:41	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	7	1000	Unknown		01/11/2024 13:50	Finished	CCB R231030A
25	N062238-003AMS,M	8	1000	Unknown		01/11/2024 14:00	Finished	MS (1ppb), IWST-231228B,10r
26	N062241-008A,SAMP	9	1000	Unknown		01/11/2024 14:09	Finished	SAMP,2>10 mL
27	N062241-008AMS,M	1	1000	Unknown		01/11/2024 14:21	Finished	MS (1ppb), IWST-231228B,2>1
28	N062279-021A,SAMP	2	1000	Unknown		01/11/2024 14:33	Finished	SAMP,10 mL
29	N062279-022A,SAMP	3	1000	Unknown		01/11/2024 14:42	Finished	SAMP,10 mL
30	N062279-023A,SAMP	4	1000	Unknown		01/11/2024 14:52	Finished	SAMP,10 mL
31	N062272-006A,SAMP	5	1000	Unknown		01/11/2024 15:01	Finished	SAMP,0.5>10 mL
32	N062272-006AMS,M	6	1000	Unknown		01/11/2024 15:10	Finished	MS (5ppb), IWST-231228B,0.5
33	N062272-006AMSD,M	7	1000	Unknown		01/11/2024 15:20	Finished	MSD (5ppb), IWST-231228B,0
34	N062272-006ADUP,D	8	1000	Unknown		01/11/2024 15:29	Finished	DUP,0.5>10 mL
35	CCV-3,CCV,1,	9	1000	Unknown		01/11/2024 15:39	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	10	1000	Unknown		01/11/2024 15:48	Finished	CCB R231030A
37	N062272-009A,SAMP	11	1000	Unknown		01/11/2024 15:58	Finished	SAMP,0.5>10 mL
38	N062272-009AMS,M	12	1000	Unknown		01/11/2024 16:07	Finished	MS (5ppb), IWST-231228B,0.5
39	N062272-010A,SAMP	13	1000	Unknown		01/11/2024 16:17	Finished	SAMP,0.5>10 mL
40	N062272-010AMS,M	14	1000	Unknown		01/11/2024 16:26	Finished	MS (5ppb), IWST-231228B,0.5
41	N062272-011A,SAMP	15	1000	Unknown		01/11/2024 16:36	Finished	SAMP,1>10 mL
42	N062272-011AMS,M	16	1000	Unknown		01/11/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062272-001A,SAMP	17	1000	Unknown		01/11/2024 16:54	Finished	SAMP,10 mL
44	N062272-001AMS,M	18	1000	Unknown		01/11/2024 17:04	Finished	MS (1ppb), IWST-231228B,10r
45	N062272-002A,SAMP	19	1000	Unknown		01/11/2024 17:13	Finished	SAMP,10 mL
46	N062272-002AMS,M	20	1000	Unknown		01/11/2024 17:23	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	21	1000	Unknown		01/11/2024 17:32	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	22	1000	Unknown		01/11/2024 17:42	Finished	CCB R231030A
49	N062272-009ADUP,D	23	1000	Unknown		01/11/2024 17:51	Finished	DUP,0.5>10 mL
50	N062272-009AMS,M	24	1000	Unknown		01/11/2024 18:01	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-004A,SAMP	25	1000	Unknown		01/11/2024 18:10	Finished	SAMP,10 mL
52	N062272-004AMS,M	26	1000	Unknown		01/11/2024 18:20	Finished	MS (1ppb), IWST-231228B,10r
53	N062272-005A,SAMP	27	1000	Unknown		01/11/2024 18:29	Finished	SAMP,10 mL
54	N062272-005AMS,M	28	1000	Unknown		01/11/2024 18:39	Finished	MS (1ppb), IWST-231228B,10r
55	N062272-007A,SAMP	29	1000	Unknown		01/11/2024 18:48	Finished	SAMP,10 mL
56	N062272-007AMS,M	1	1000	Unknown		01/11/2024 19:10	Finished	MS (1ppb), IWST-231228B,10r
57	N062272-008A,SAMP	2	1000	Unknown		01/11/2024 19:21	Finished	SAMP,10 mL
58	N062272-008AMS,M	3	1000	Unknown		01/11/2024 19:31	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	4	1000	Unknown		01/11/2024 19:40	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	5	1000	Unknown		01/11/2024 19:50	Finished	CCB R231227C

61	N062272-012A,SAMP	6	1000	Unknown	01/11/2024 19:59	Finished	SAMP,10 mL
62	N062272-012AMS,MS	7	1000	Unknown	01/11/2024 20:09	Finished	MS (1ppb), IWST-231228B,10r
63	N062272-001A,SAMP	8	1000	Unknown	01/11/2024 20:18	Finished	SAMP,2>10 mL
64	N062272-001AMS,MS	9	1000	Unknown	01/11/2024 20:28	Finished	MS (1ppb), IWST-231228B,2>1
65	N062272-003A,SAMP	10	1000	Unknown	01/11/2024 20:37	Finished	SAMP,10 mL
66	N062272-003AMS,MS	11	1000	Unknown	01/11/2024 20:47	Finished	MS (1ppb), IWST-231228B,10r
67	N062272-006A,SAMP	12	1000	Unknown	01/11/2024 20:56	Finished	SAMP,2>10 mL
68	N062272-006AMS,MS	13	1000	Unknown	01/11/2024 21:05	Finished	MS (5ppb), IWST-231228B,2>
69	N062272-011A,SAMP	14	1000	Unknown	01/11/2024 21:15	Finished	SAMP,10 mL
70	N062272-011AMS,MS	15	1000	Unknown	01/11/2024 21:24	Finished	MS (5ppb), IWST-231228B,10r
71	CCV-6.CCV1,1,	16	1000	Unknown	01/11/2024 21:34	Finished	CCV @10ppb, IWST-231228A
72	CCB-6.CCB,1,	17	1000	Unknown	01/11/2024 21:43	Finished	CCB R231227C
73	N062272-011A,SAMP	18	1000	Unknown	01/11/2024 21:53	Finished	SAMP,2>10 mL
74	N062272-011AMS,MS	19	1000	Unknown	01/11/2024 22:02	Finished	MS (1ppb), IWST-231228B,2>1
75	MB-2.MBLK,1,	20	1000	Unknown	01/11/2024 22:12	Finished	MB R231227C
76	LCS-2.LCS,1,	21	1000	Unknown	01/11/2024 22:21	Finished	LCS @5ppb, IWST-231228B
77	N062307-001A,SAMP	22	1000	Unknown	01/11/2024 22:31	Finished	SAMP,10 mL
78	N062307-001ADUP,C	23	1000	Unknown	01/11/2024 22:40	Finished	DUP,10 mL
79	N062307-001AMS,MS	24	1000	Unknown	01/11/2024 22:49	Finished	MS (1ppb), IWST-231228B,10r
80	N062307-001AMSD,N	25	1000	Unknown	01/11/2024 22:59	Finished	MSD (1ppb), IWST-231228B,10
81	N062308-001A,SAMP	26	1000	Unknown	01/11/2024 23:08	Finished	SAMP,10 mL
82	N062308-002A,SAMP	27	1000	Unknown	01/11/2024 23:18	Finished	SAMP,10 mL
83	CCV-7.CCV,1,	28	1000	Unknown	01/11/2024 23:27	Finished	CCV @5ppb, IWST-231228A
84	CCB-7.CCB,1,	29	1000	Unknown	01/11/2024 23:37	Finished	CCB R231227C
85	N062309-007A,SAMP	30	1000	Unknown	01/11/2024 23:46	Finished	SAMP,10 mL
86	N062309-007AMS,MS	31	1000	Unknown	01/11/2024 23:56	Finished	MS (1ppb), IWST-231228B,10r
87	N062309-007AMSD,N	32	1000	Unknown	01/12/2024 00:05	Finished	MSD (1ppb), IWST-231228B,10
88	N062309-008A,SAMP	33	1000	Unknown	01/12/2024 00:15	Finished	SAMP,10 mL
89	N062309-008AMS,MS	34	1000	Unknown	01/12/2024 00:24	Finished	MS (1ppb), IWST-231228B,10r
90	N062309-008AMSD,N	35	1000	Unknown	01/12/2024 00:33	Finished	MSD (1ppb), IWST-231228B,10
91	N062309-001A,SAMP	36	1000	Unknown	01/12/2024 00:43	Finished	SAMP,0.2>10 mL
92	N062309-002A,SAMP	37	1000	Unknown	01/12/2024 00:52	Finished	SAMP,10 mL
93	N062309-003A,SAMP	38	1000	Unknown	01/12/2024 01:02	Finished	SAMP,2>10 mL
94	N062309-004A,SAMP	39	1000	Unknown	01/12/2024 01:11	Finished	SAMP,10 mL
95	CCV-8.CCV1,1,	40	1000	Unknown	01/12/2024 01:21	Finished	CCV @10ppb, IWST-231228A
96	CCB-8.CCB,1,	41	1000	Unknown	01/12/2024 01:30	Finished	CCB R231227C
97	N062309-005A,SAMP	42	1000	Unknown	01/12/2024 01:40	Finished	SAMP,2>10 mL
98	N062309-006A,SAMP	43	1000	Unknown	01/12/2024 01:49	Finished	SAMP,10 mL
99	N062309-009A,SAMP	44	1000	Unknown	01/12/2024 01:59	Finished	SAMP,10 mL
100	N062309-010A,SAMP	45	1000	Unknown	01/12/2024 02:08	Finished	SAMP,10 mL
101	N062272-004AMS,MS	46	1000	Unknown	01/12/2024 02:18	Finished	MS (5ppb), IWST-231228B,10r
102	CCV-9.CCV,1,	47	1000	Unknown	01/12/2024 02:27	Finished	CCV @5ppb, IWST-231228A
103	CCB-9.CCB,1,	48	1000	Unknown	01/12/2024 02:36	Finished	CCB R231227C
104	BLANK	49	1000	Unknown	01/12/2024 02:46	Finished	BLANK
105	SHUTDOWN	50	1000	Unknown	01/12/2024 02:55	Finished	
106	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
107	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details		
Injection Name:	BLANK	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 10:43	Sample Weight: 1.0000

Chromatogram



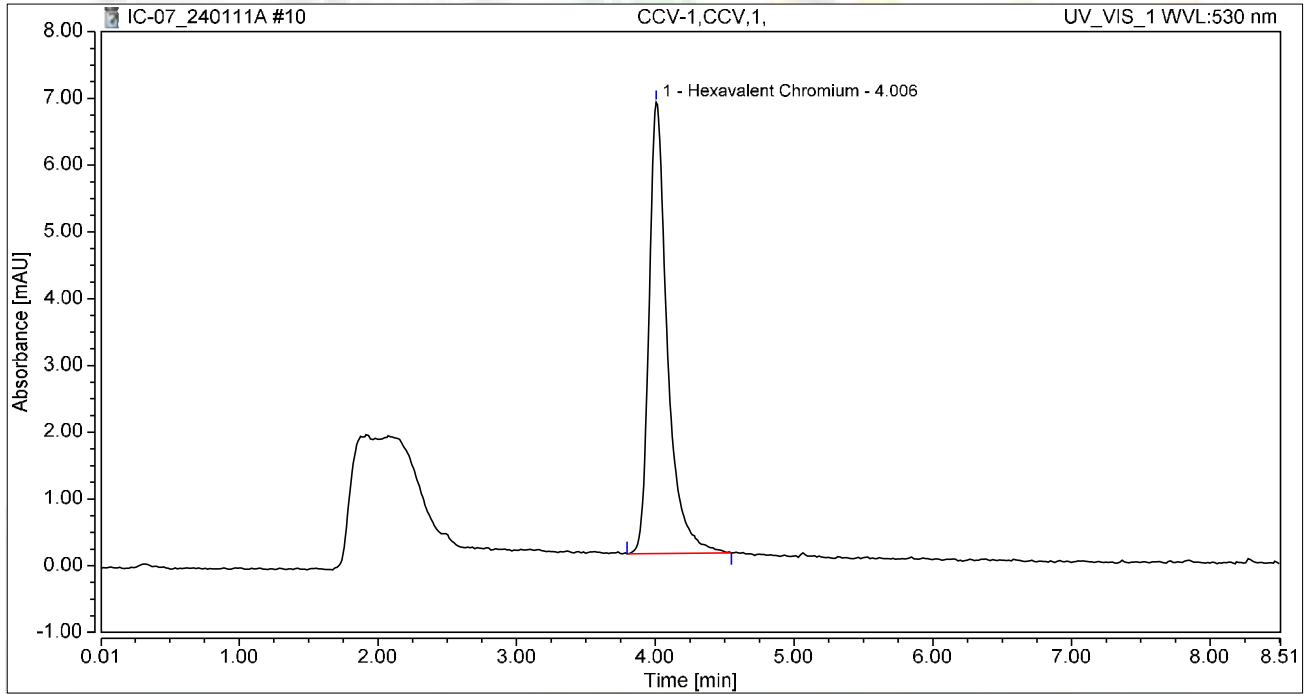
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 10:54	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.040	6.756	100.00	100.00	4.9981
Total:			1.040	6.756	100.00	100.00	

Reviewed by:

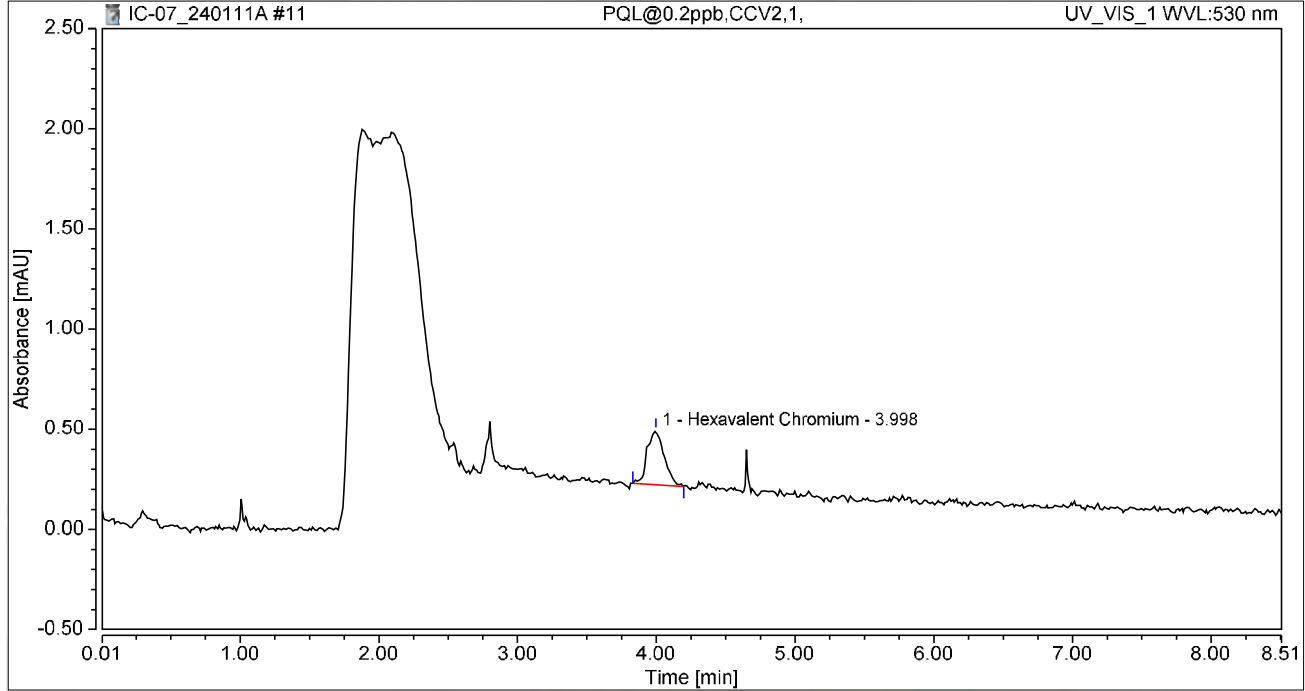
jrb

1/16/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 11:03	Sample Weight: 1.0000

Chromatogram



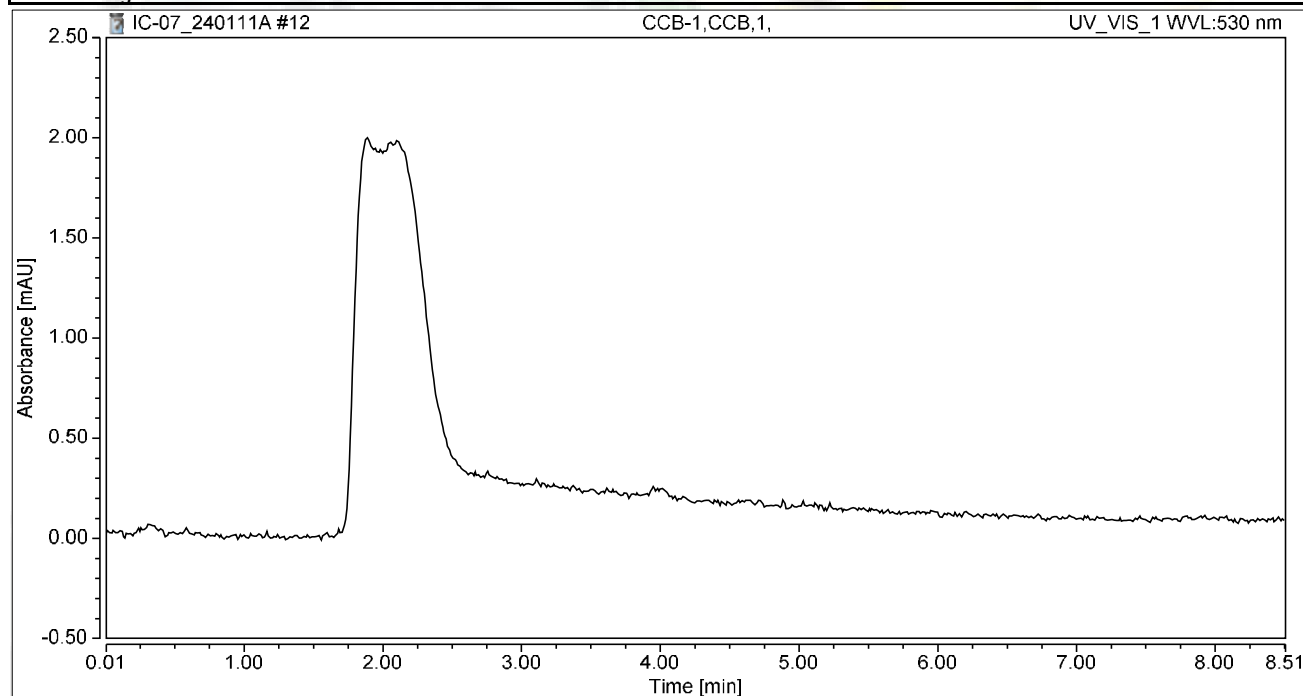
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.038	0.272	100.00	100.00	0.1837
Total:			0.038	0.272	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:13	Sample Weight:	1.0000

Chromatogram



Integration Results

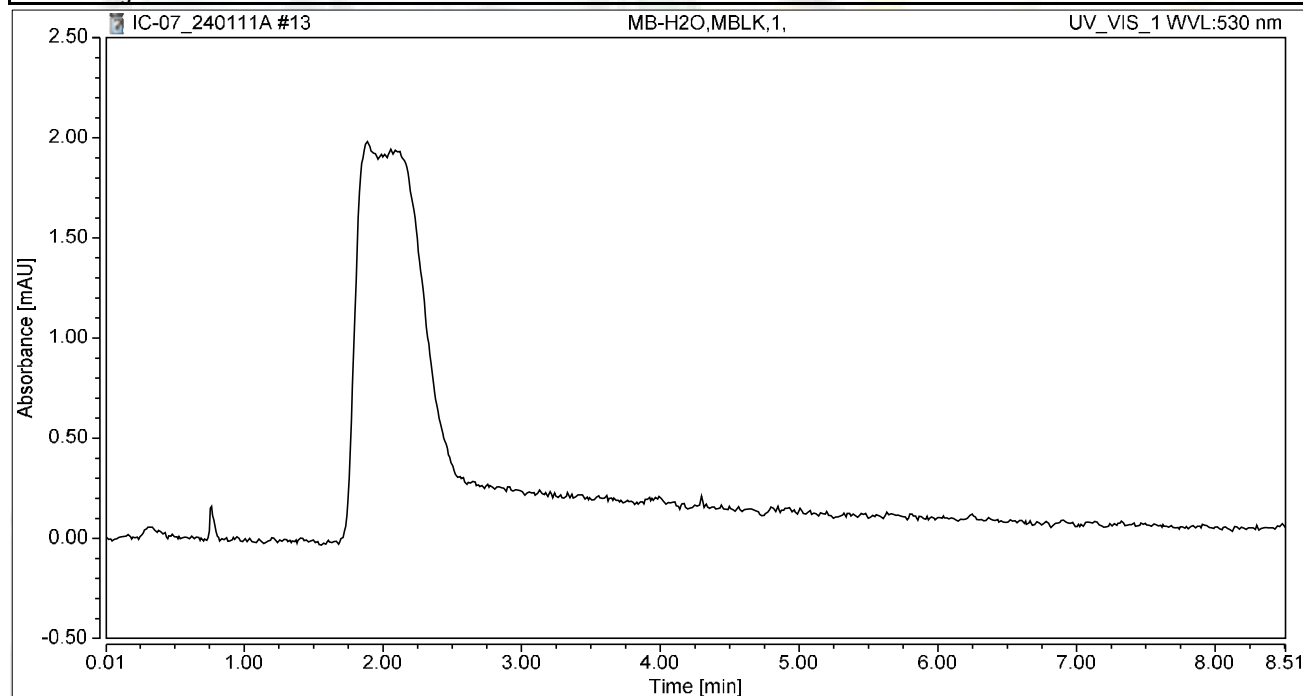
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:22	Sample Weight:	1.0000

Chromatogram



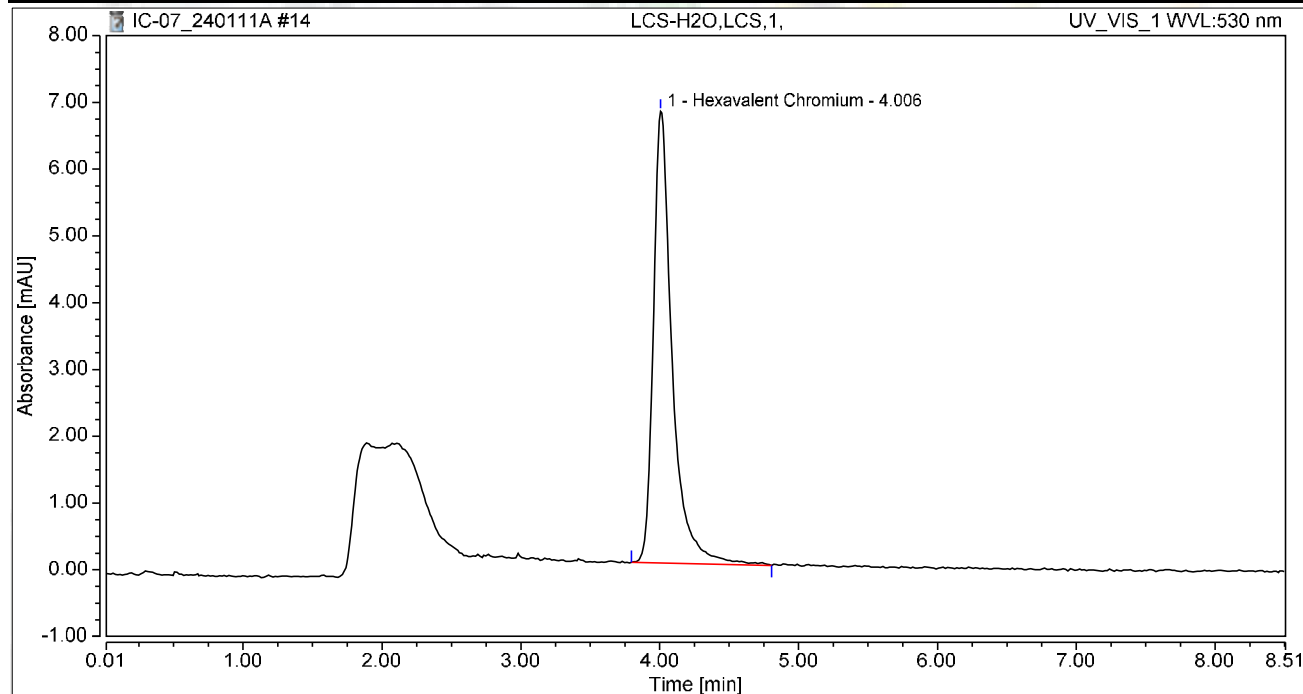
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	LCS-H2O,LCS,1,	Run Time (min): 8.49
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 11:32	Sample Weight: 1.0000

Chromatogram



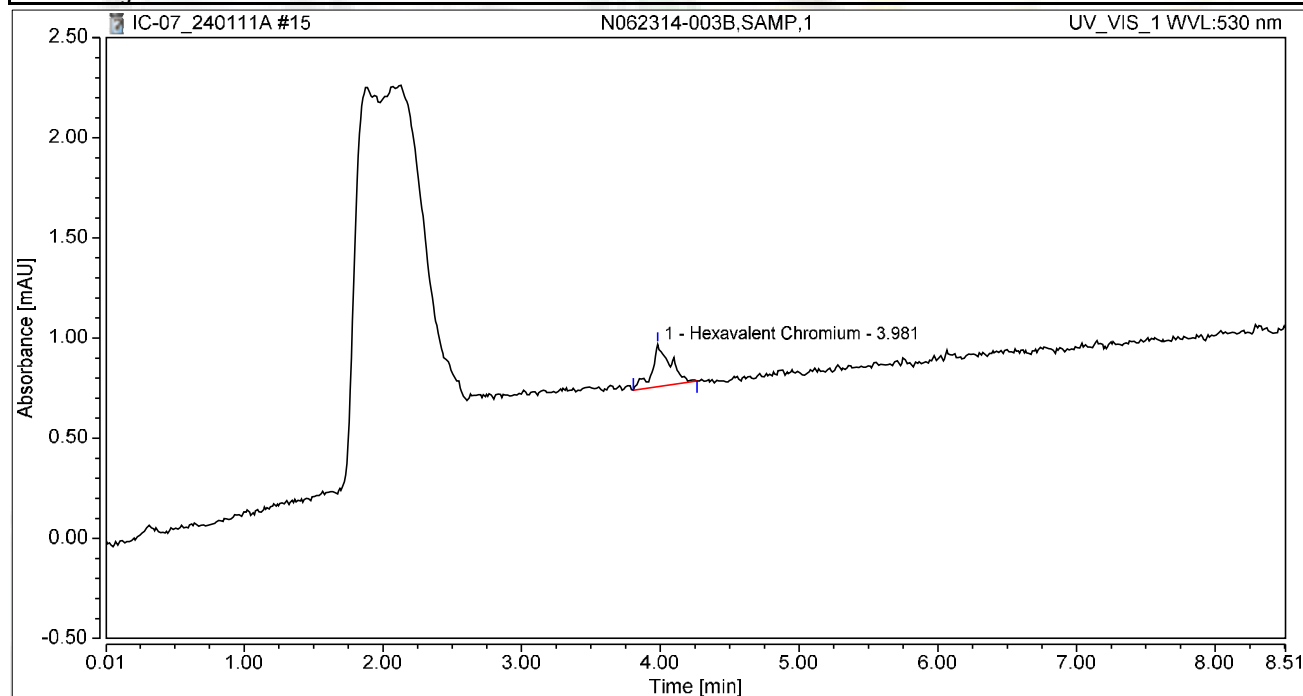
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.062	6.763	100.00	100.00	5.1030
Total:			1.062	6.763	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062314-003B,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:58	Sample Weight:	1.0000

Chromatogram



Integration Results

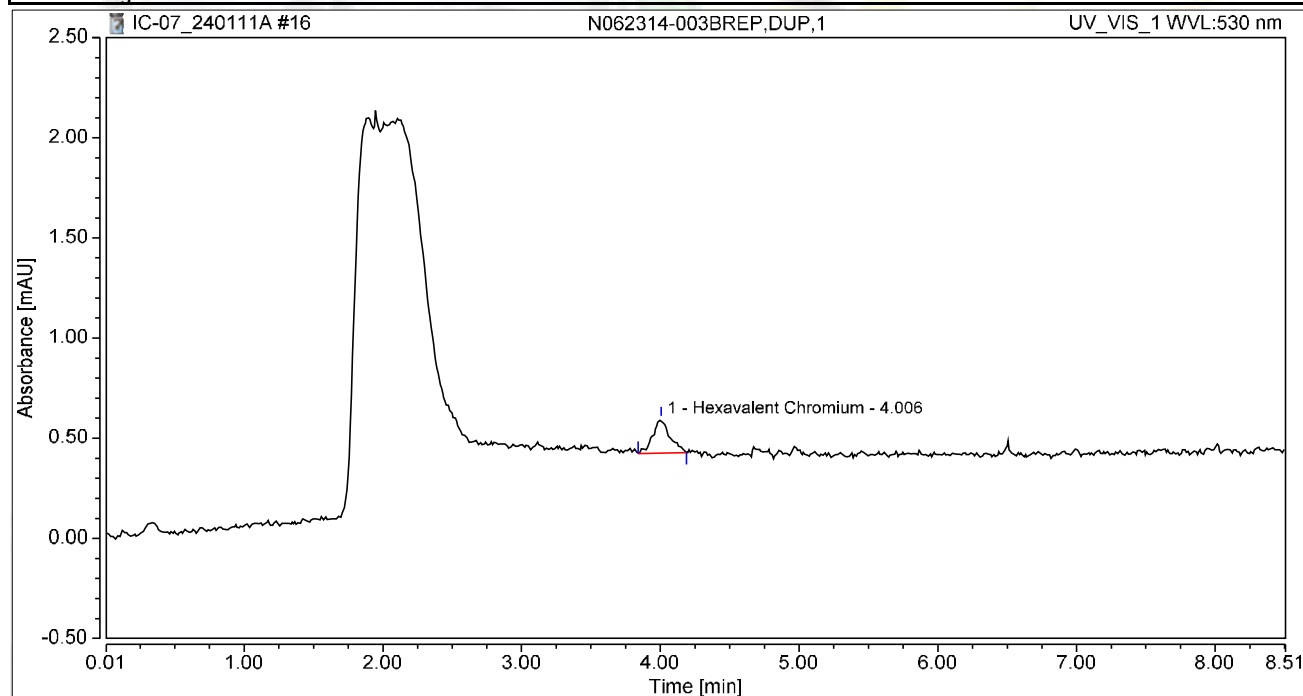
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.033	0.211	100.00	100.00	0.1563
Total:			0.033	0.211	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062314-003BREP,DUP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

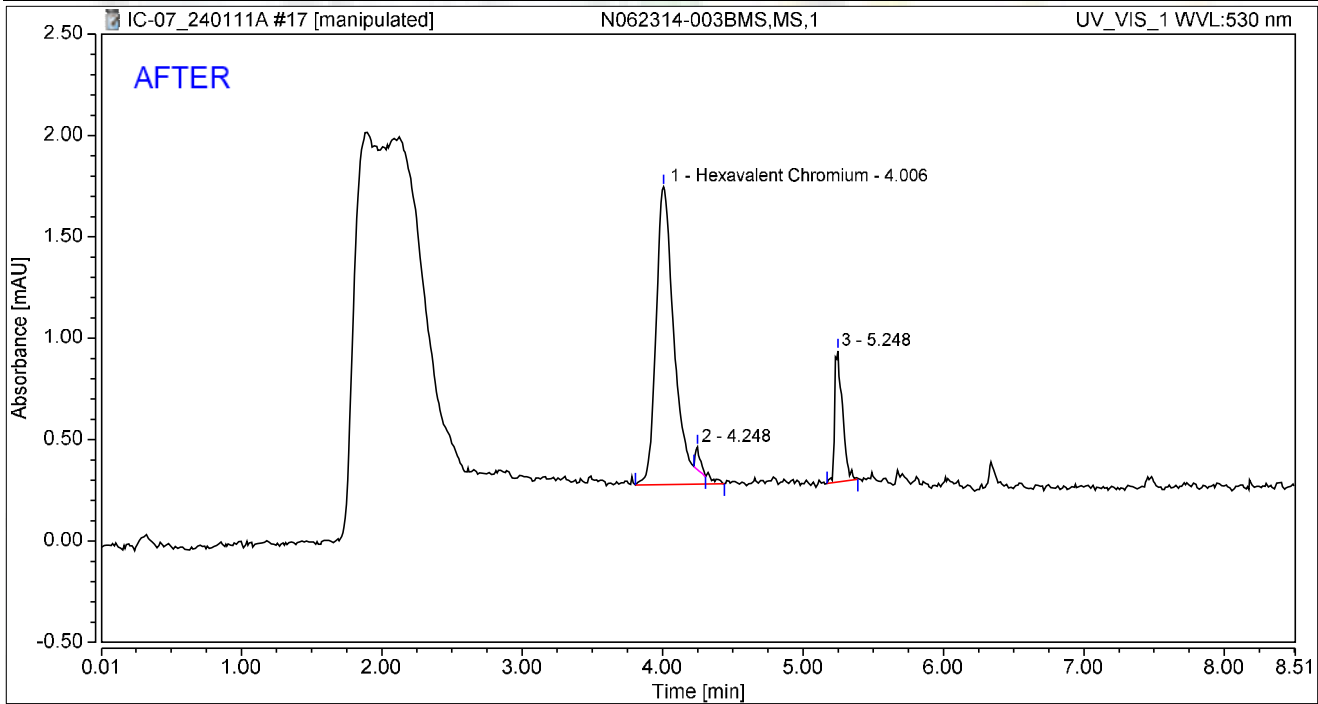
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.024	0.171	100.00	100.00	0.1172
Total:			0.024	0.171	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062314-003BMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:21	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.224	1.469	83.25	65.94	1.0756
2		4.248	0.005	0.112	1.68	5.02	n.a.
3		5.248	0.041	0.647	15.07	29.04	n.a.
Total:			0.269	2.228	100.00	100.00	

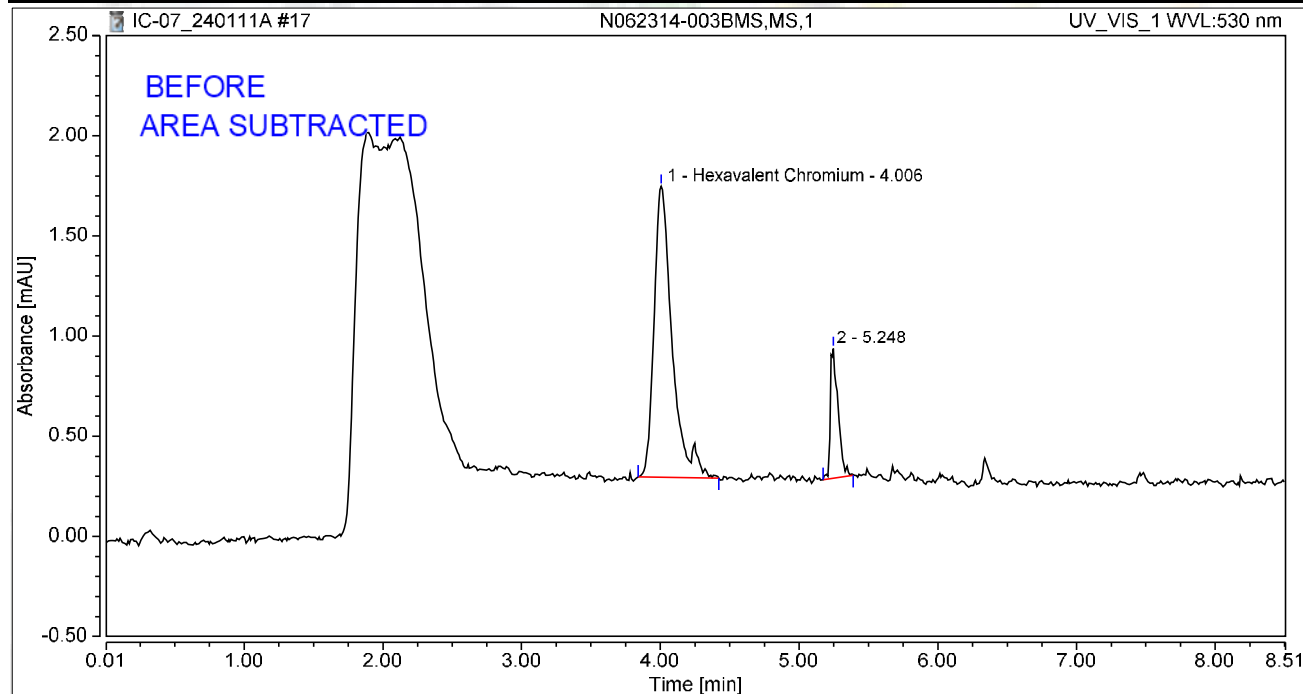
Reviewed by:

JRB 1/16/2024

Chromatogram and Results

Injection Details		
Injection Name:	N062314-003BMS,MS,1	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 12:21	Sample Weight: 1.0000

Chromatogram



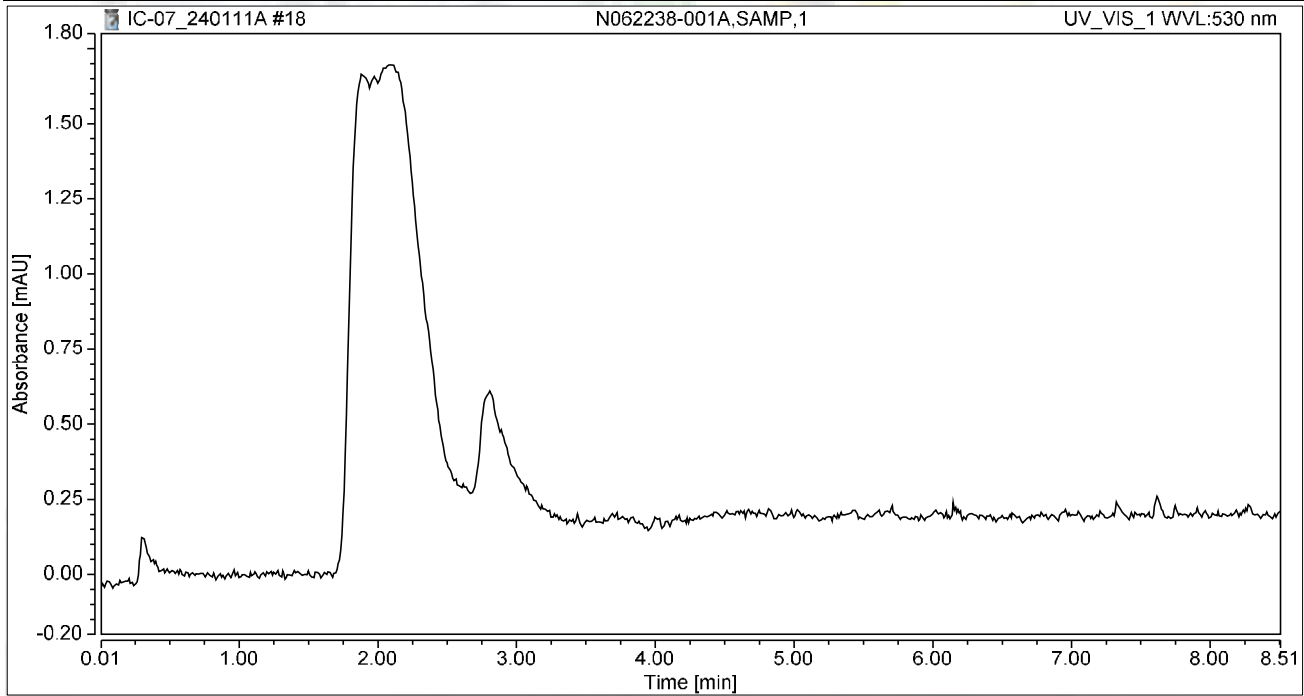
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.219	1.452	84.40	69.17	1.0537
2		5.248	0.041	0.647	15.60	30.83	n.a.
Total:			0.260	2.099	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:50	Sample Weight:	1.0000

Chromatogram



Integration Results

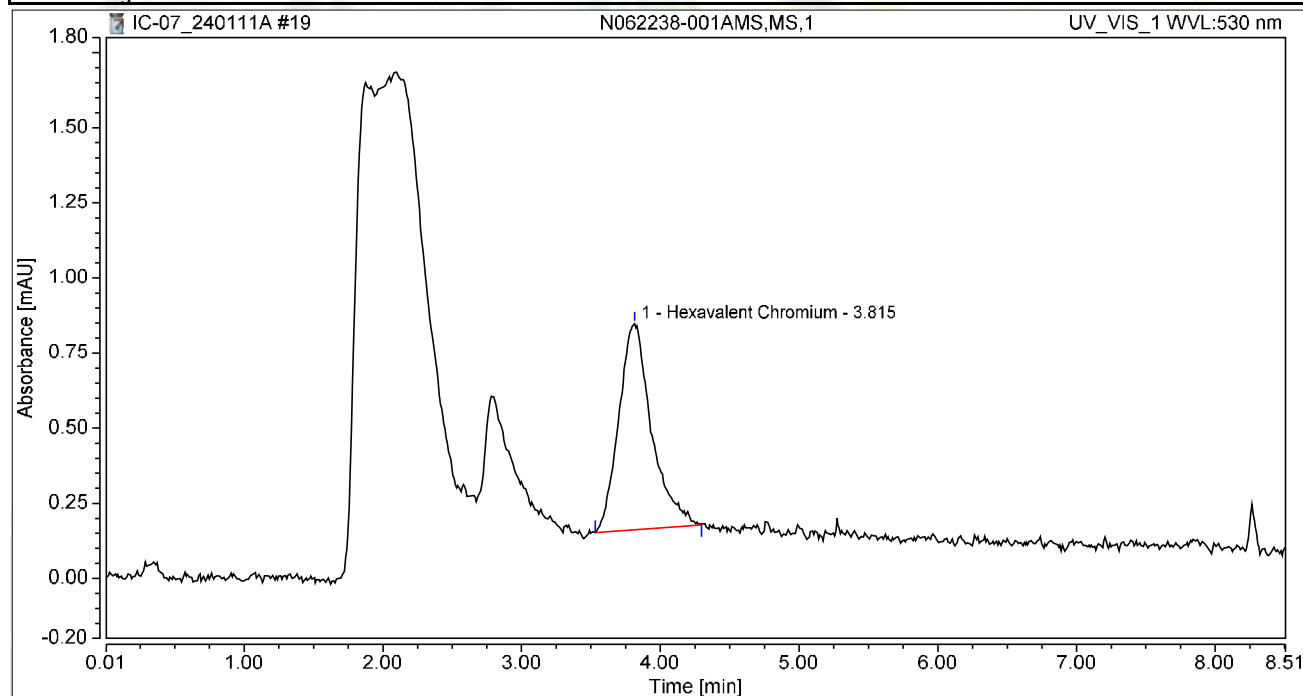
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:03	Sample Weight:	1.0000

Chromatogram



Integration Results

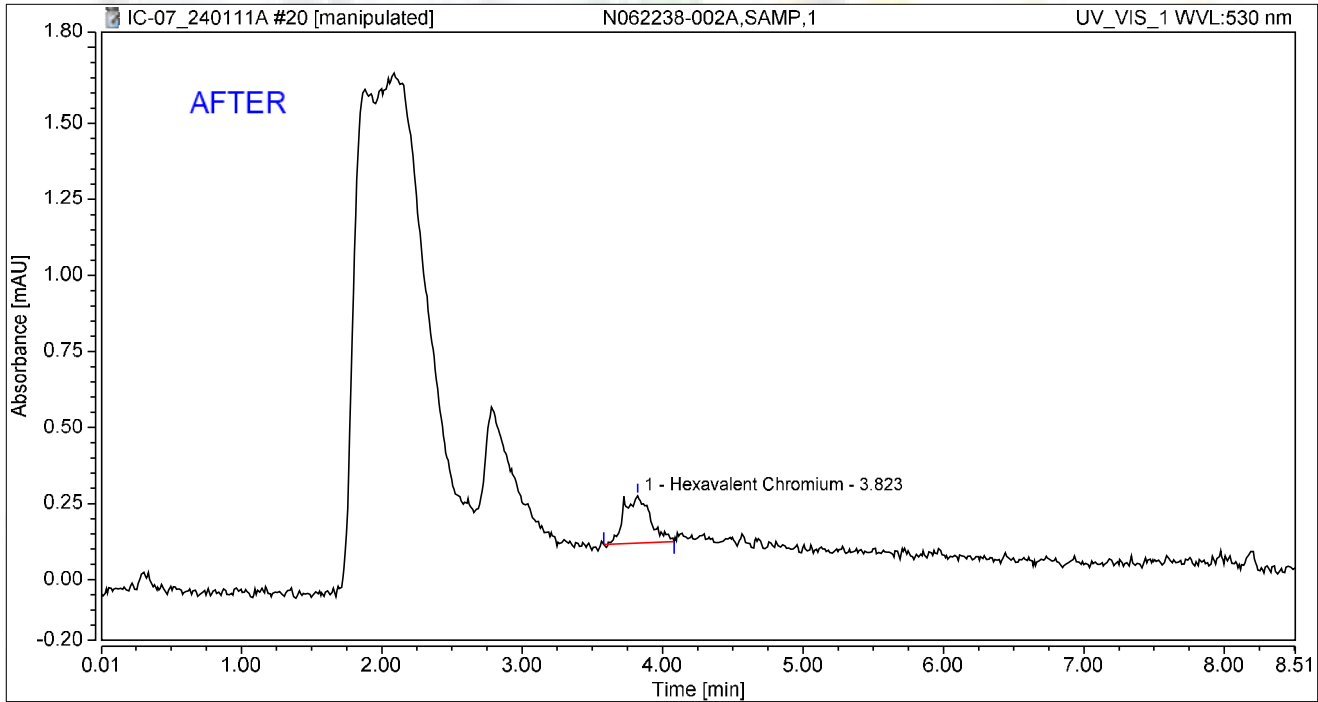
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.188	0.686	100.00	100.00	0.9030
Total:			0.188	0.686	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.033	0.156	100.00	100.00	0.1605
Total:			0.033	0.156	100.00	100.00	

Reviewed by:

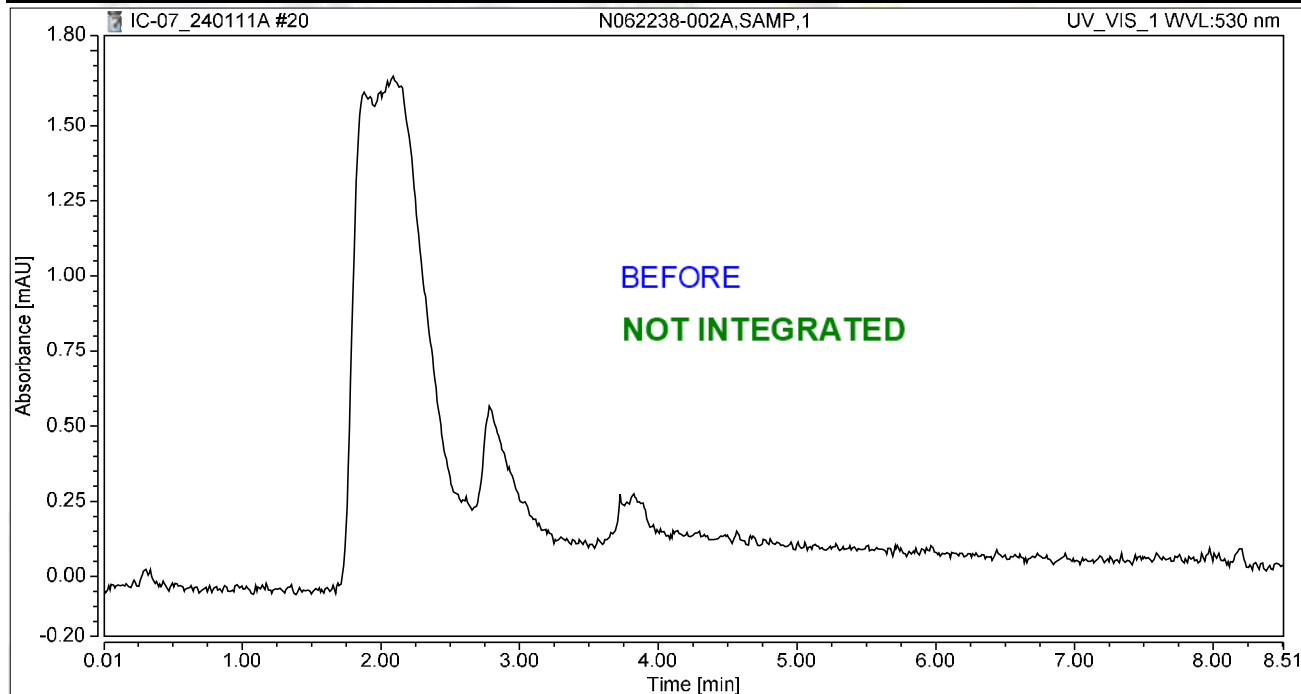
JRB 1/16/2024

Chromatogram and Results

Injection Details

Injection Name:	N062238-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:13	Sample Weight:	1.0000

Chromatogram



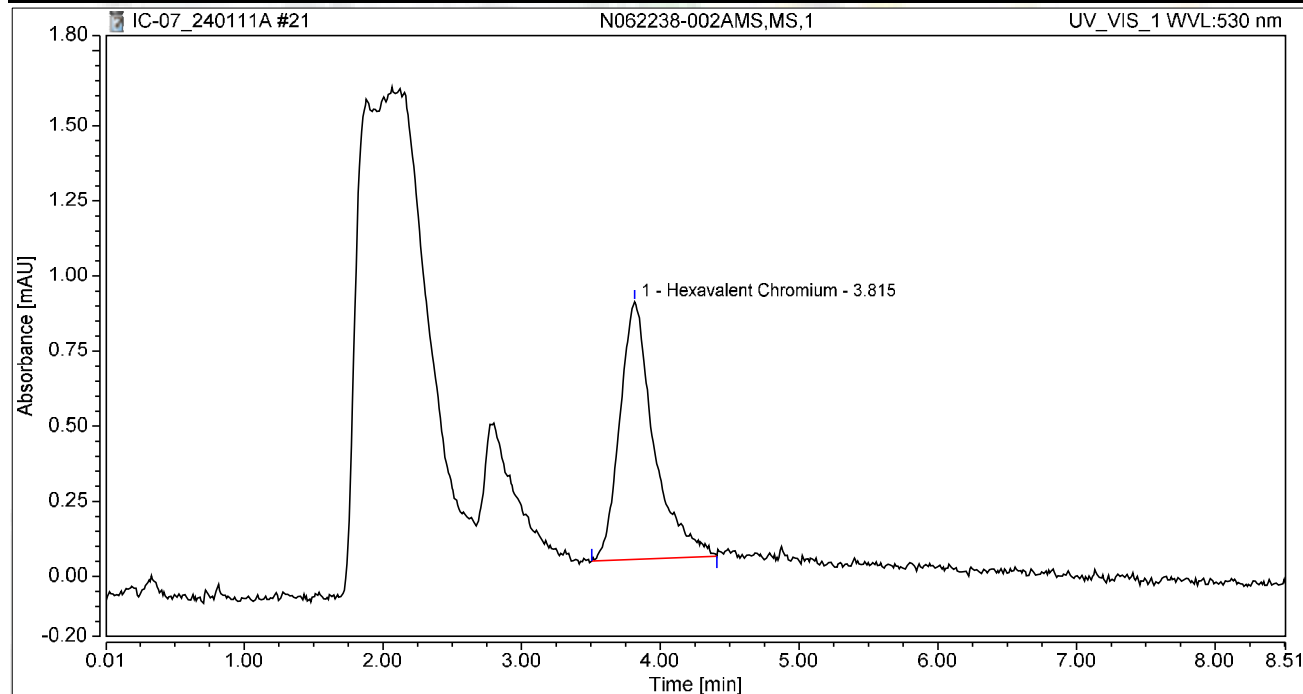
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062238-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:22	Sample Weight: 1.0000

Chromatogram



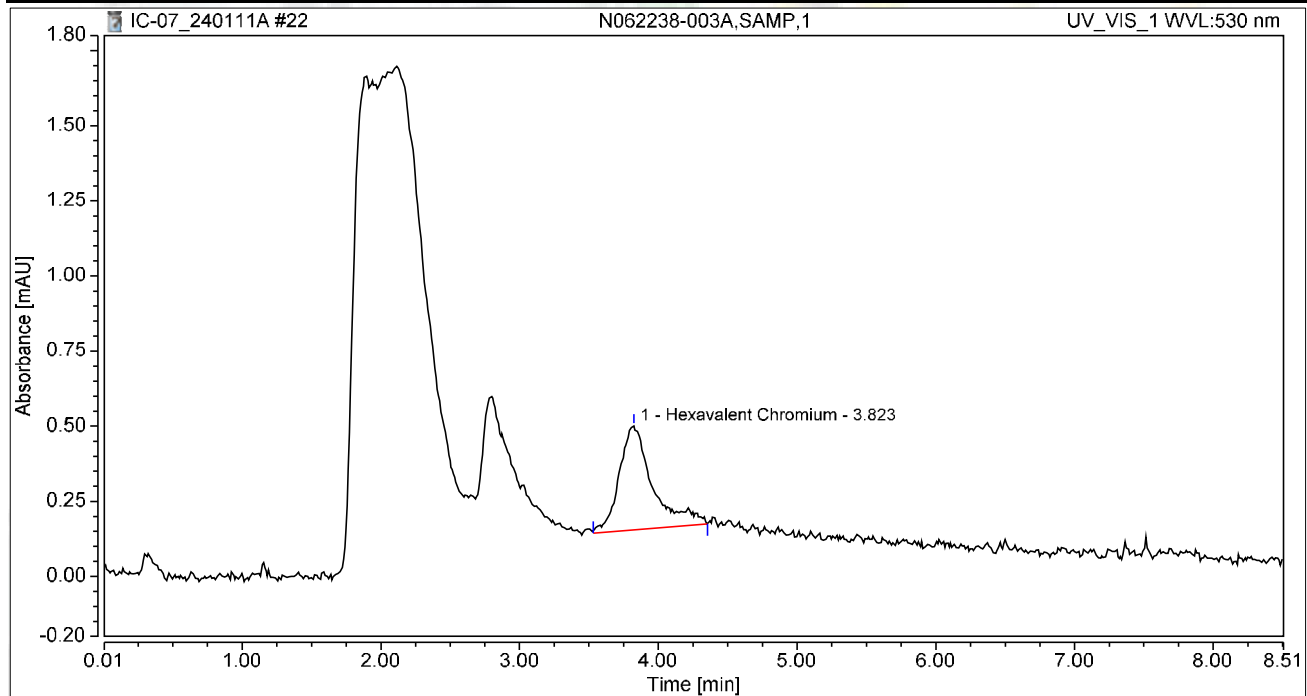
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.244	0.857	100.00	100.00	1.1724
Total:			0.244	0.857	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:31	Sample Weight:	1.0000

Chromatogram



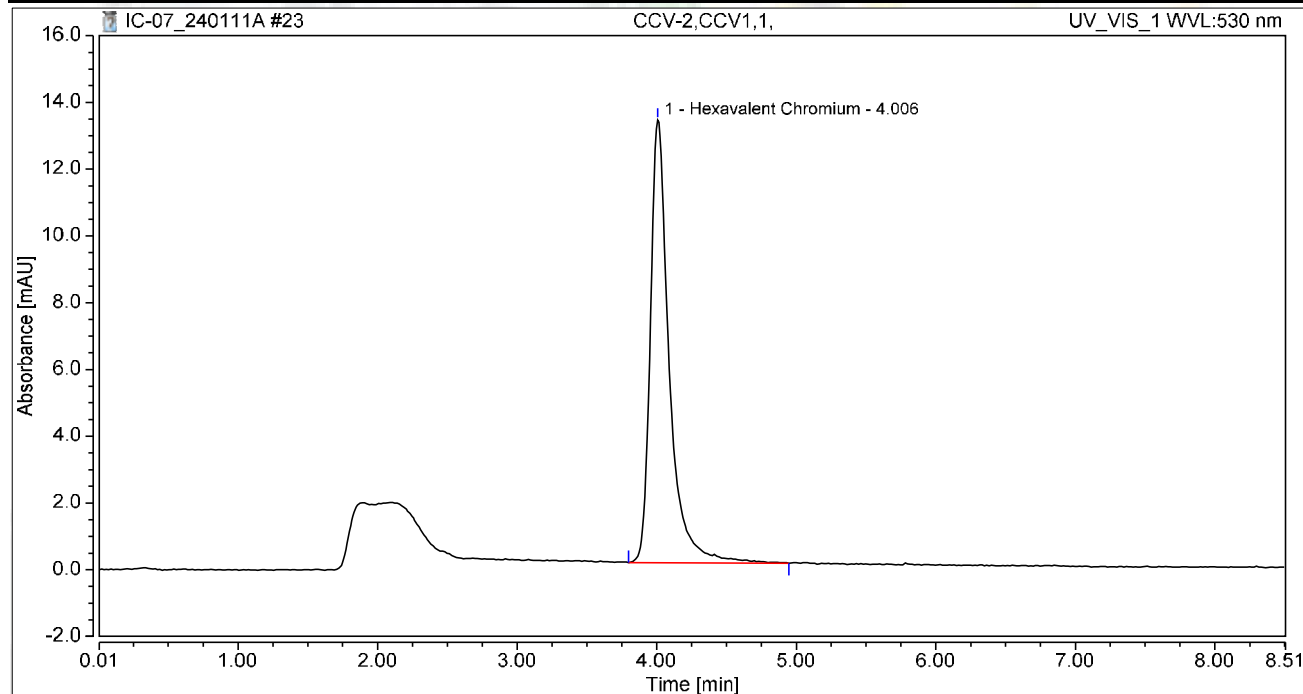
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.097	0.345	100.00	100.00	0.4638
Total:			0.097	0.345	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-2,CCV1,1,	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:41	Sample Weight: 1.0000

Chromatogram

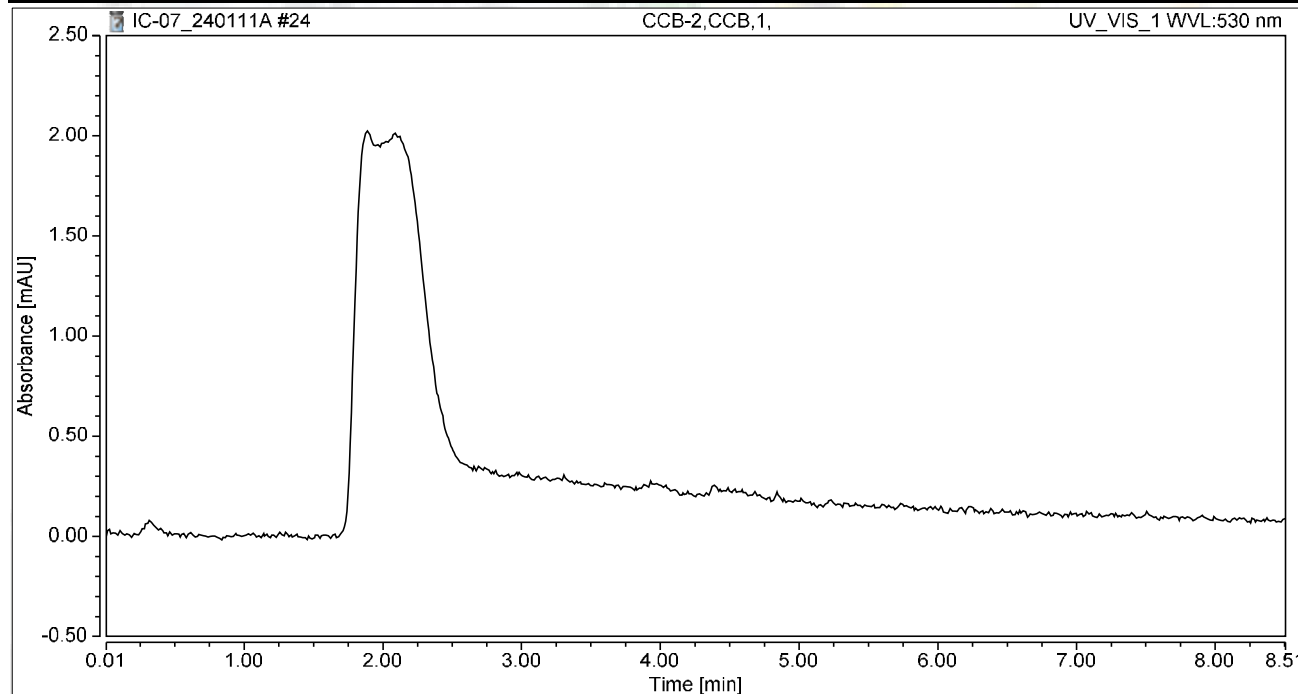


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.084	13.259	100.00	100.00	10.0134
Total:			2.084	13.259	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-2,CCB,1,	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:50	Sample Weight: 1.0000

Chromatogram



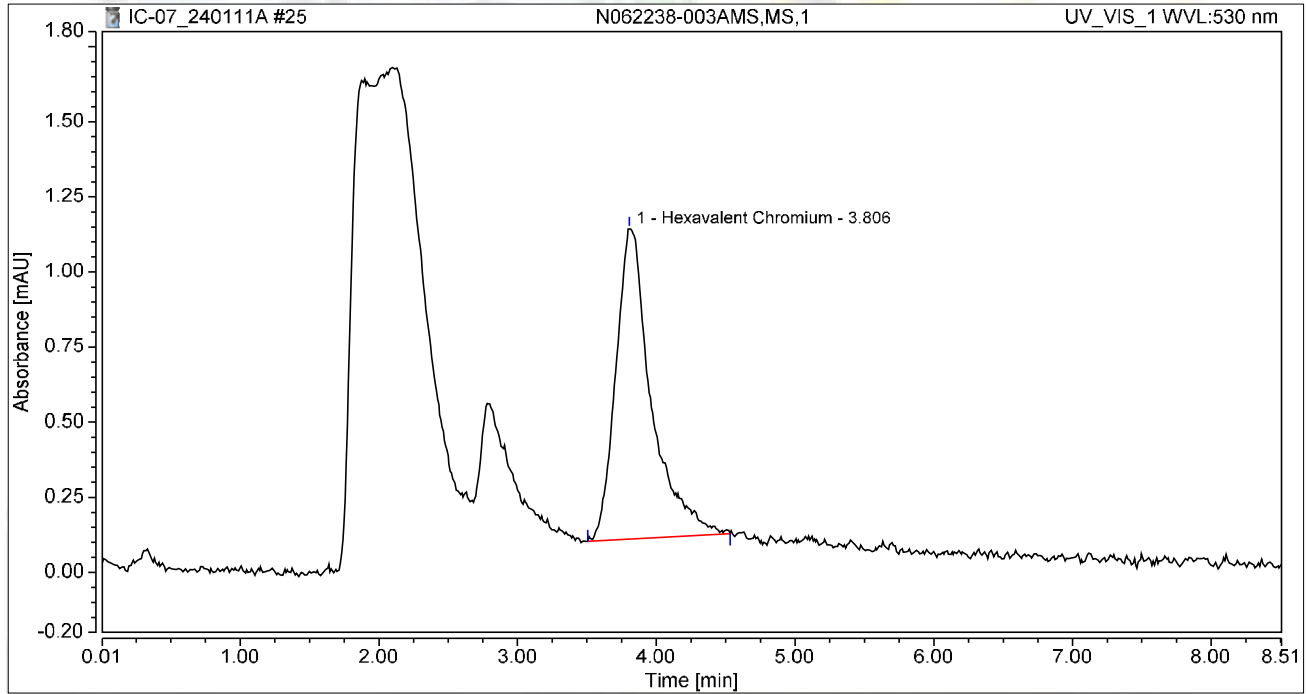
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 14:00	Sample Weight:	1.0000

Chromatogram



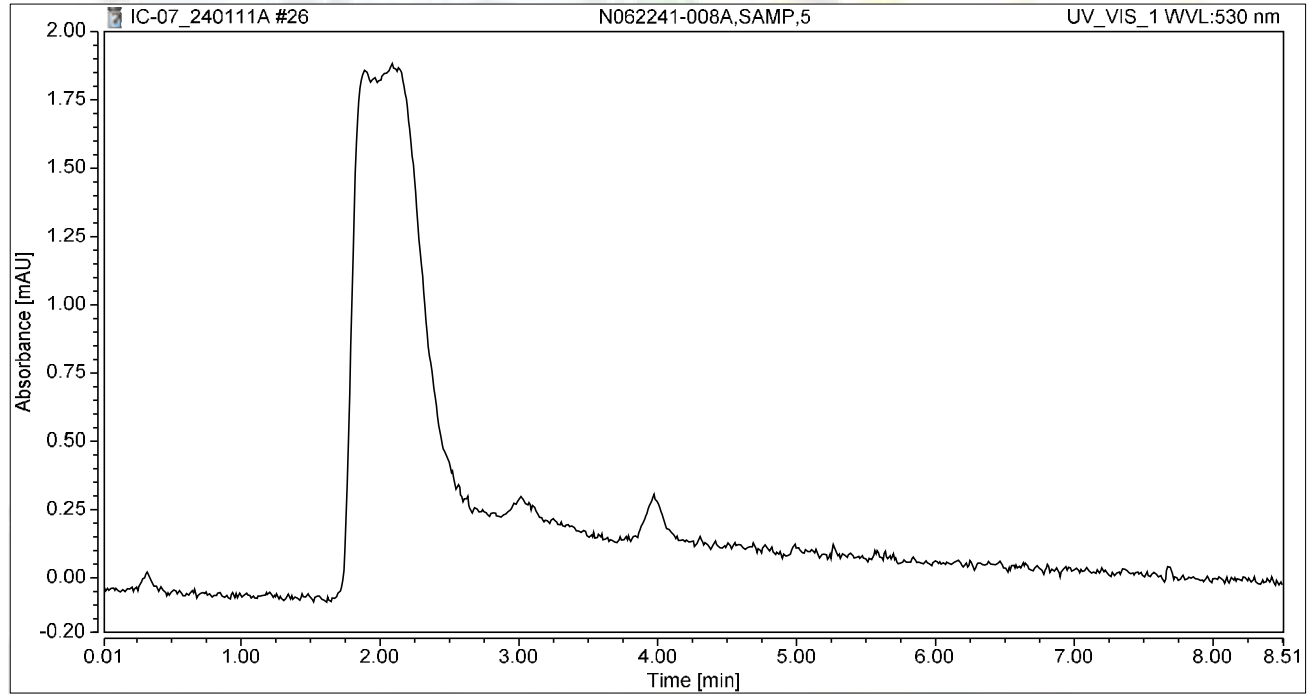
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.307	1.033	100.00	100.00	1.4764
Total:			0.307	1.033	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062241-008A,SAMP,5	Run Time (min): 8.49
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:09	Sample Weight: 1.0000

Chromatogram

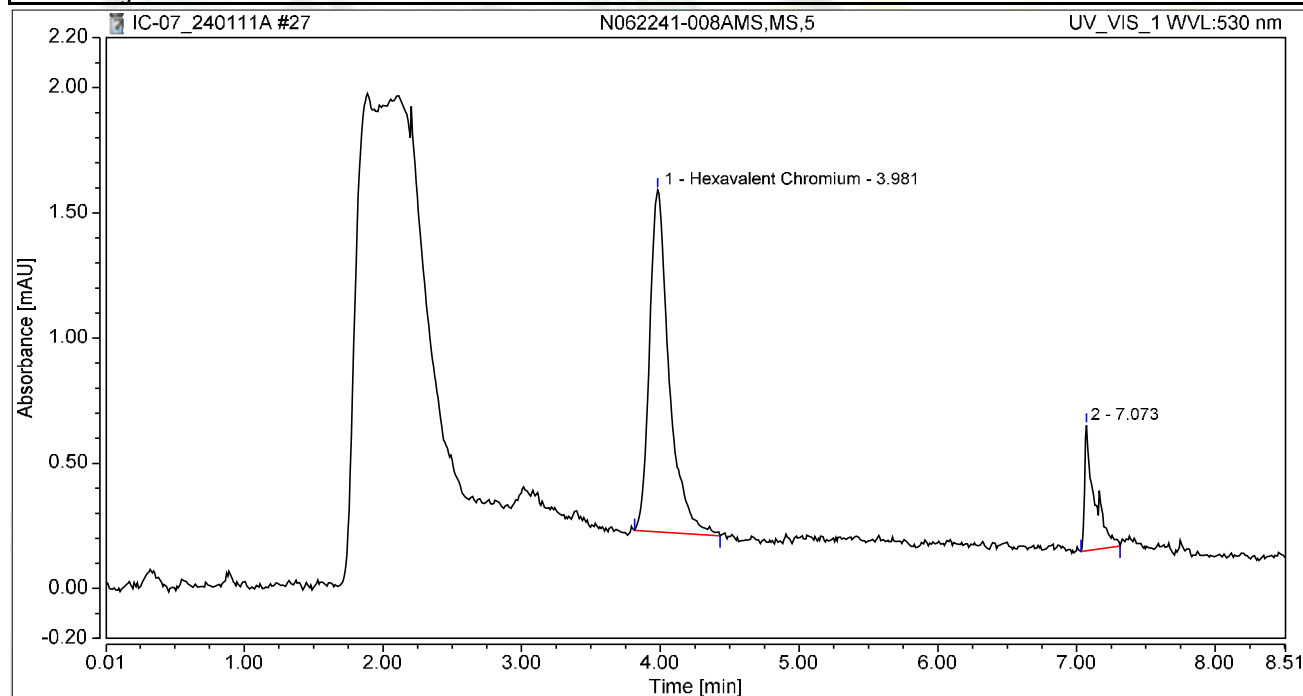


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062241-008AMS,MS,5	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:21	Sample Weight: 1.0000

Chromatogram

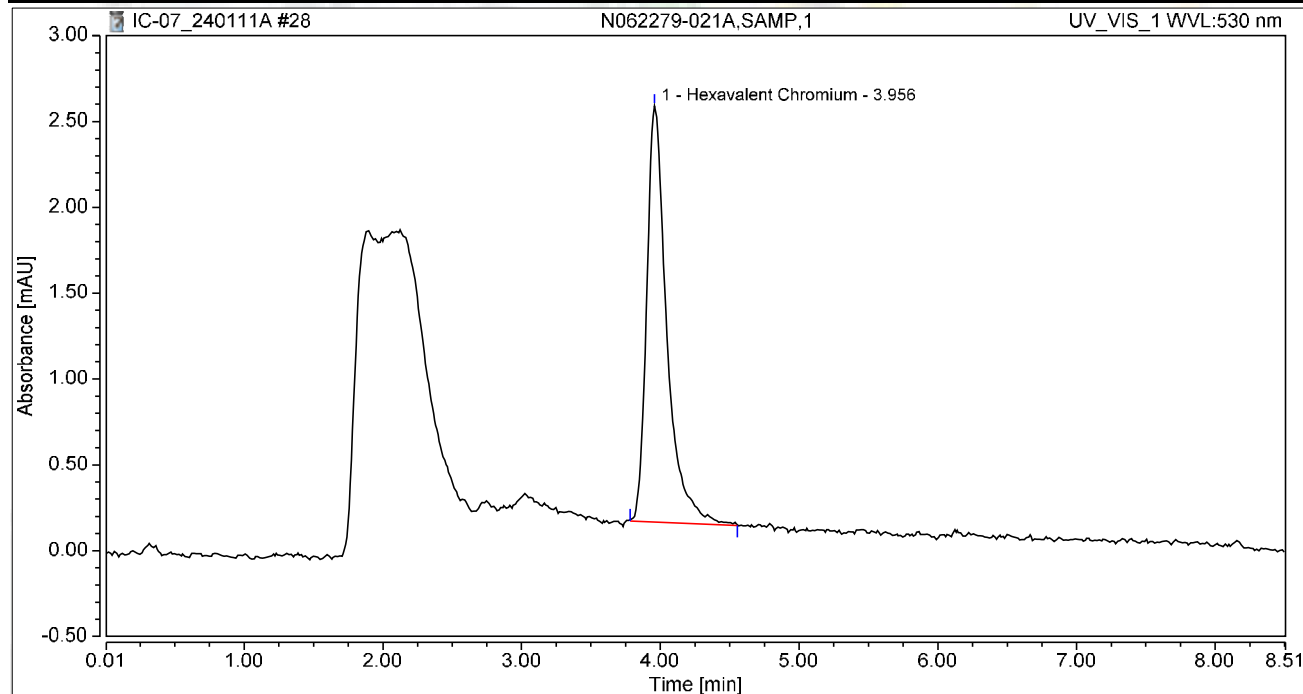


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.224	1.366	84.04	73.17	1.0768
2		7.073	0.043	0.501	15.96	26.83	n.a.
Total:			0.267	1.866	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062279-021A,SAMP,1	Run Time (min): 8.50
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:33	Sample Weight: 1.0000

Chromatogram



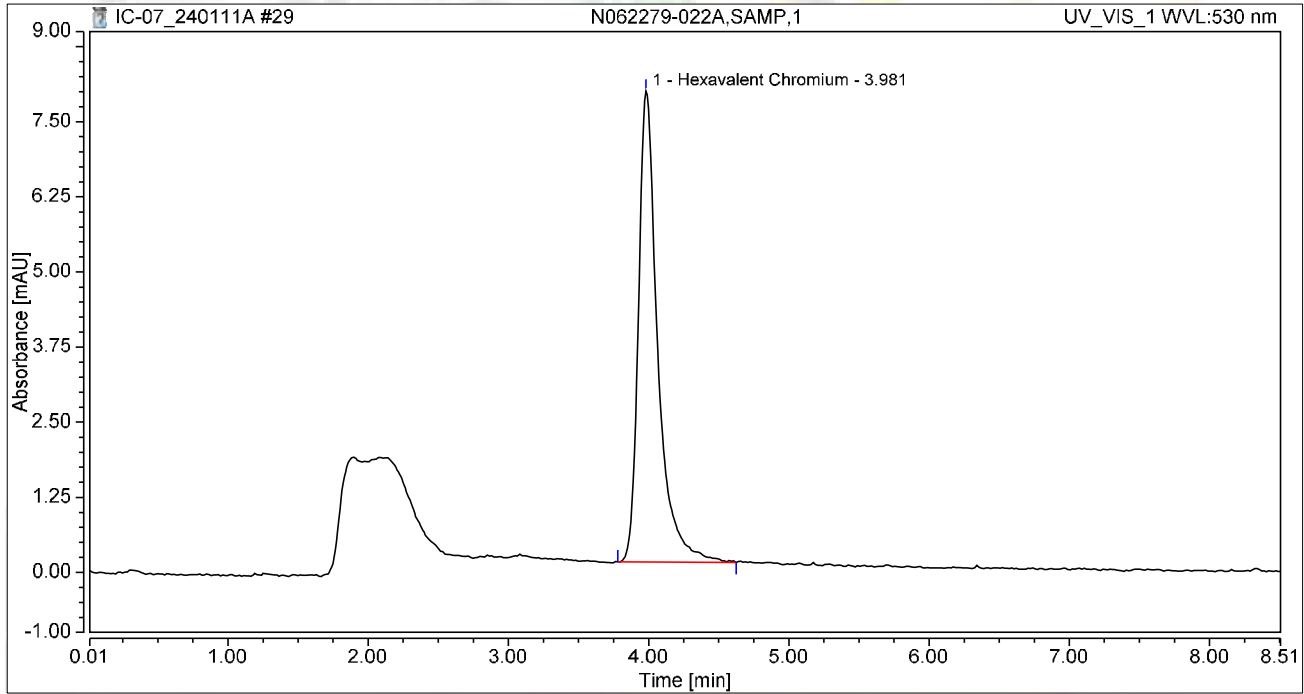
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.956	0.408	2.422	100.00	100.00	1.9596
Total:			0.408	2.422	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062279-022A,SAMP,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 14:42	Sample Weight:	1.0000

Chromatogram



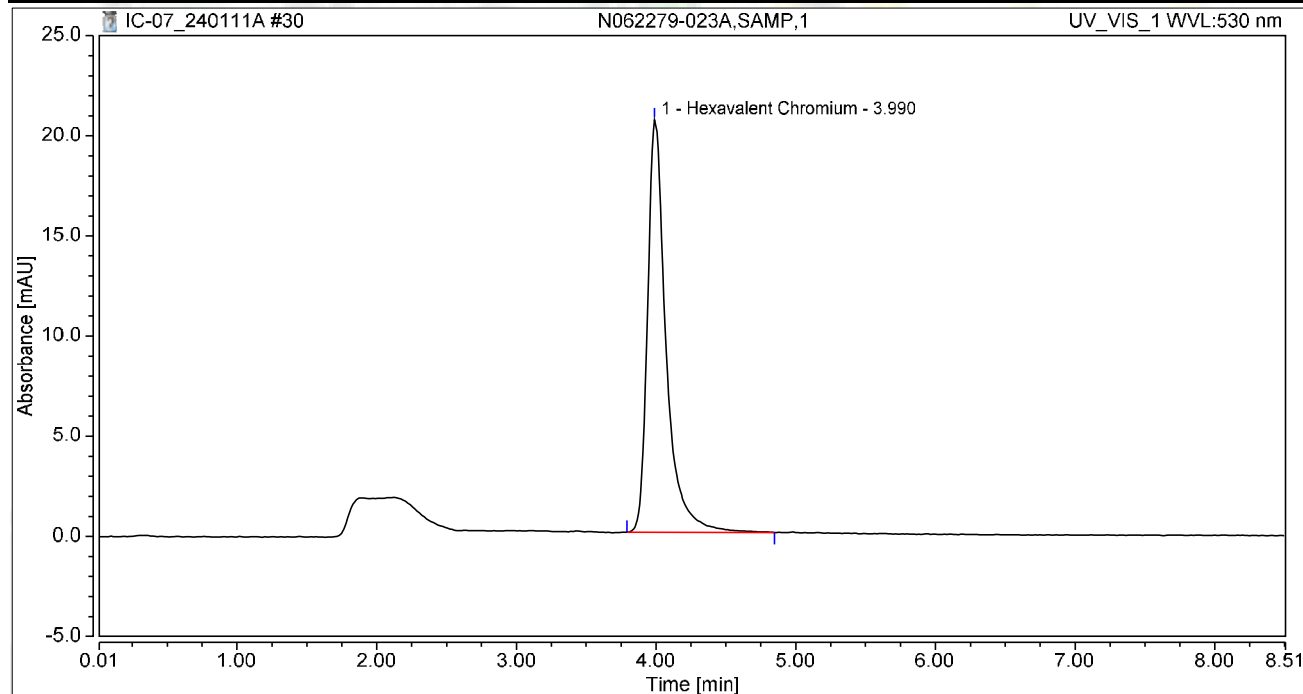
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.251	7.833	100.00	100.00	6.0099
Total:			1.251	7.833	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062279-023A,SAMP,1	Run Time (min): 8.49
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:52	Sample Weight: 1.0000

Chromatogram



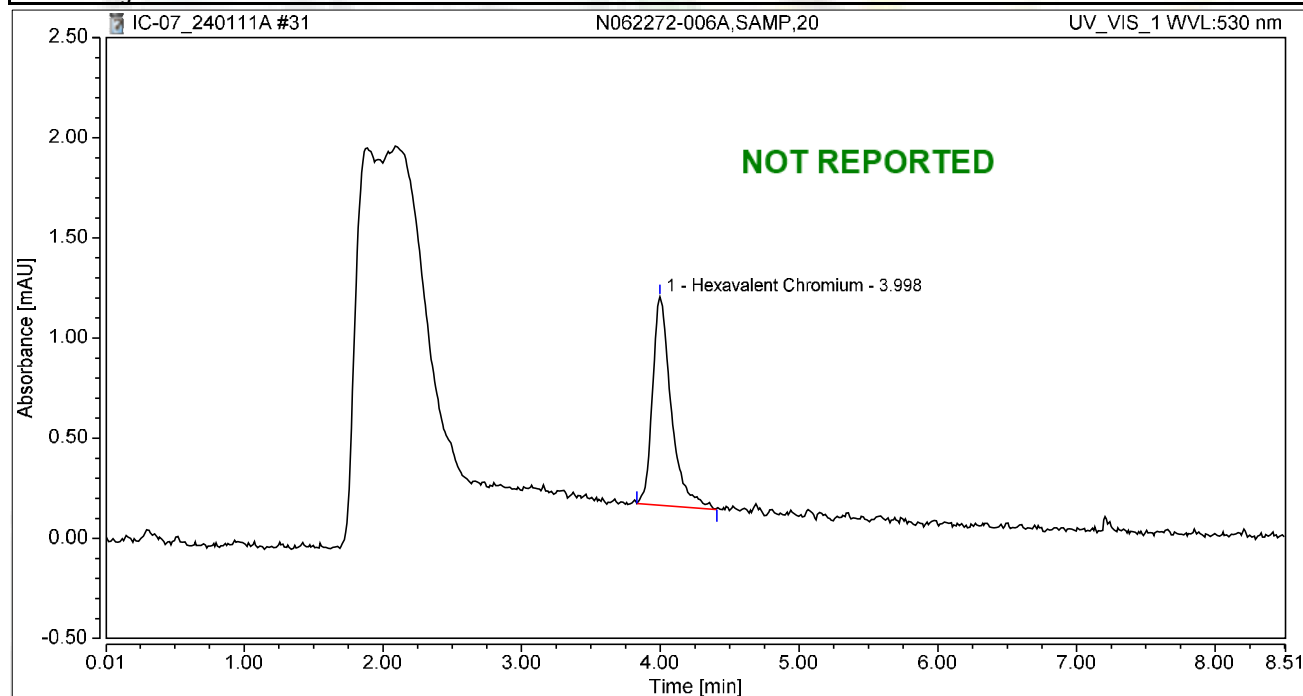
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	3.185	20.601	100.00	100.00	15.3054
Total:			3.185	20.601	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006A,SAMP,20	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

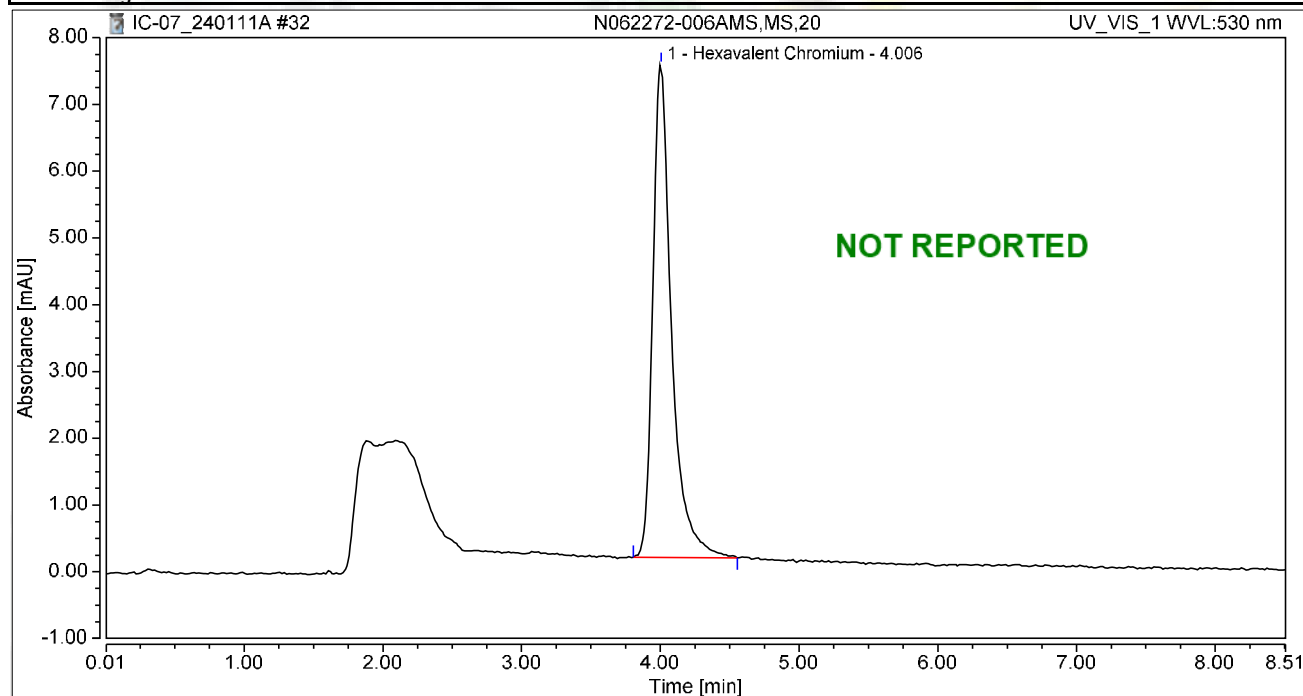
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.163	1.042	100.00	100.00	0.7843
Total:			0.163	1.042	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006AMS,MS,20	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

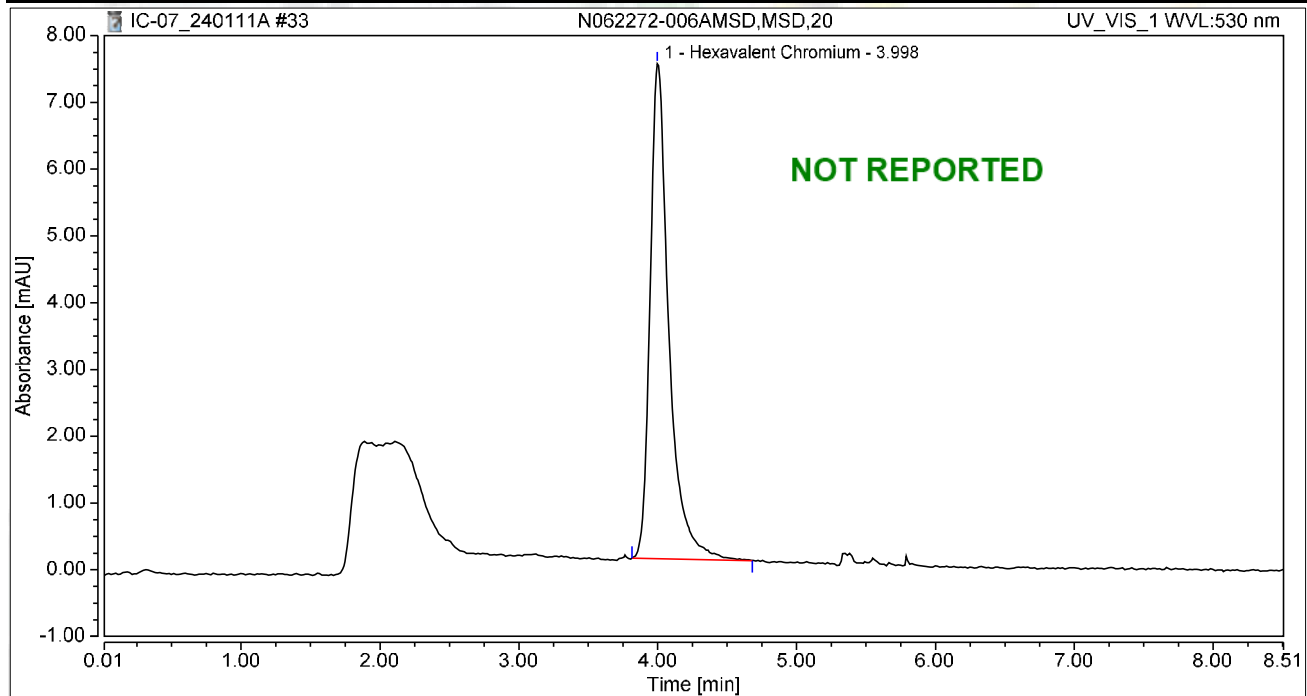
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.157	7.379	100.00	100.00	5.5611
Total:			1.157	7.379	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006AMSD,MSD,20	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:20	Sample Weight:	1.0000

Chromatogram



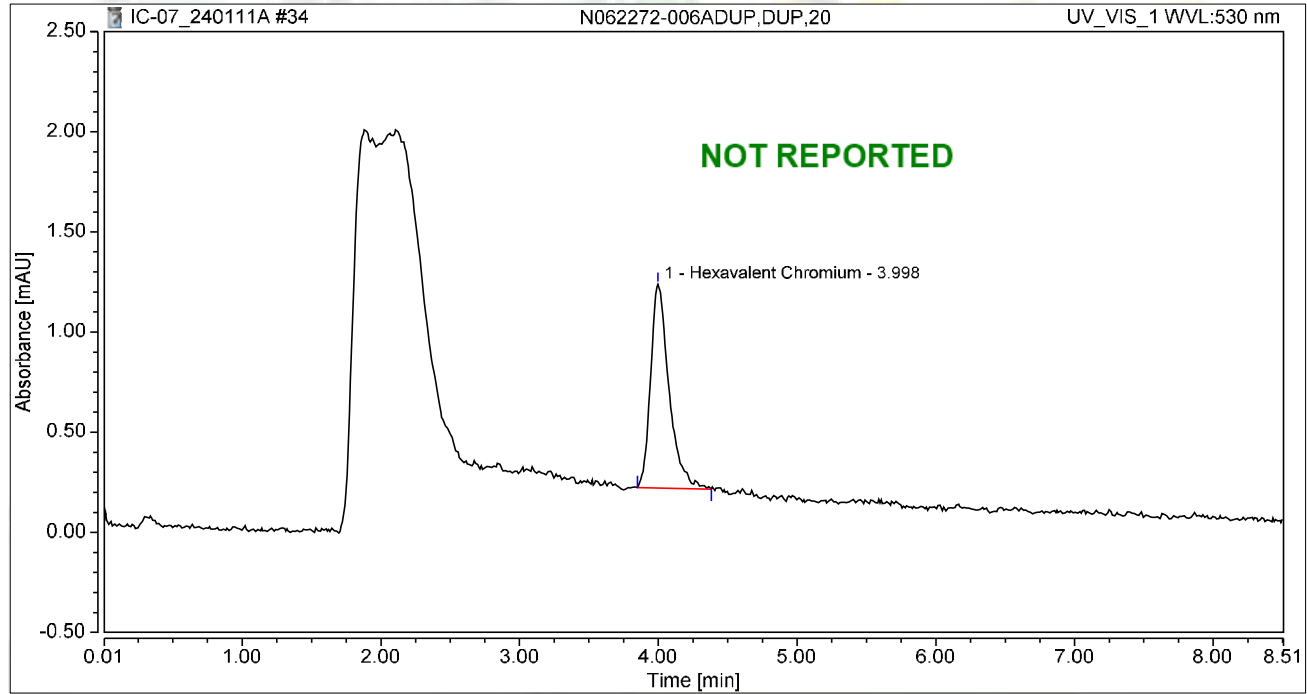
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.165	7.416	100.00	100.00	5.5992
Total:			1.165	7.416	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-006ADUP,DUP,20	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 15:29	Sample Weight: 1.0000

Chromatogram

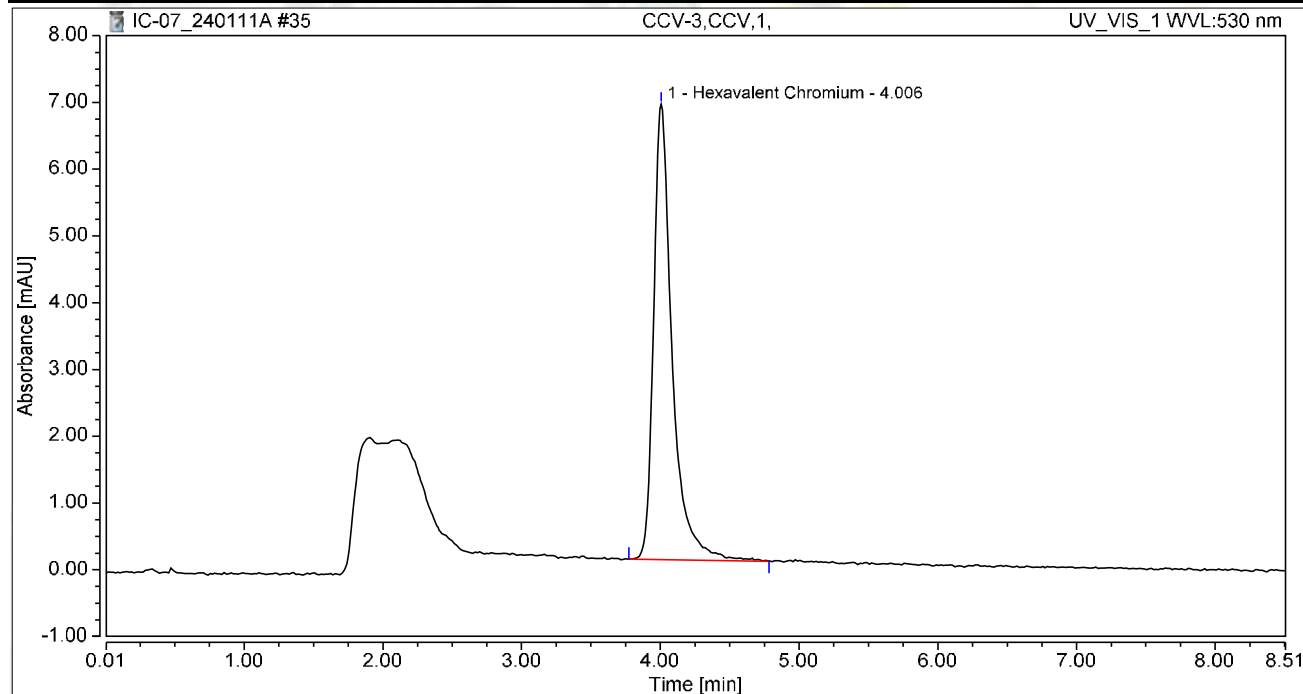


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.157	1.017	100.00	100.00	0.7543
Total:			0.157	1.017	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-3,CCV,1,	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 15:39	Sample Weight: 1.0000

Chromatogram



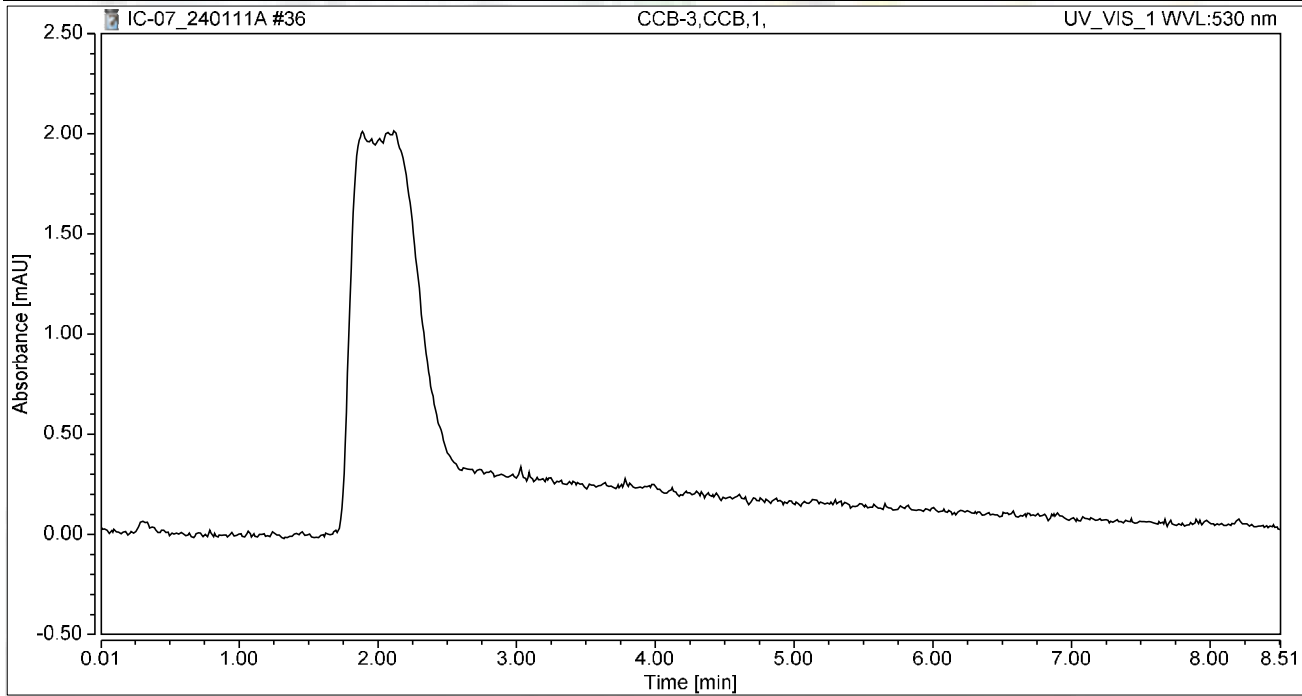
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.061	6.825	100.00	100.00	5.1008
Total:			1.061	6.825	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

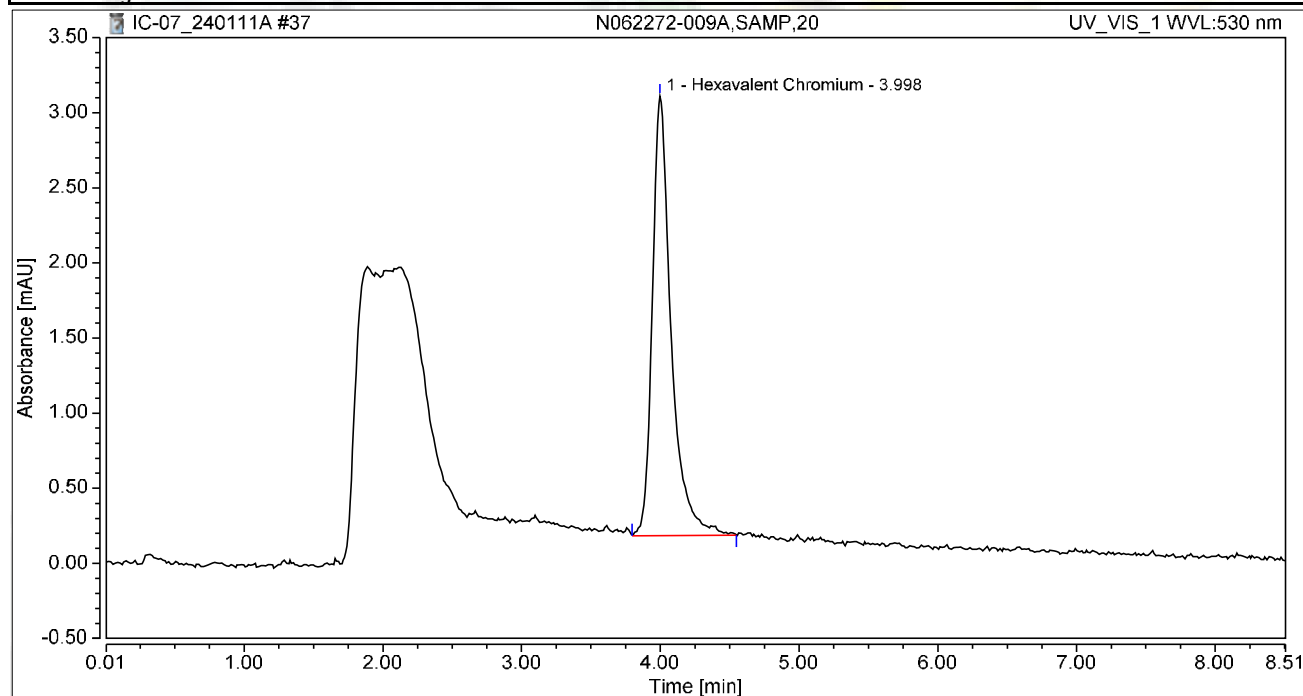
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-009A,SAMP,20	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:58	Sample Weight:	1.0000

Chromatogram



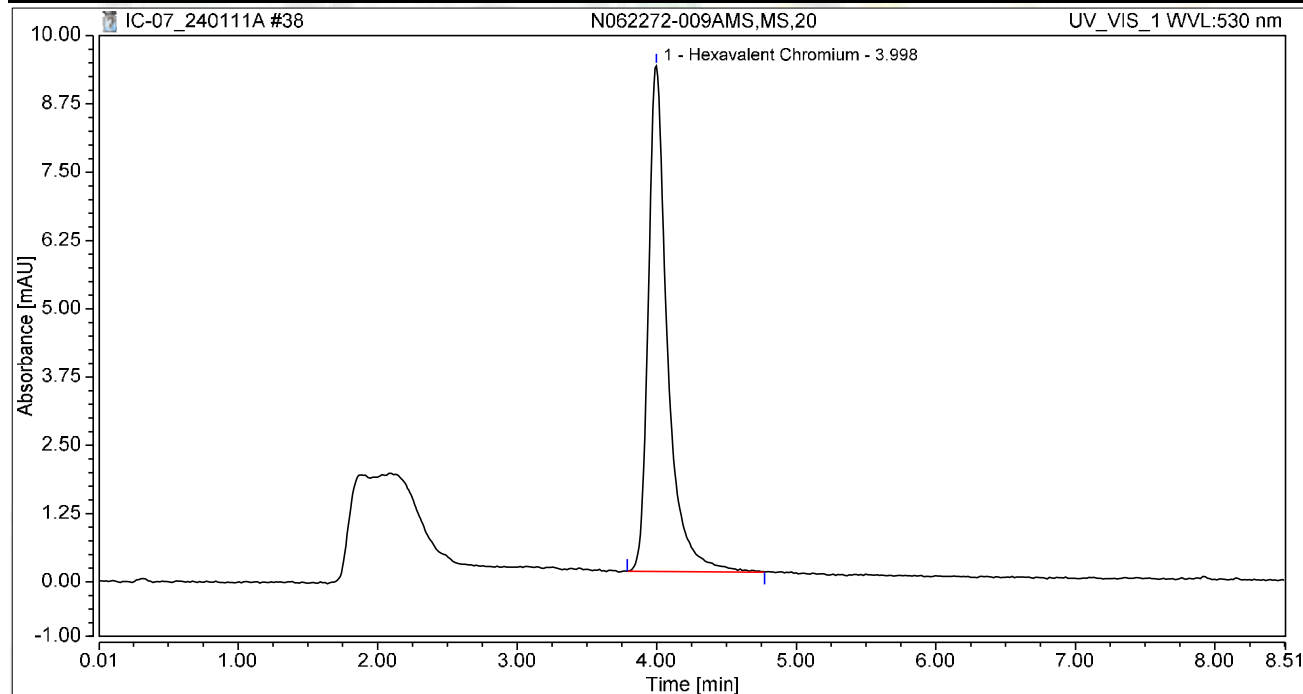
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.461	2.926	100.00	100.00	2.2154
Total:			0.461	2.926	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-009AMS,MS,20	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:07	Sample Weight: 1.0000

Chromatogram

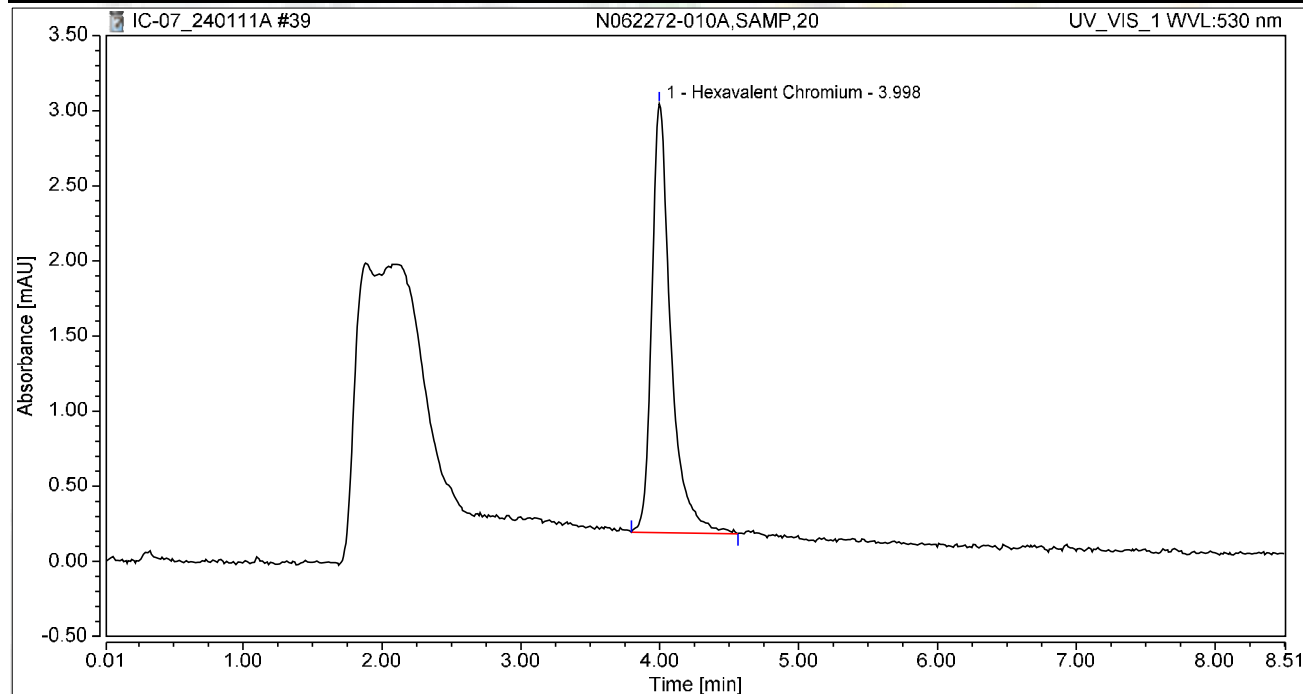


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.477	9.258	100.00	100.00	7.0987
Total:			1.477	9.258	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-010A,SAMP,20	Run Time (min): 8.49
Vial Number:	13	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:17	Sample Weight: 1.0000

Chromatogram



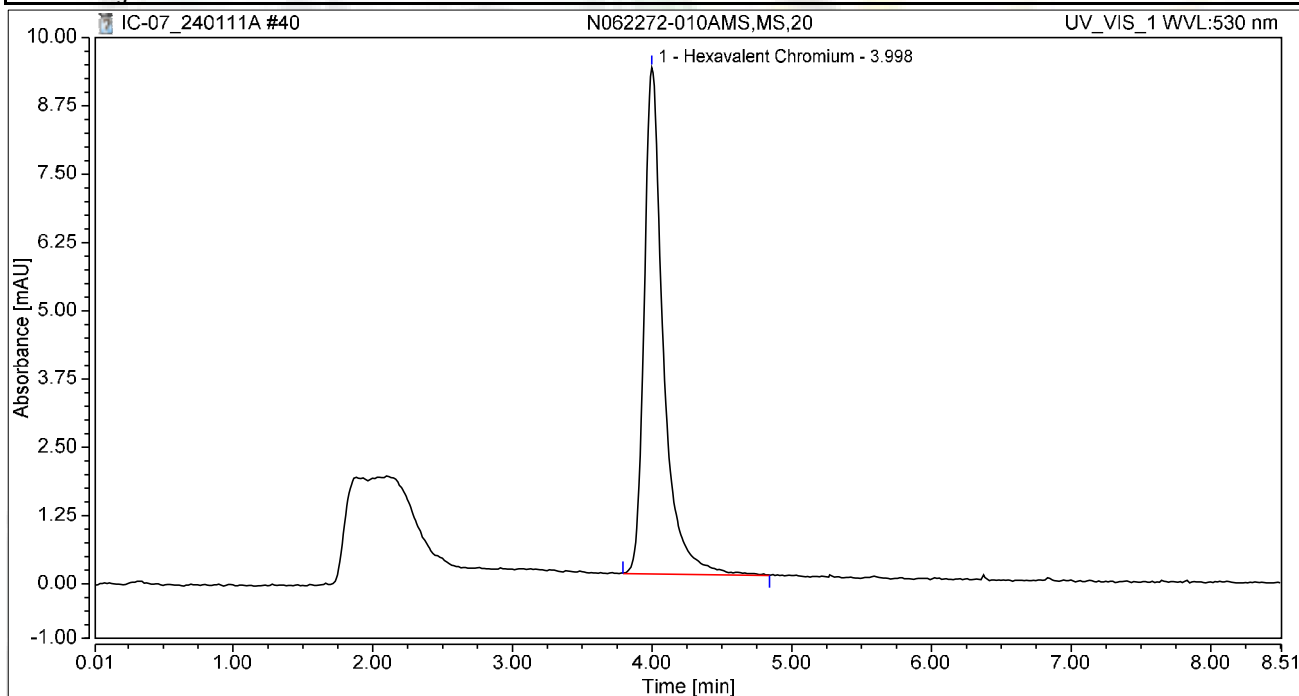
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.453	2.854	100.00	100.00	2.1754
Total:			0.453	2.854	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-010AMS,MS,20	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:26	Sample Weight:	1.0000

Chromatogram



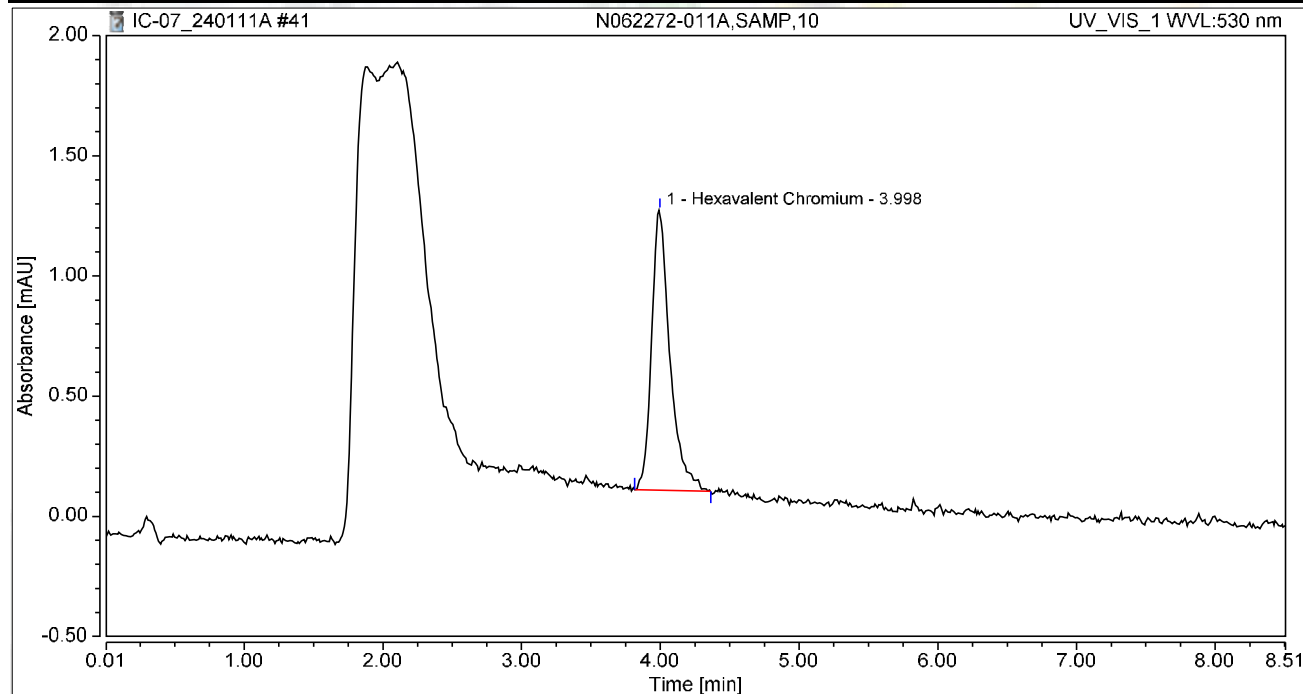
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.476	9.270	100.00	100.00	7.0924
Total:			1.476	9.270	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011A,SAMP,10	Run Time (min): 8.50
Vial Number:	15	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:36	Sample Weight: 1.0000

Chromatogram

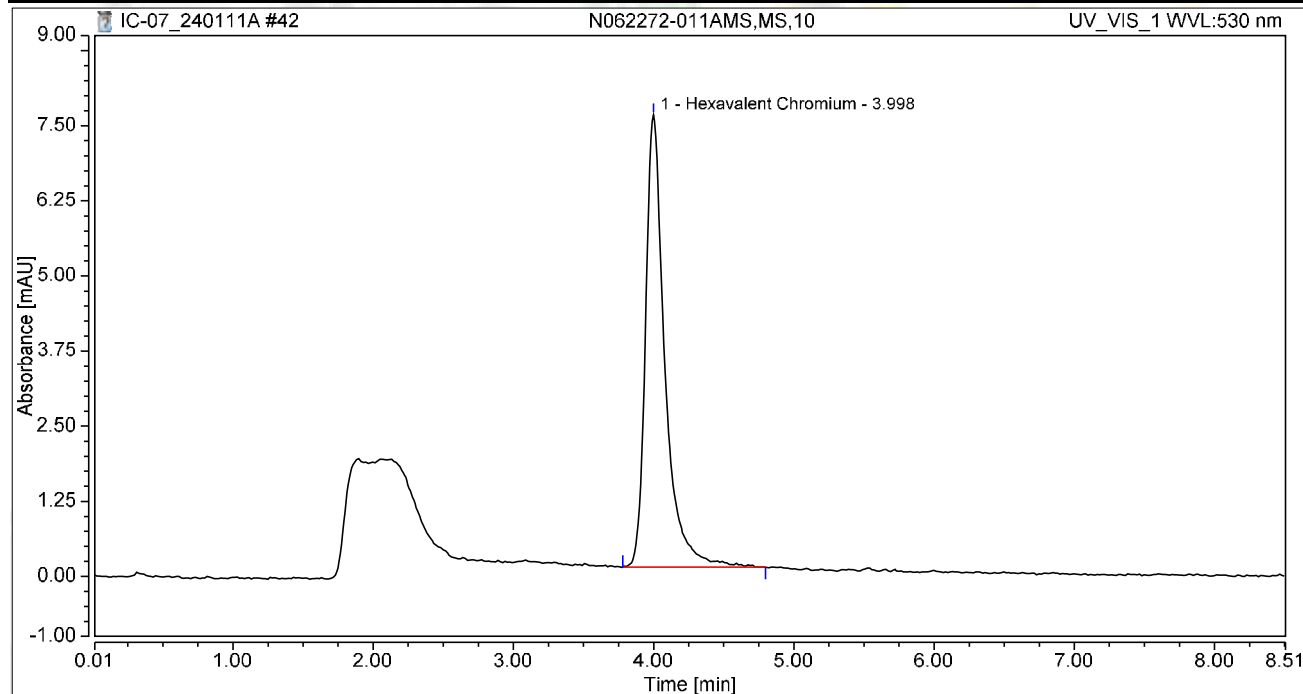


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.179	1.165	100.00	100.00	0.8606
Total:			0.179	1.165	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011AMS,MS,10	Run Time (min): 8.49
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:45	Sample Weight: 1.0000

Chromatogram

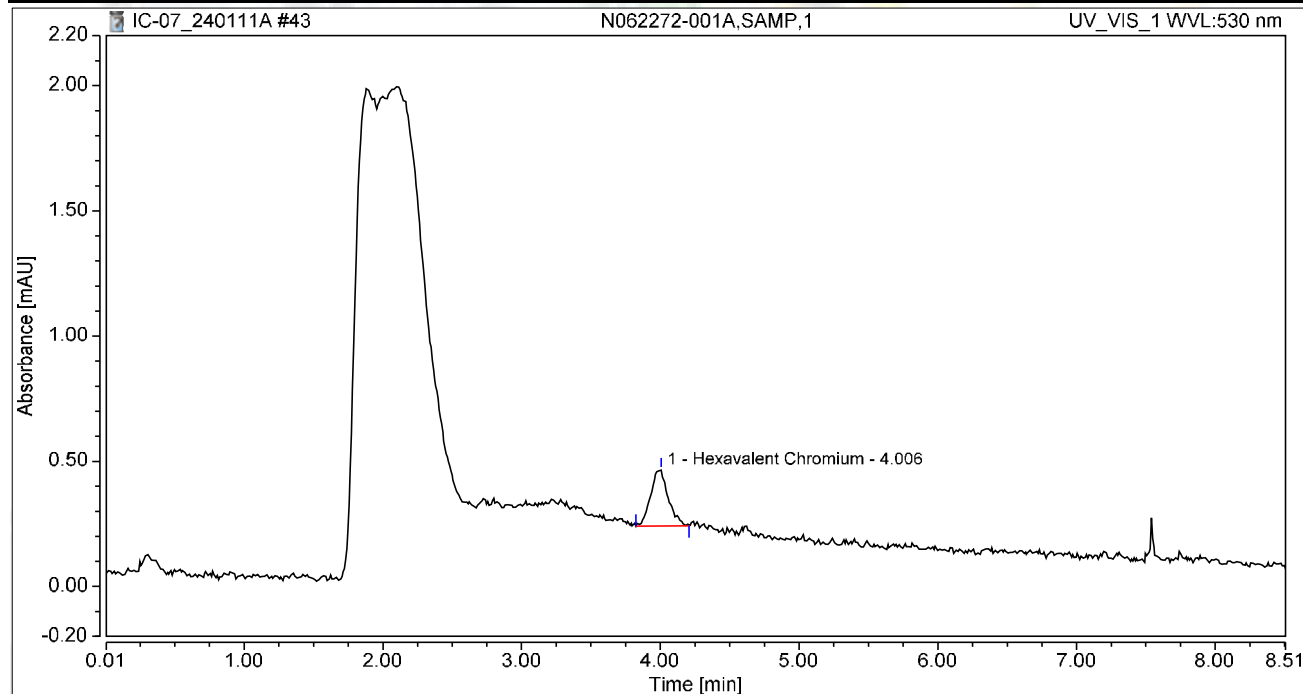


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.206	7.524	100.00	100.00	5.7972
Total:			1.206	7.524	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	17	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:54	Sample Weight: 1.0000

Chromatogram

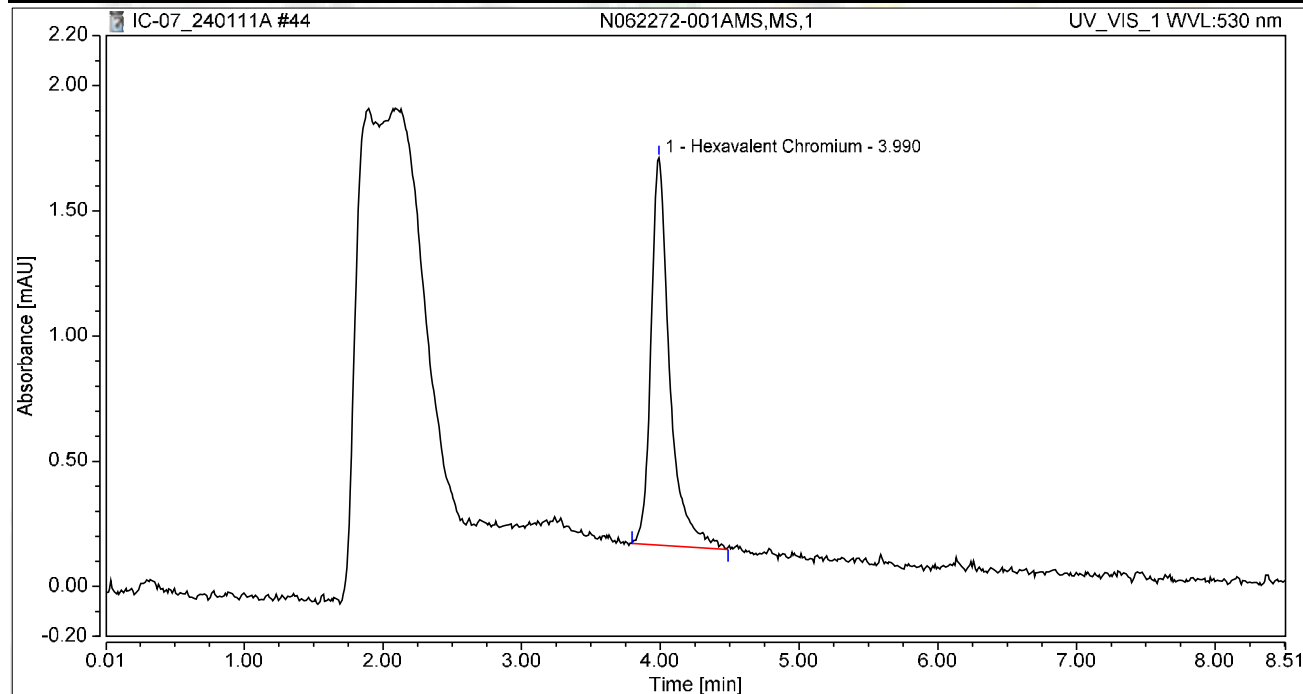


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.033	0.223	100.00	100.00	0.1580
Total:			0.033	0.223	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:04	Sample Weight: 1.0000

Chromatogram

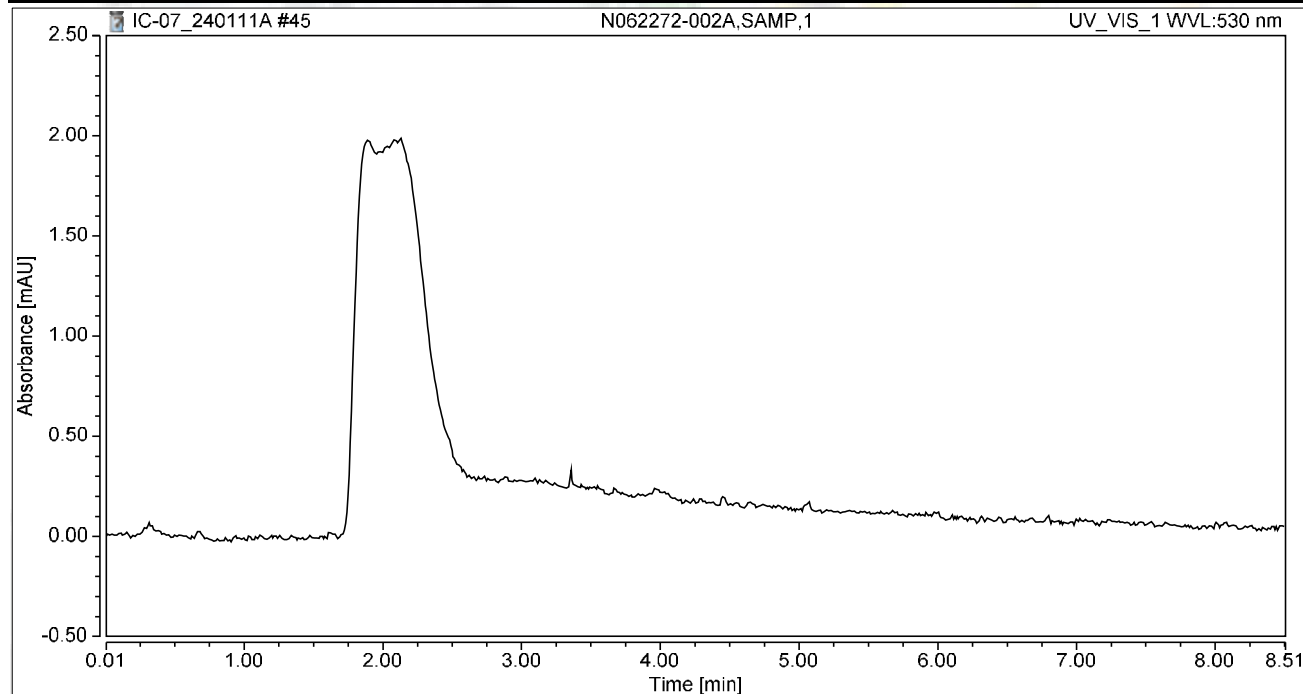


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.242	1.547	100.00	100.00	1.1625
Total:			0.242	1.547	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	19	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:13	Sample Weight: 1.0000

Chromatogram

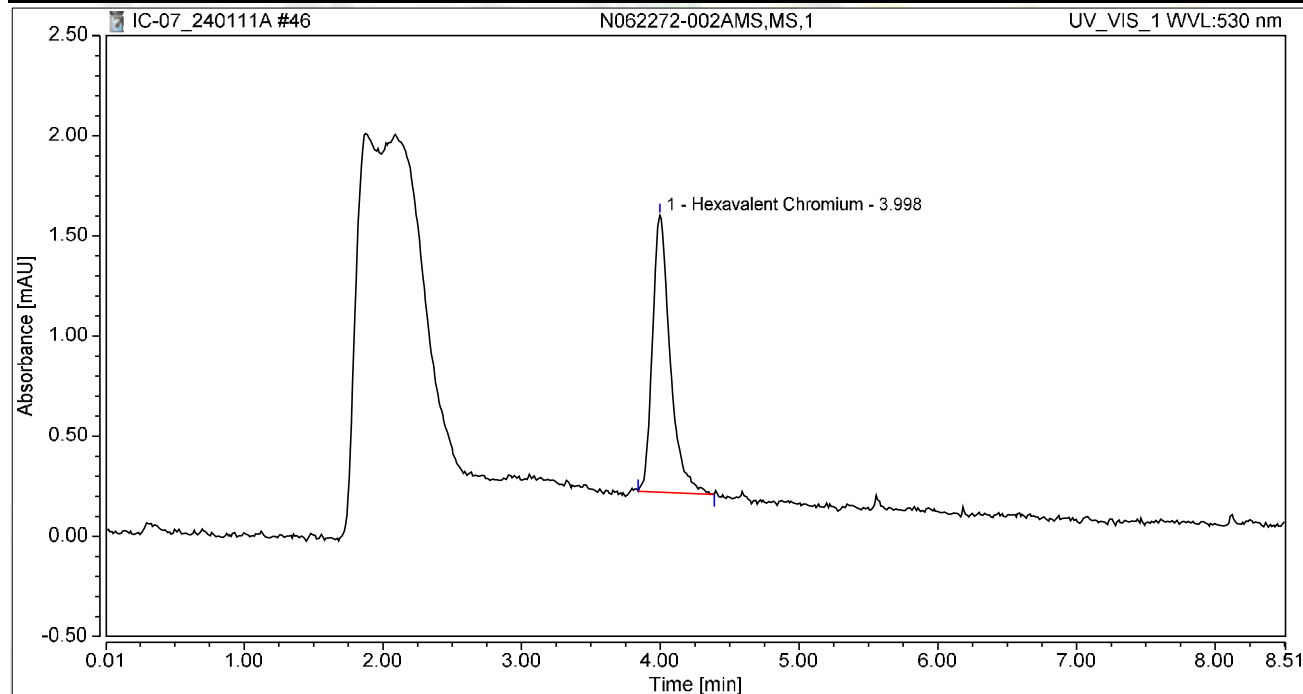


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:23	Sample Weight: 1.0000

Chromatogram



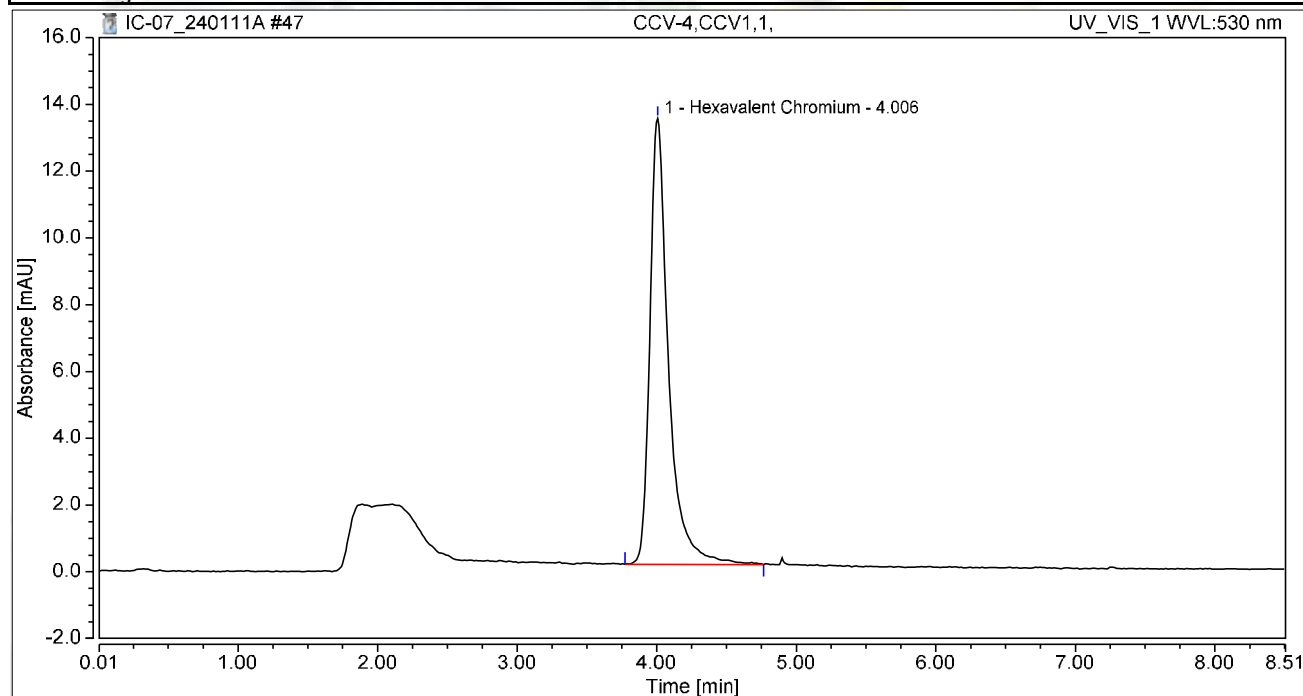
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.205	1.381	100.00	100.00	0.9842
Total:			0.205	1.381	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

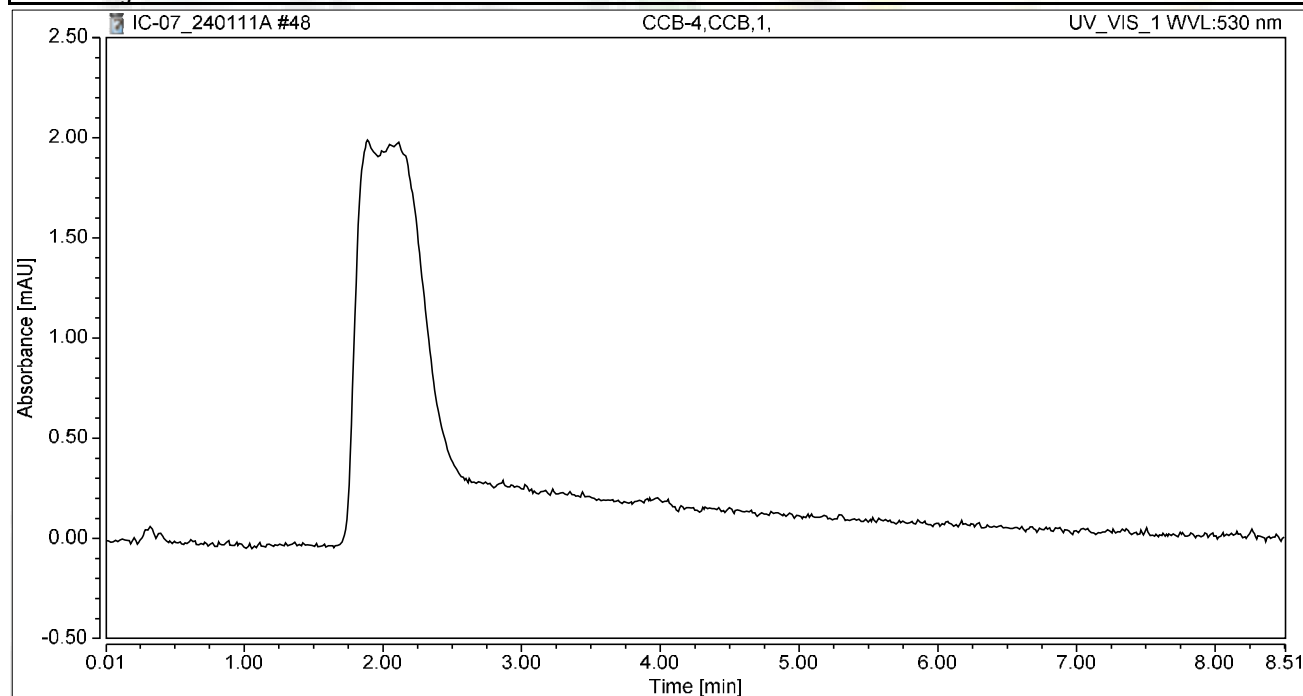
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.062	13.356	100.00	100.00	9.9119
Total:			2.062	13.356	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:42	Sample Weight:	1.0000

Chromatogram



Integration Results

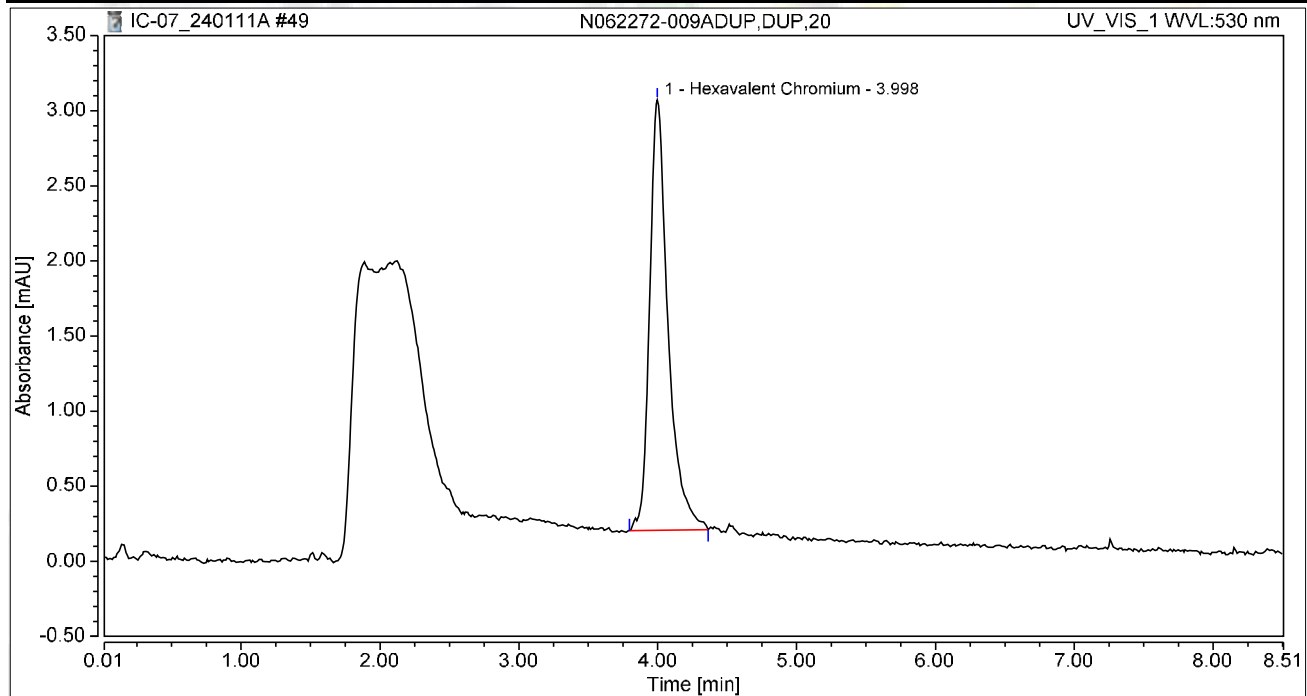
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-009ADUP,DUP,20	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:51	Sample Weight:	1.0000

Chromatogram



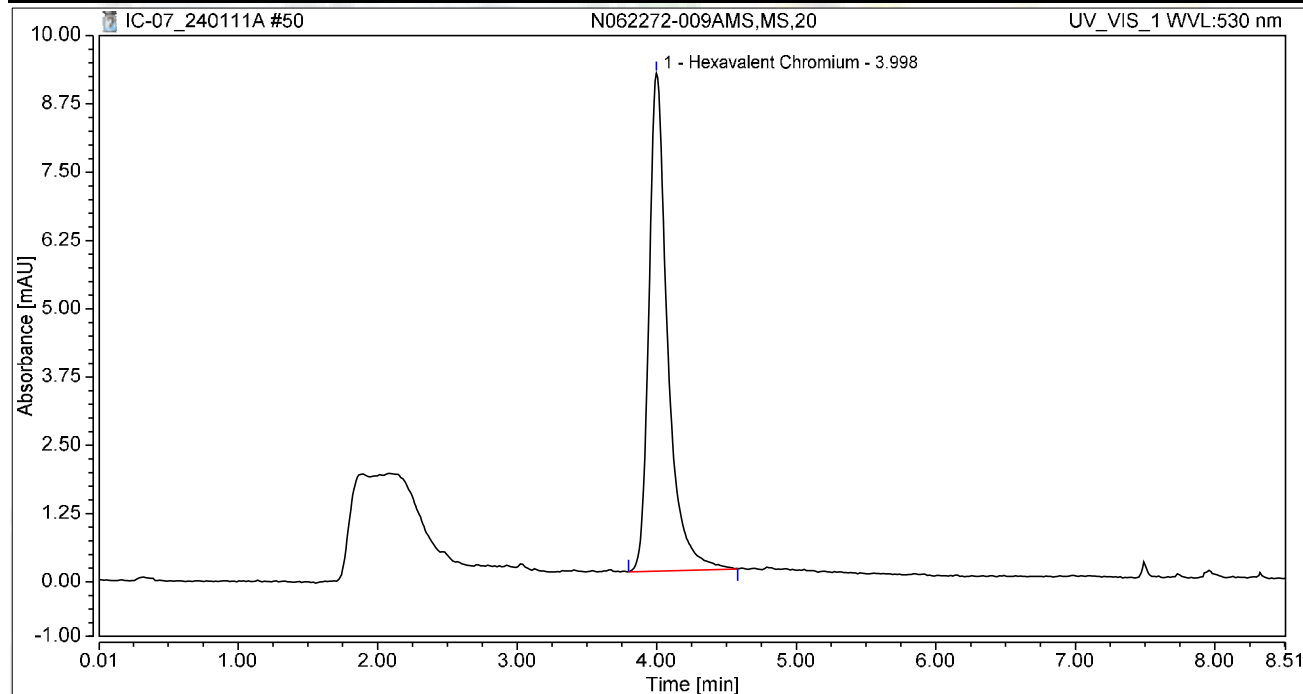
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.441	2.866	100.00	100.00	2.1205
Total:			0.441	2.866	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-009AMS,MS,20 MSD	Run Time (min): 8.50
Vial Number:	24	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 18:01	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.421	9.112	100.00	100.00	6.8296
Total:			1.421	9.112	100.00	100.00	

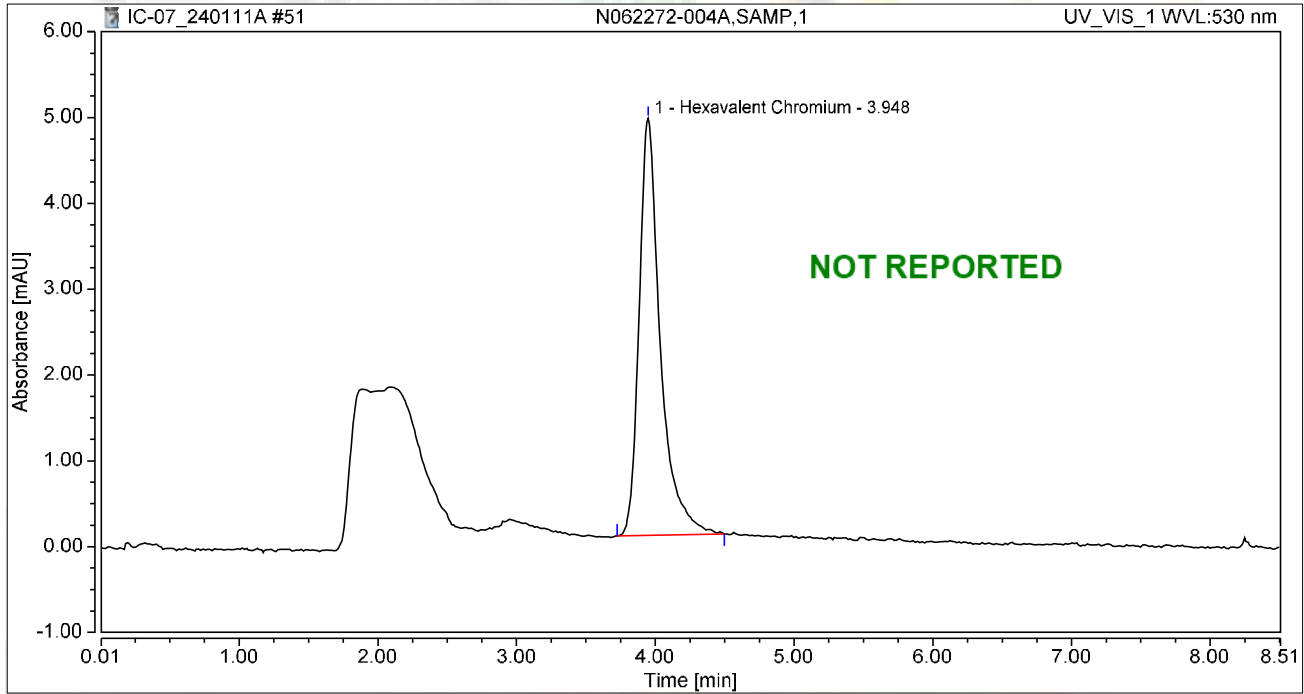
MRecha 1/23/2024
for RBA

Chromatogram and Results

Injection Details

Injection Name:	N062272-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:10	Sample Weight:	1.0000

Chromatogram



Integration Results

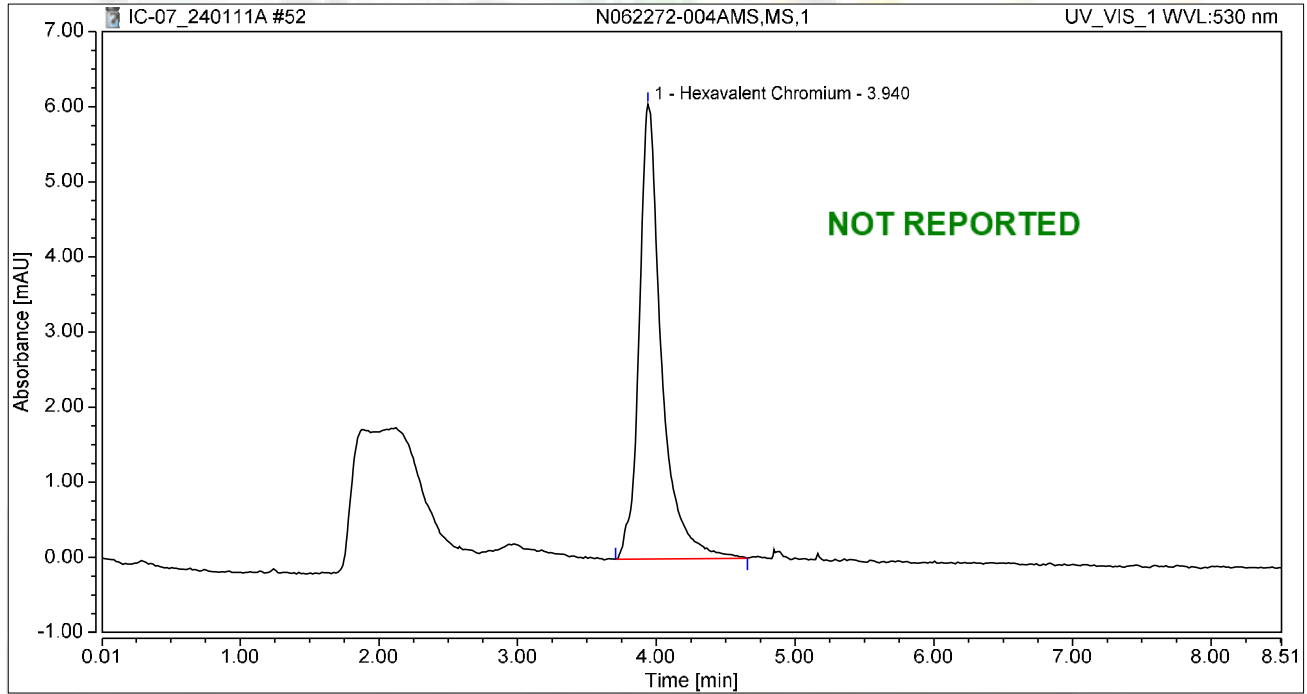
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	0.864	4.861	100.00	100.00	4.1504
Total:			0.864	4.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:20	Sample Weight:	1.0000

Chromatogram



Integration Results

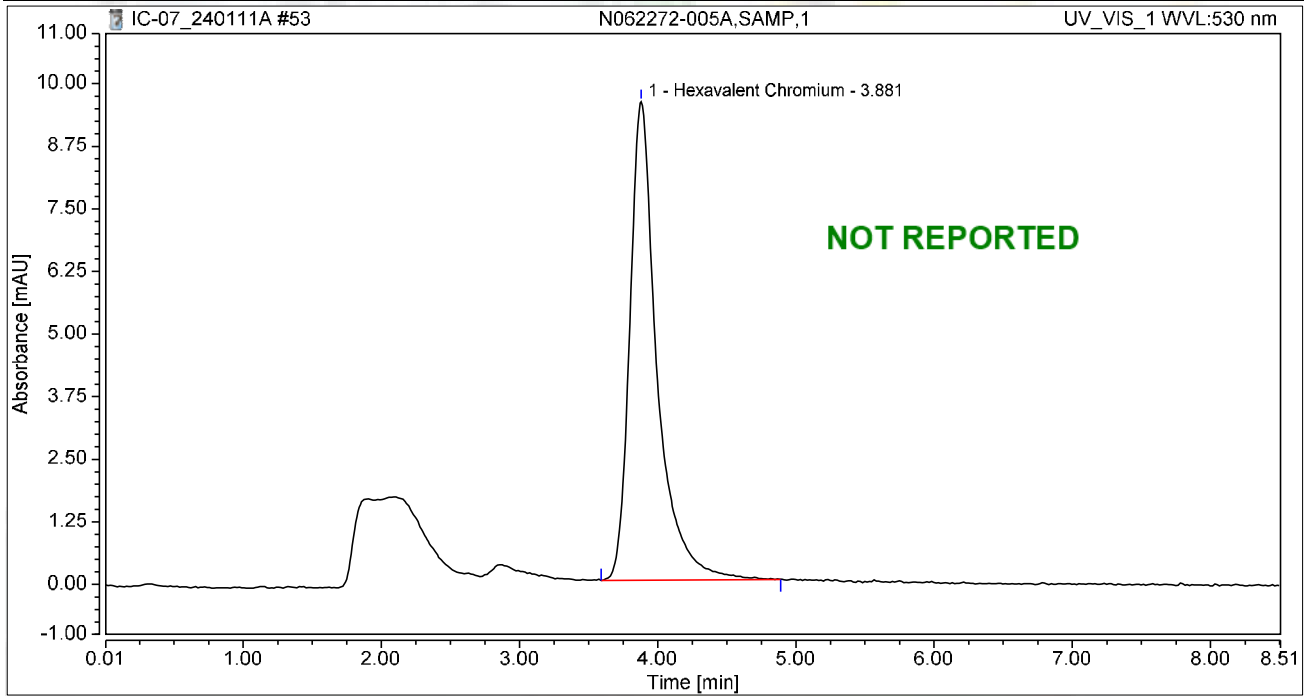
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.940	1.132	6.055	100.00	100.00	5.4396
Total:			1.132	6.055	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:29	Sample Weight:	1.0000

Chromatogram



Integration Results

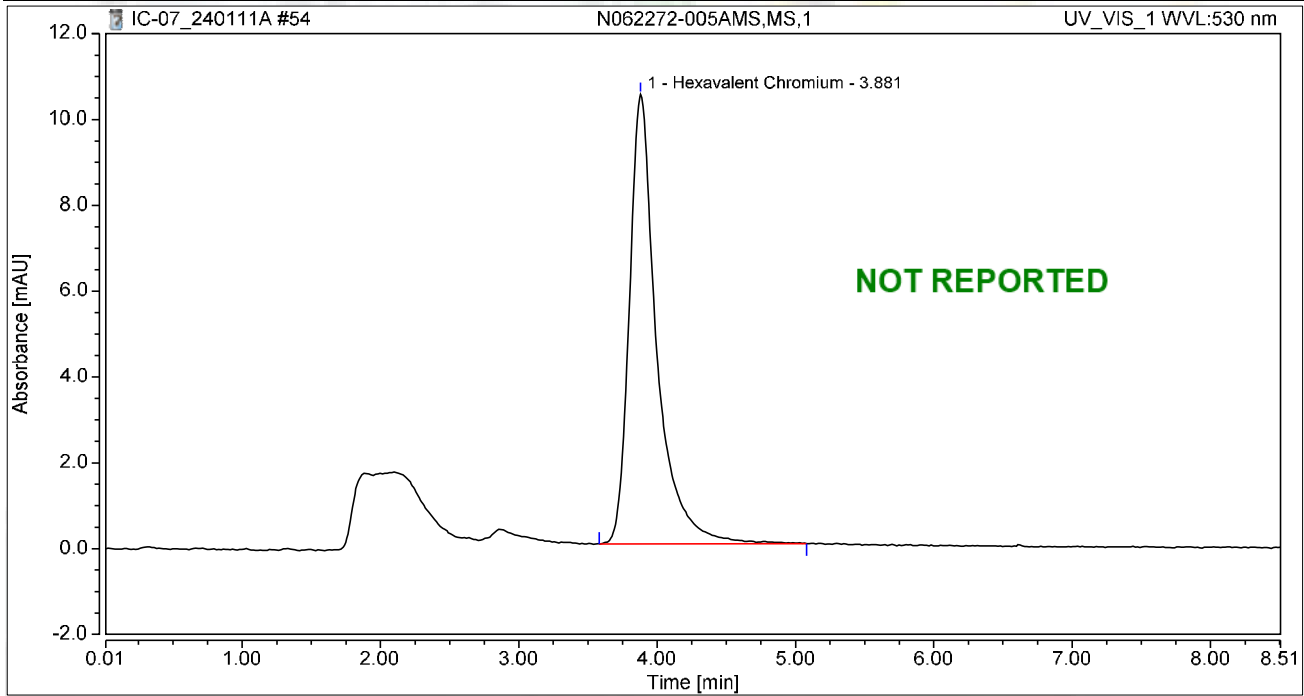
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	2.188	9.559	100.00	100.00	10.5152
Total:			2.188	9.559	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:39	Sample Weight:	1.0000

Chromatogram



Integration Results

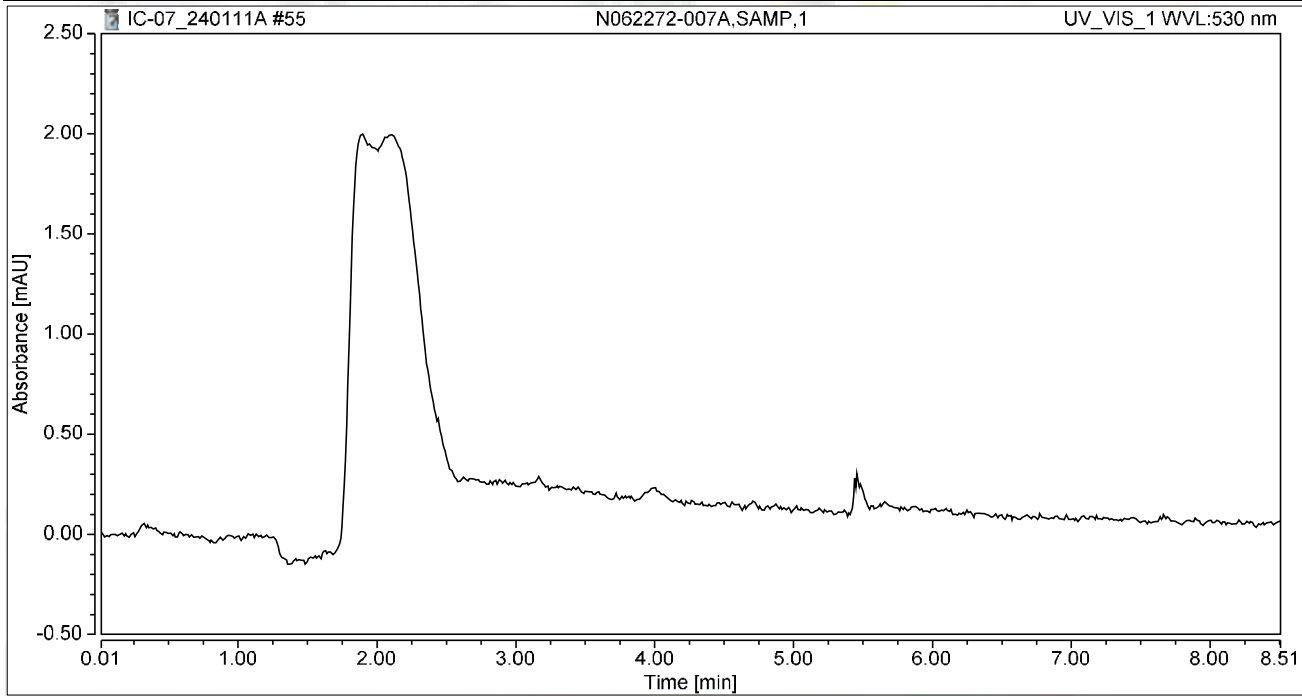
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	2.409	10.476	100.00	100.00	11.5757
Total:			2.409	10.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:48	Sample Weight:	1.0000

Chromatogram



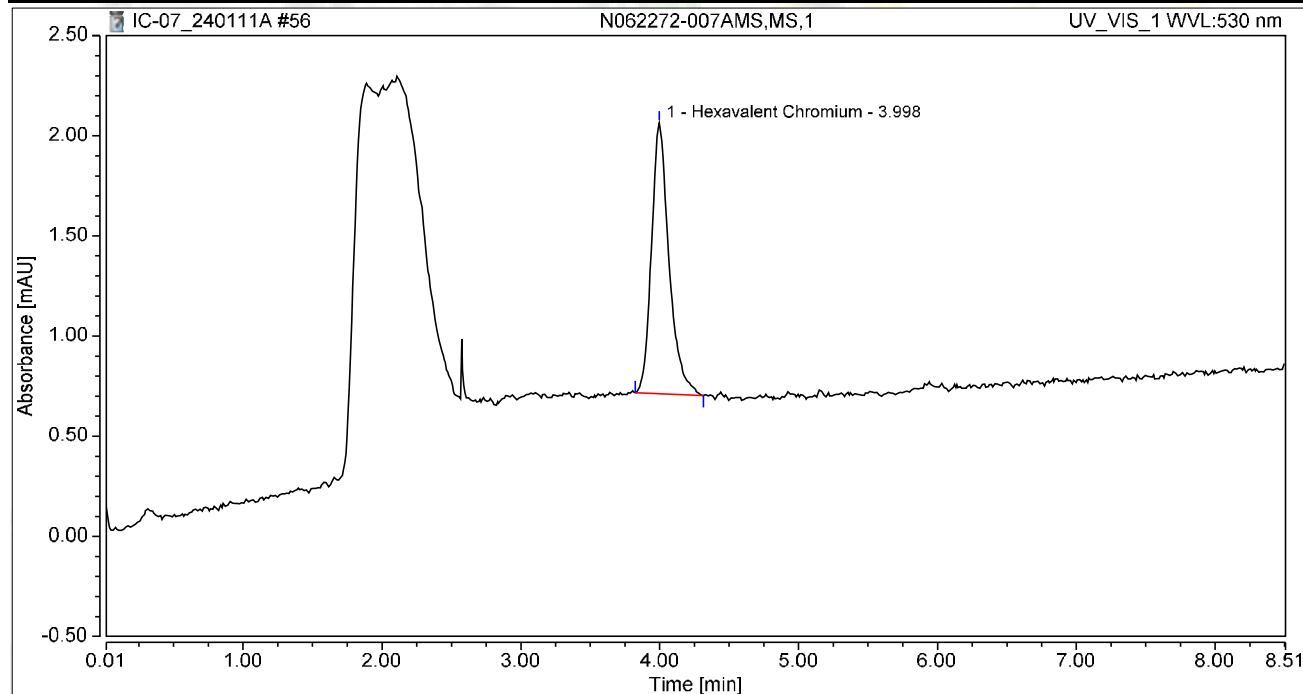
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-007AMS,MS,1	Run Time (min): 8.49
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:10	Sample Weight: 1.0000

Chromatogram

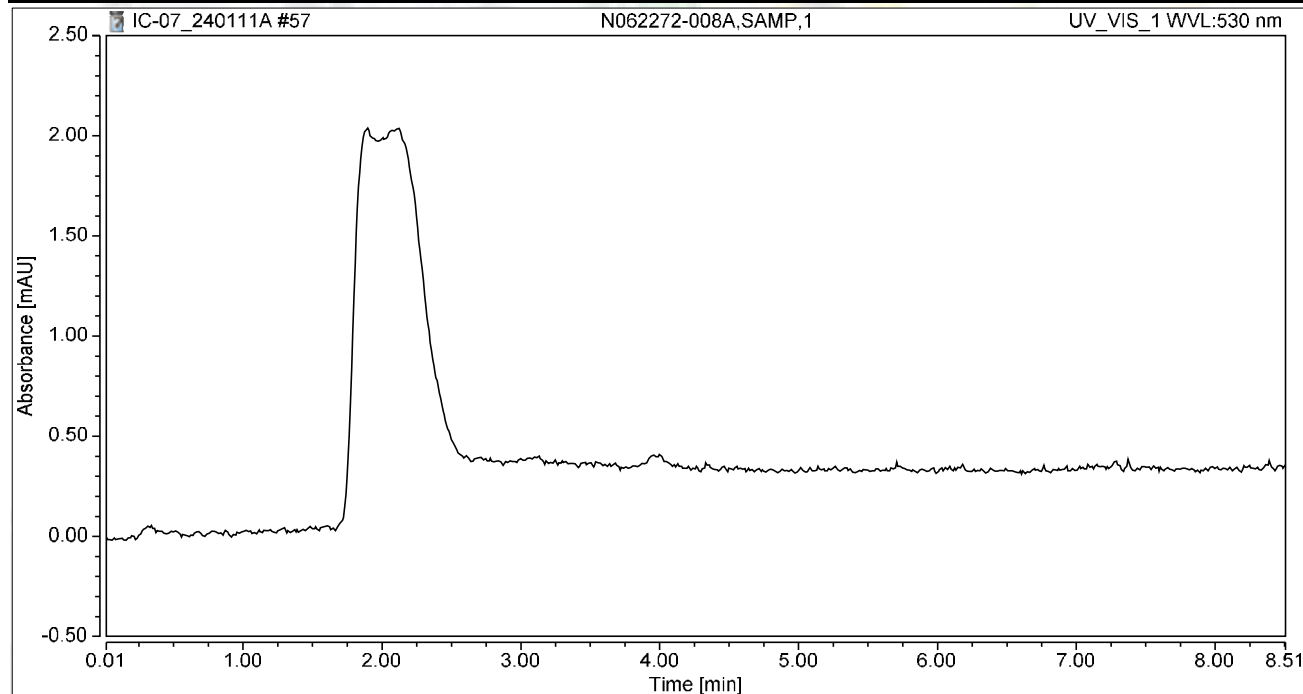


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.198	1.352	100.00	100.00	0.9504
Total:			0.198	1.352	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-008A,SAMP,1	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:21	Sample Weight: 1.0000

Chromatogram

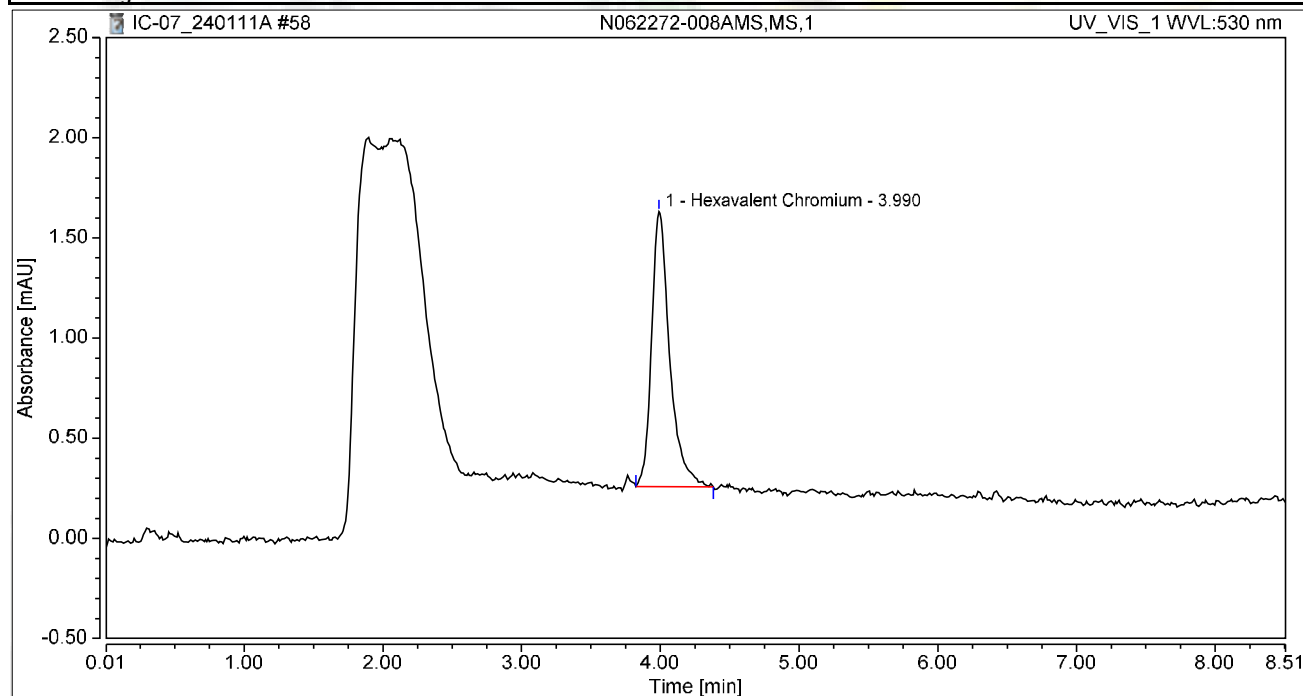


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-008AMS,MS,1	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:31	Sample Weight: 1.0000

Chromatogram



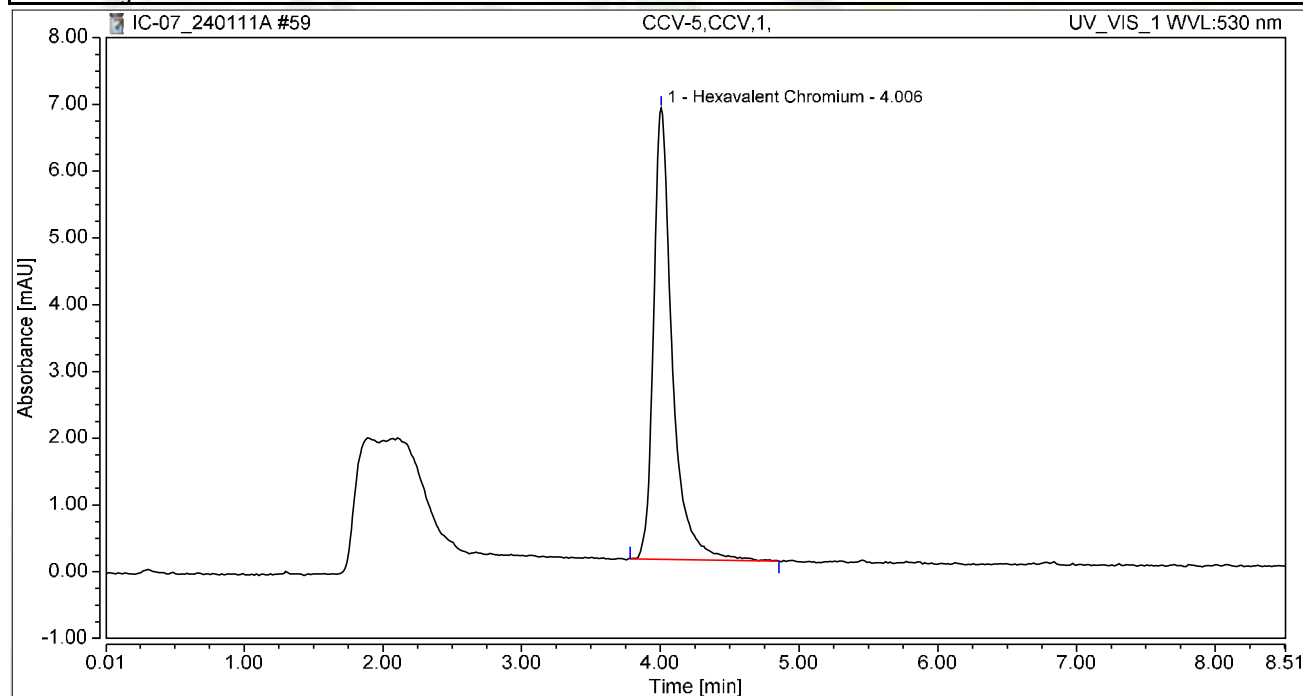
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.209	1.373	100.00	100.00	1.0024
Total:			0.209	1.373	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 19:40	Sample Weight:	1.0000

Chromatogram



Integration Results

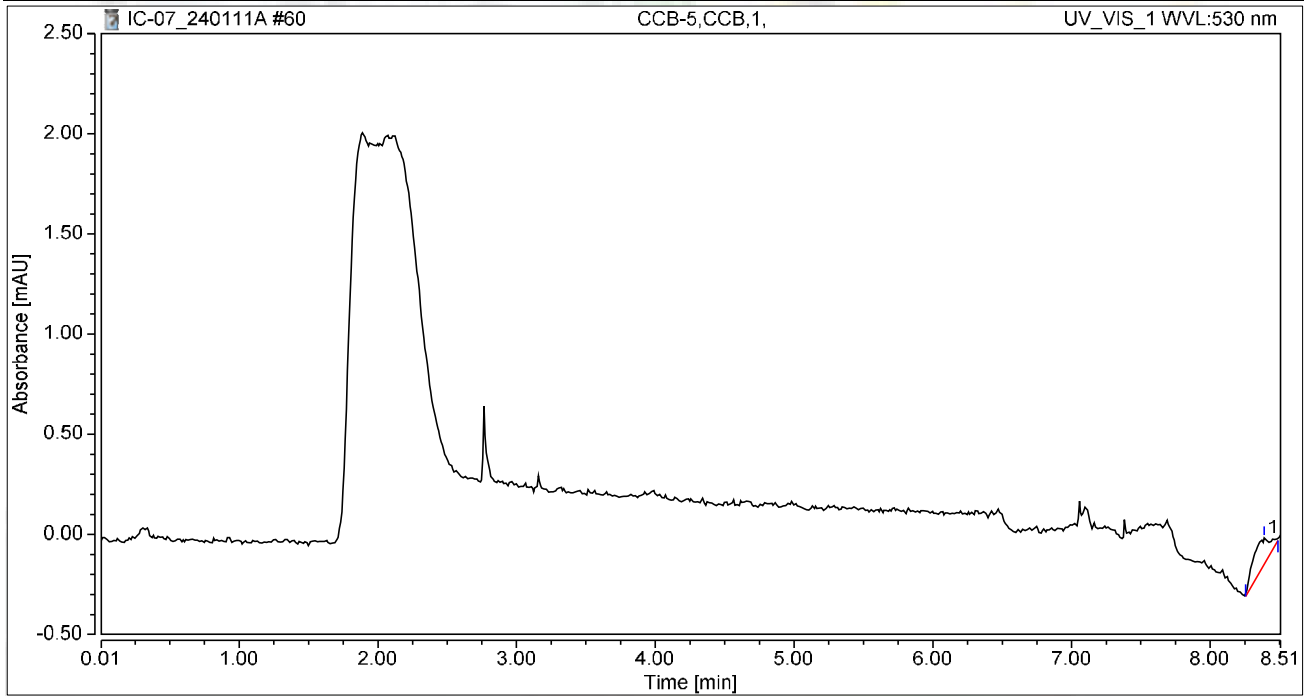
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.057	6.760	100.00	100.00	5.0814
Total:			1.057	6.760	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 19:50	Sample Weight:	1.0000

Chromatogram



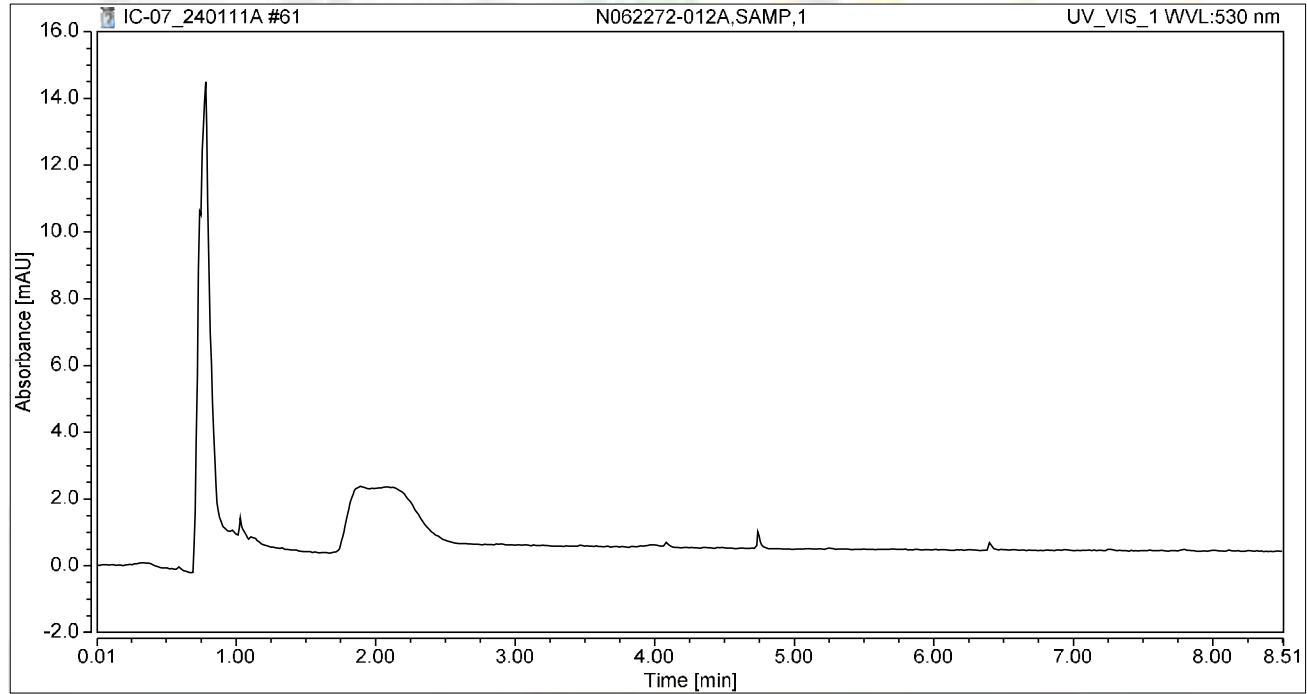
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		8.390	0.021	0.131	100.00	100.00	n.a.
Total:			0.021	0.131	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-012A,SAMP,1	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:59	Sample Weight: 1.0000

Chromatogram



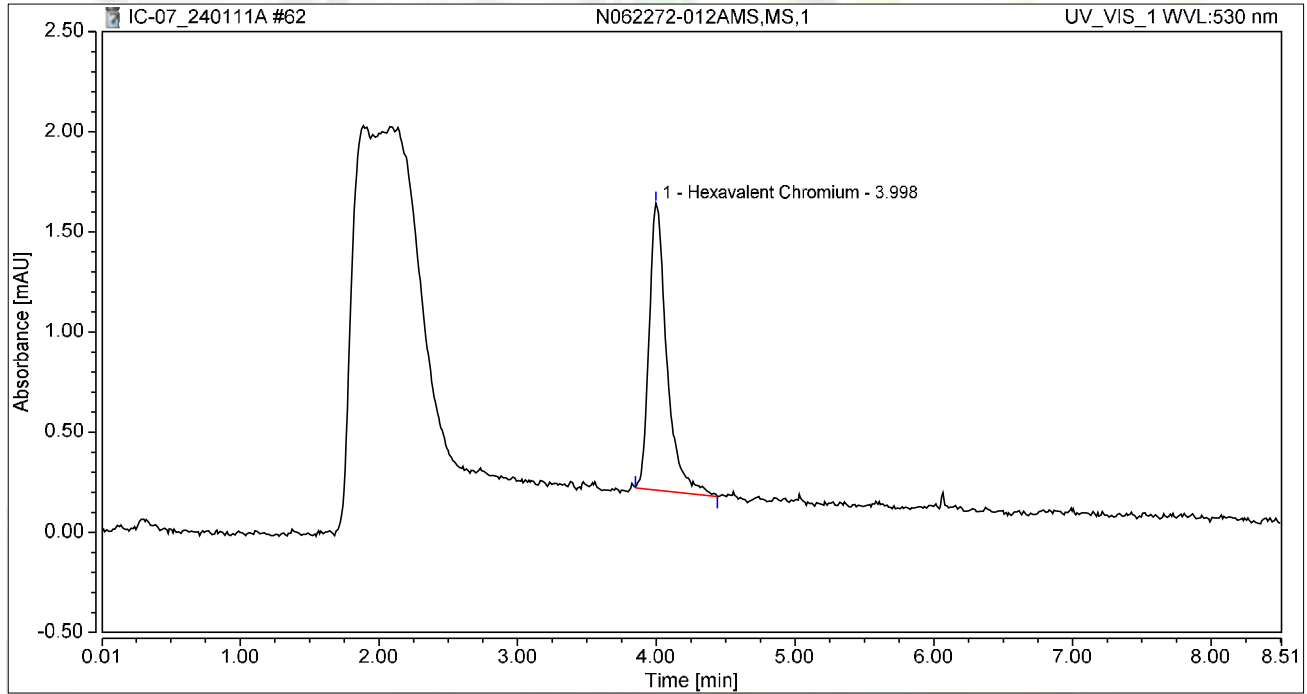
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:09	Sample Weight:	1.0000

Chromatogram



Integration Results

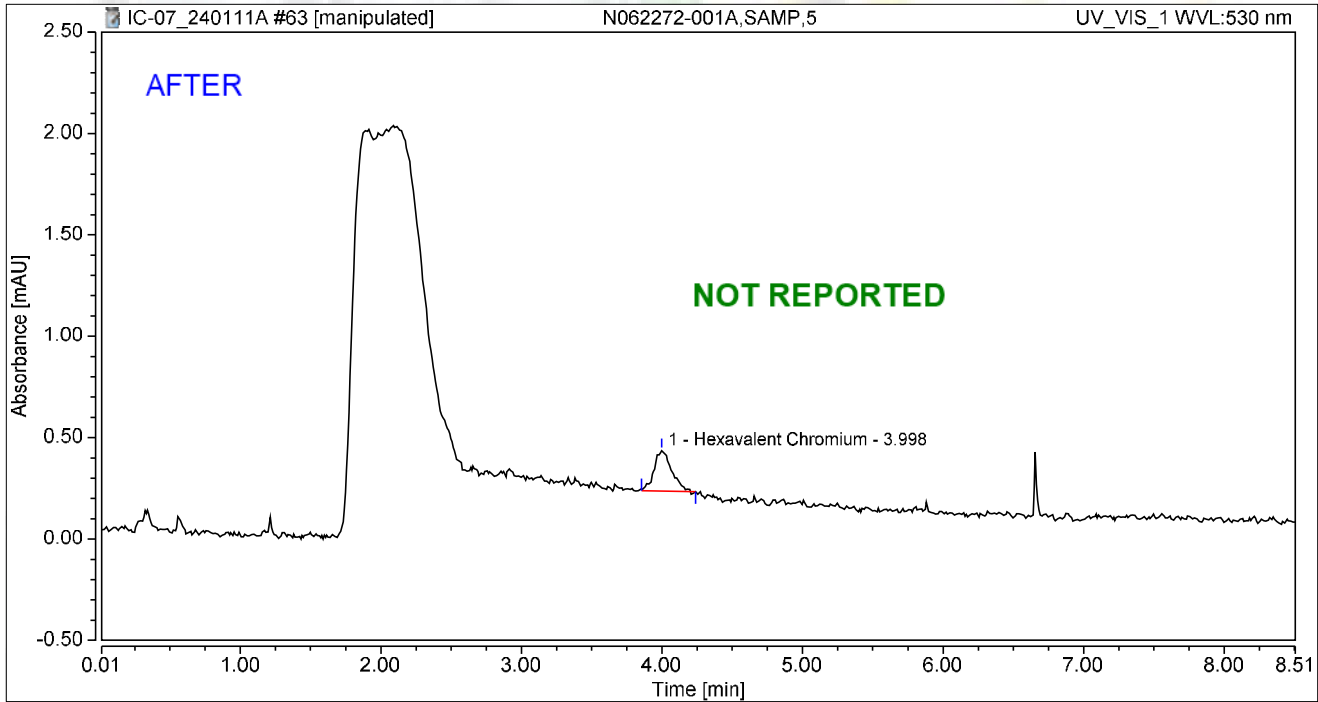
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.212	1.431	100.00	100.00	1.0185
Total:			0.212	1.431	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

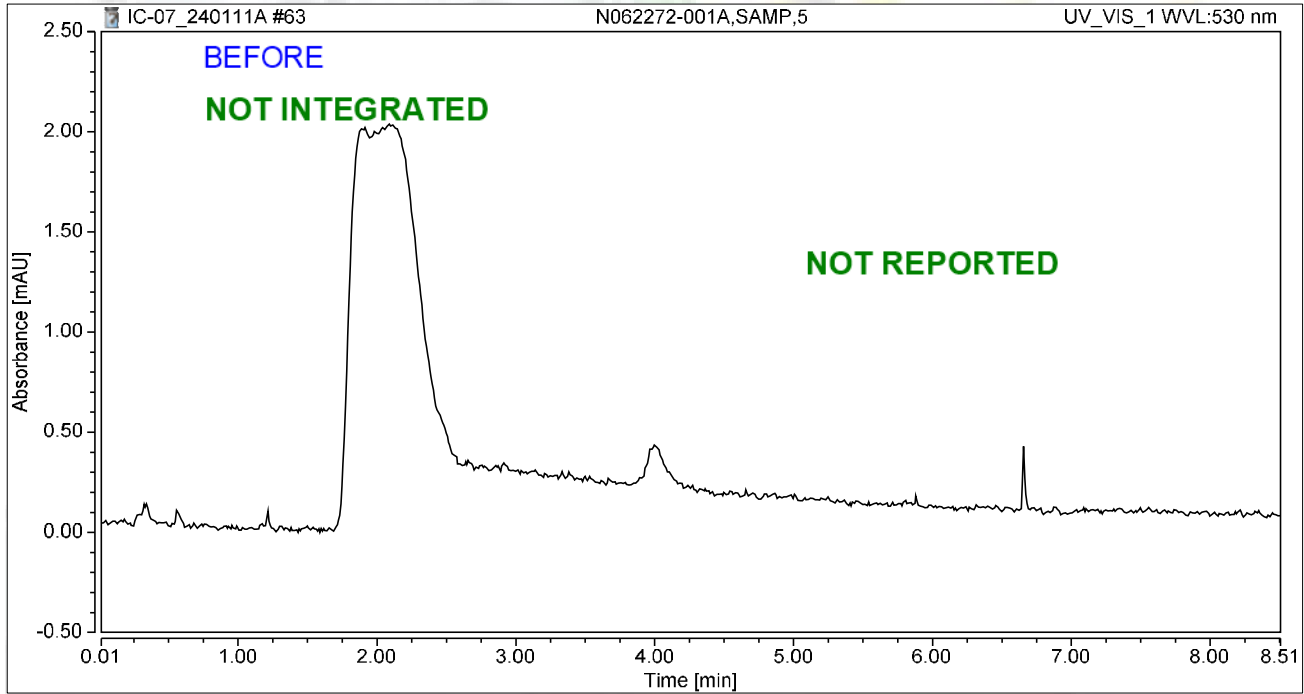
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.029	0.199	100.00	100.00	0.1387
Total:			0.029	0.199	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:18	Sample Weight:	1.0000

Chromatogram



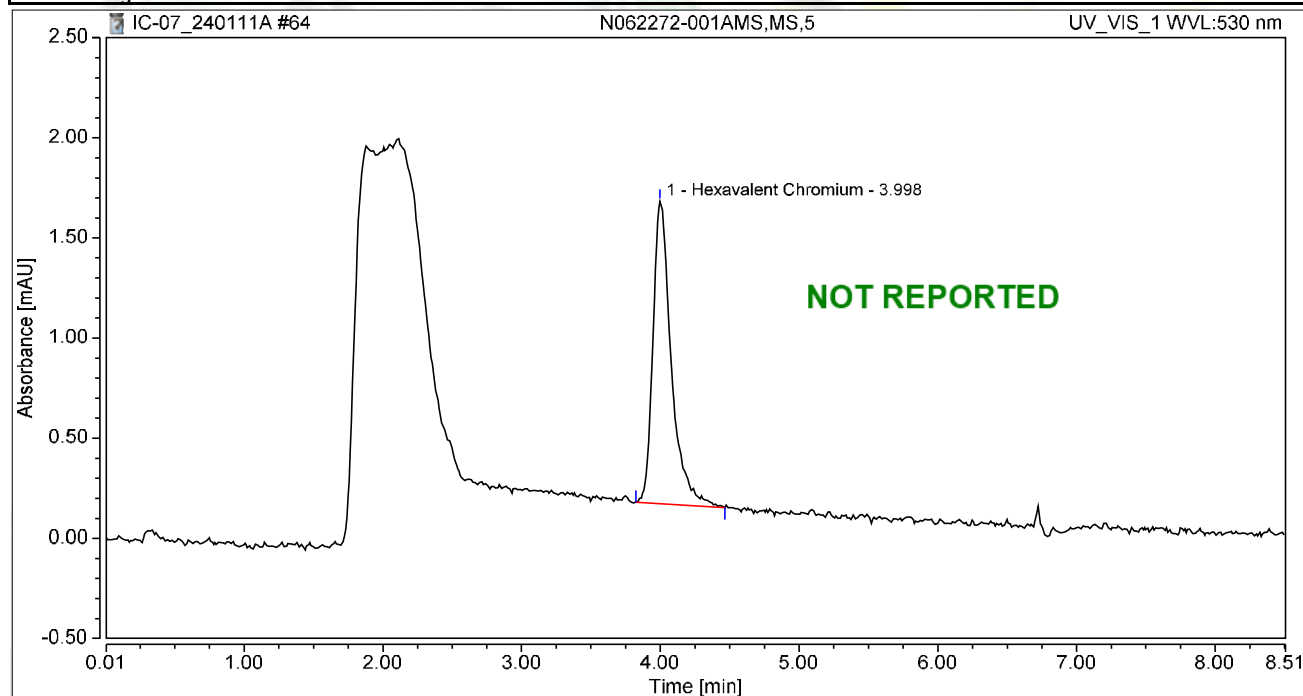
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:28	Sample Weight: 1.0000

Chromatogram

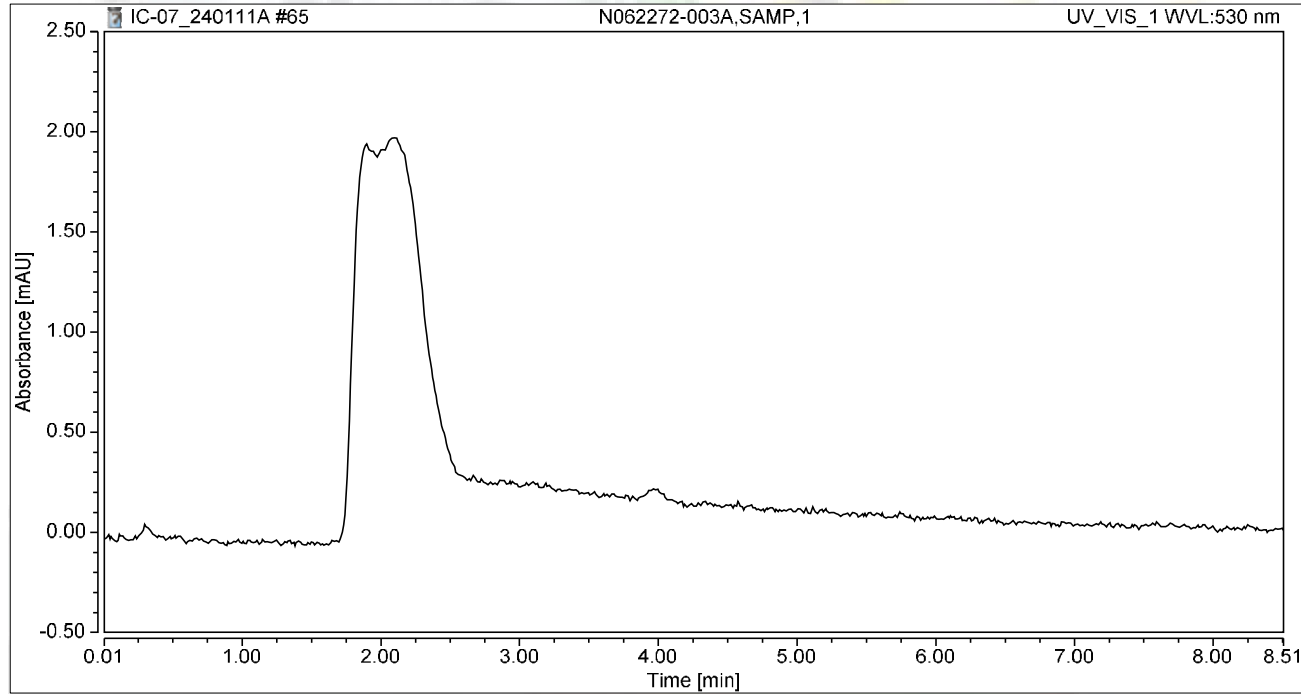


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.232	1.511	100.00	100.00	1.1146
Total:			0.232	1.511	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-003A,SAMP,1	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:37	Sample Weight: 1.0000

Chromatogram

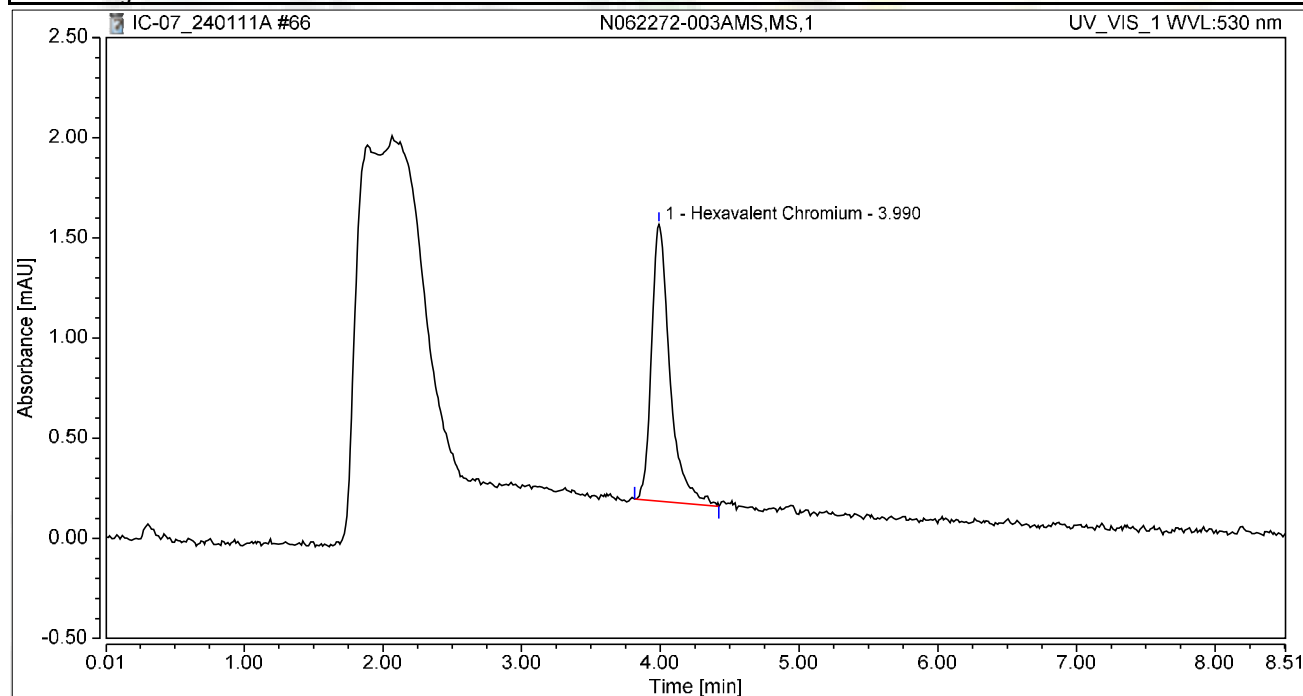


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:47	Sample Weight: 1.0000

Chromatogram

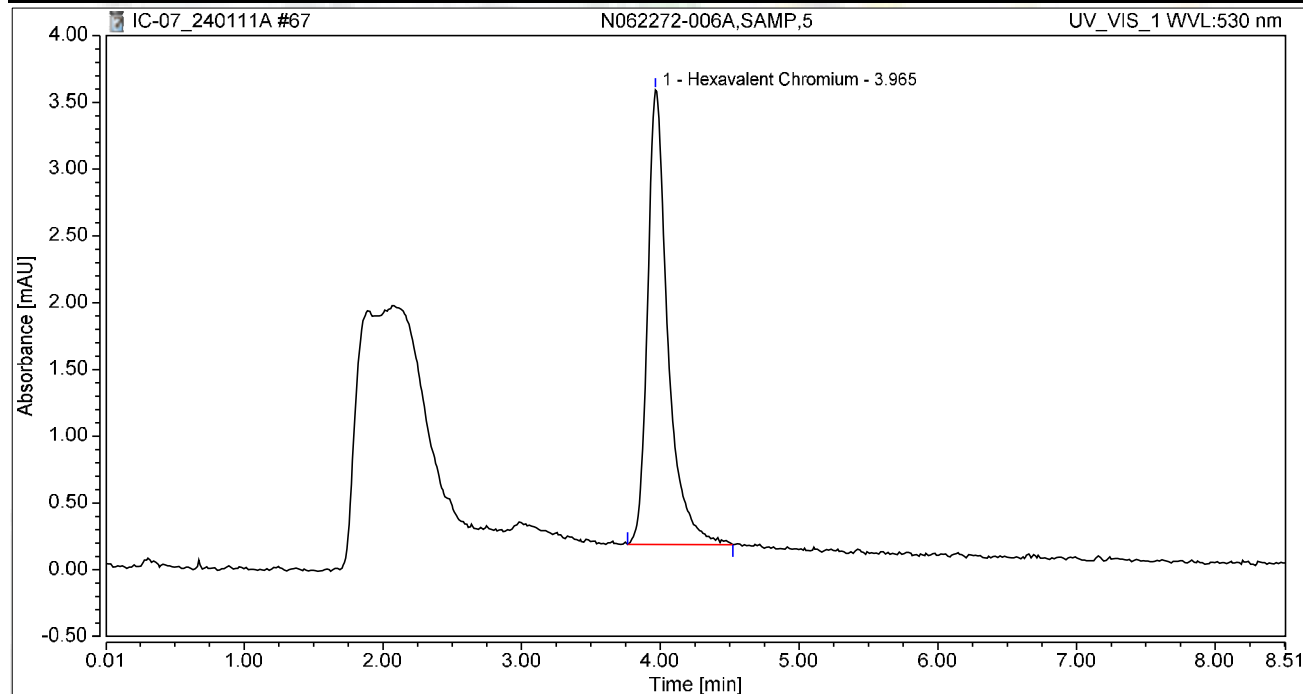


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.214	1.383	100.00	100.00	1.0262
Total:			0.214	1.383	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-006A,SAMP,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:56	Sample Weight: 1.0000

Chromatogram



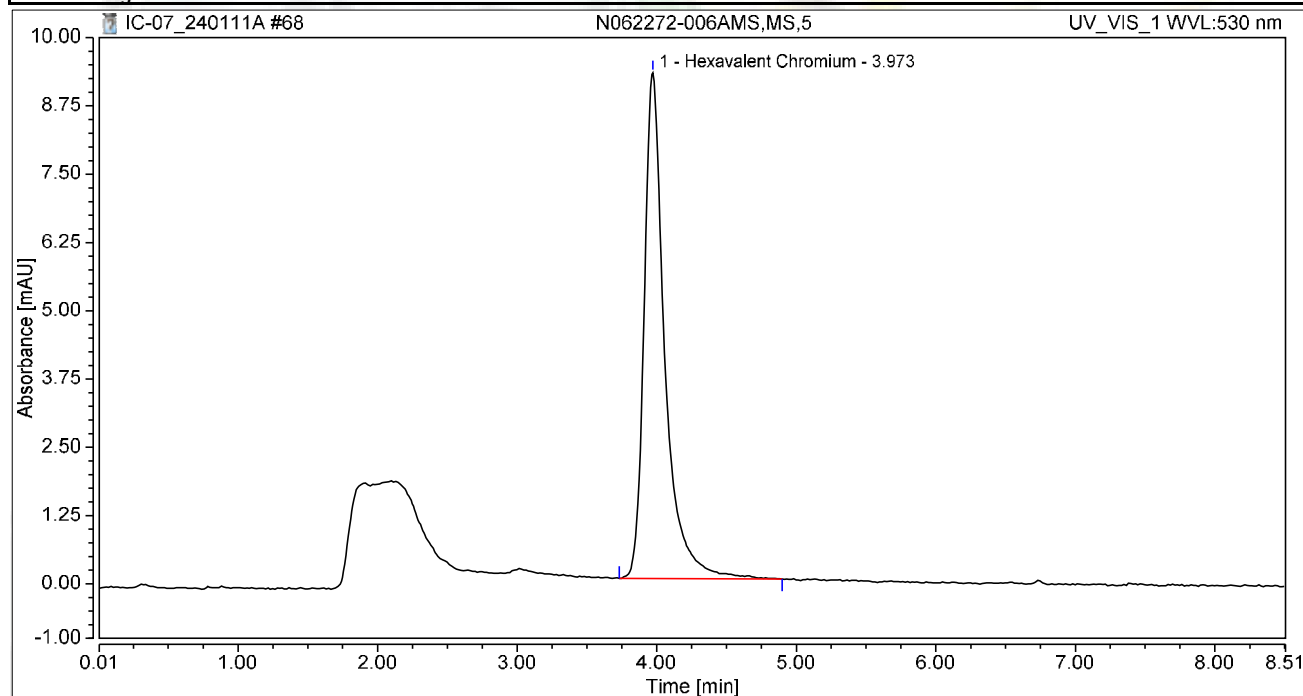
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.578	3.402	100.00	100.00	2.7754
Total:			0.578	3.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:05	Sample Weight:	1.0000

Chromatogram



Integration Results

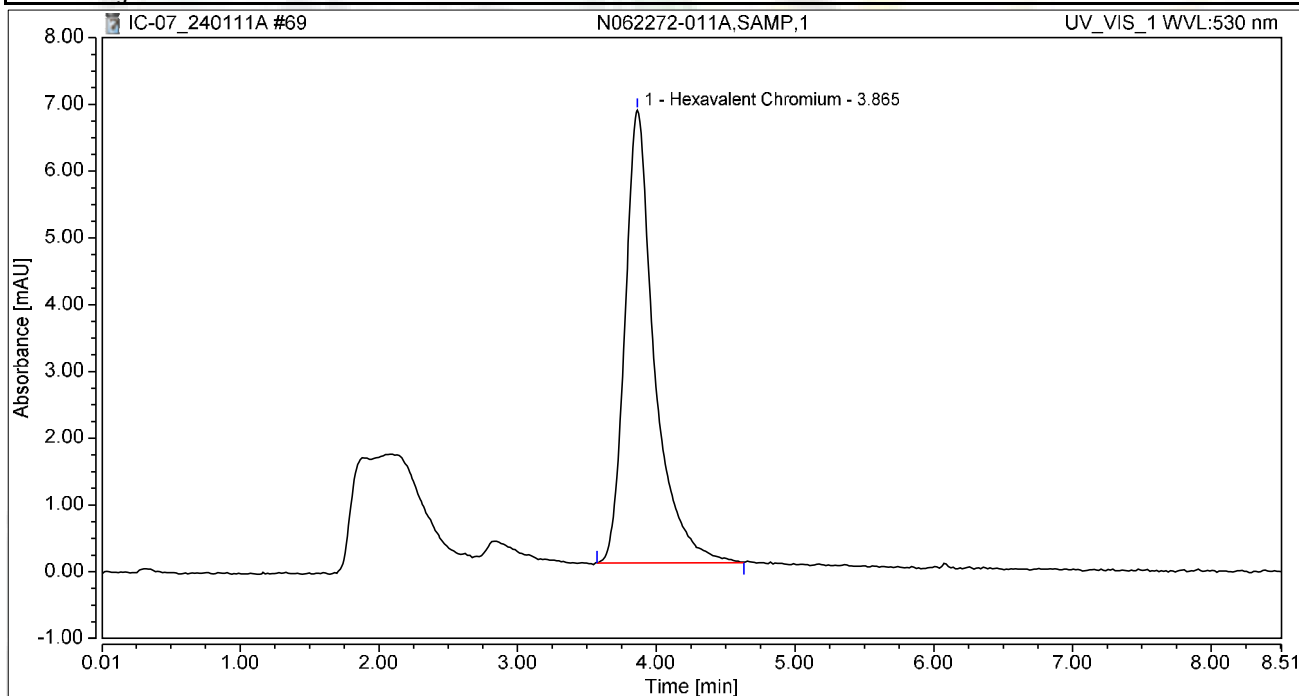
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.594	9.261	100.00	100.00	7.6585
Total:			1.594	9.261	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:15	Sample Weight:	1.0000

Chromatogram



Integration Results

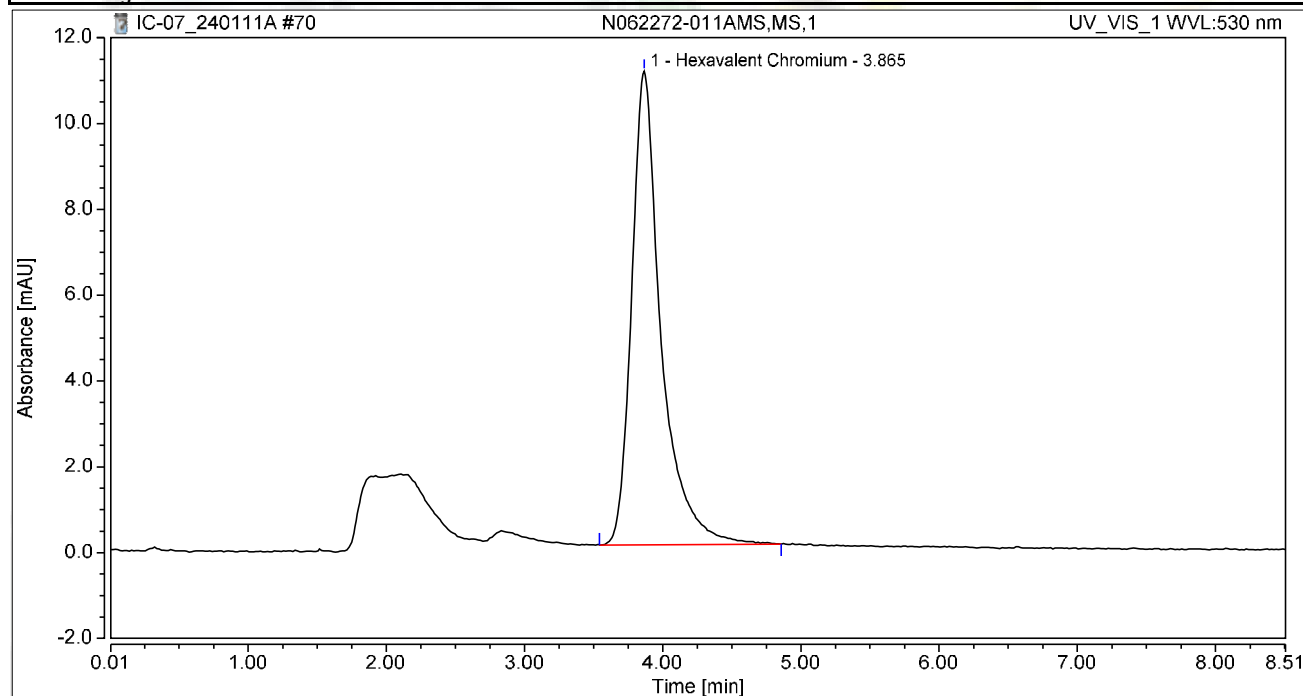
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	1.662	6.779	100.00	100.00	7.9874
Total:			1.662	6.779	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:24	Sample Weight:	1.0000

Chromatogram



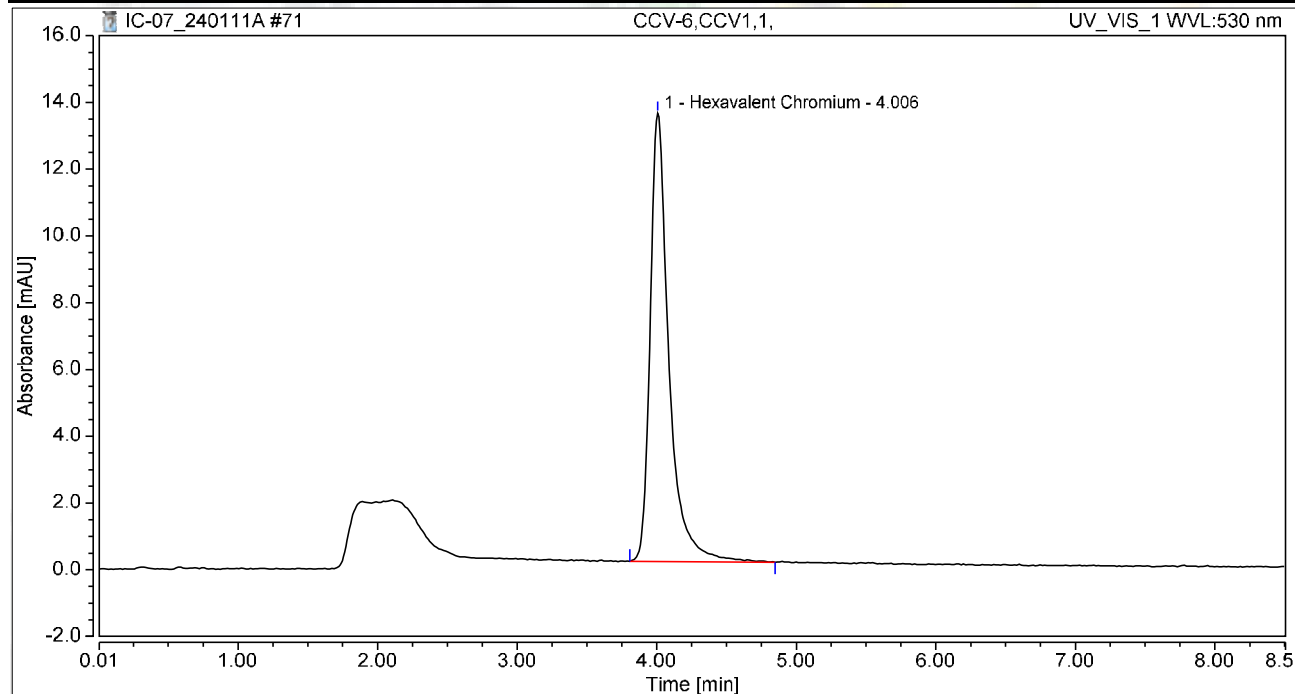
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	2.724	11.036	100.00	100.00	13.0912
Total:			2.724	11.036	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-6,CCV1,1,	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 21:34	Sample Weight: 1.0000

Chromatogram



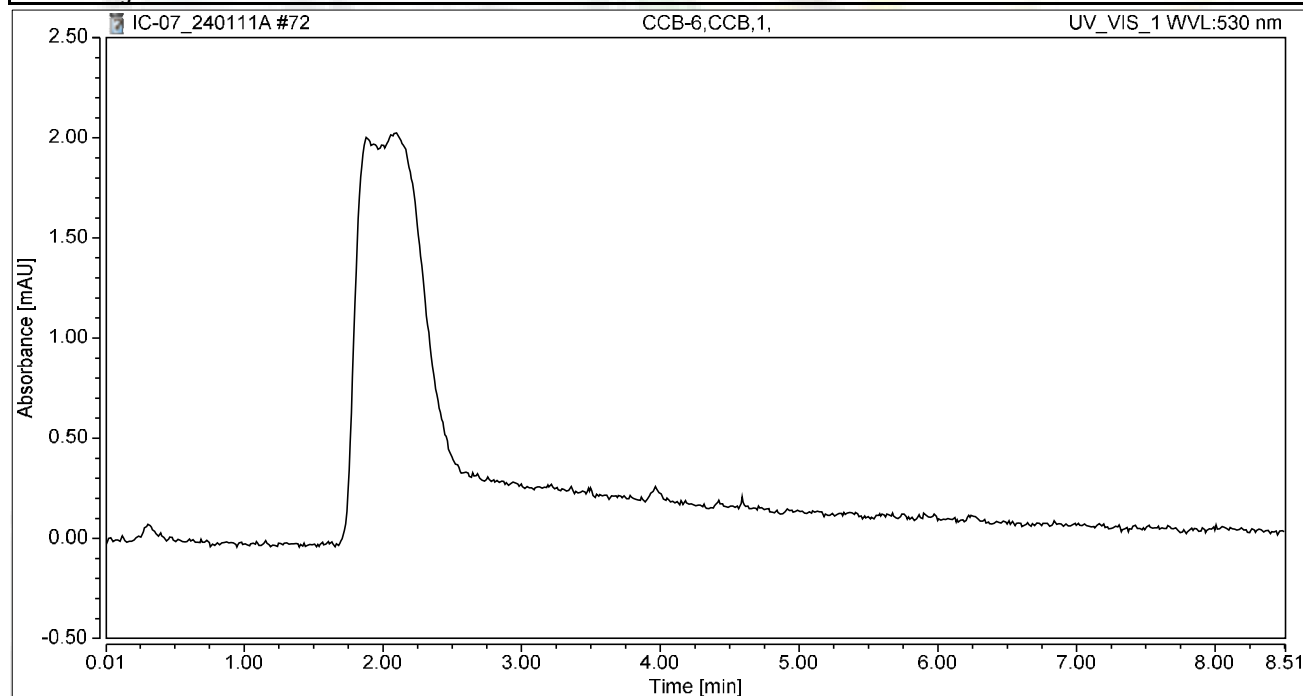
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.093	13.419	100.00	100.00	10.0609
Total:			2.093	13.419	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:43	Sample Weight:	1.0000

Chromatogram



Integration Results

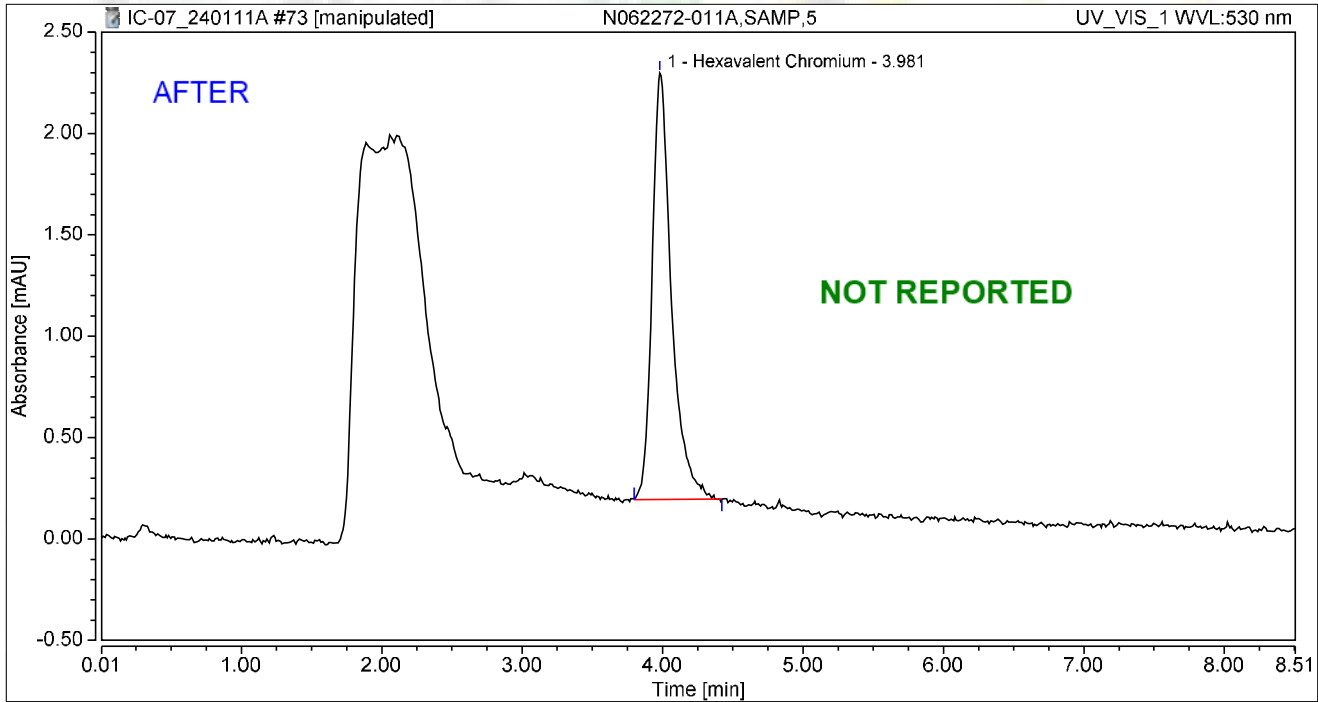
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

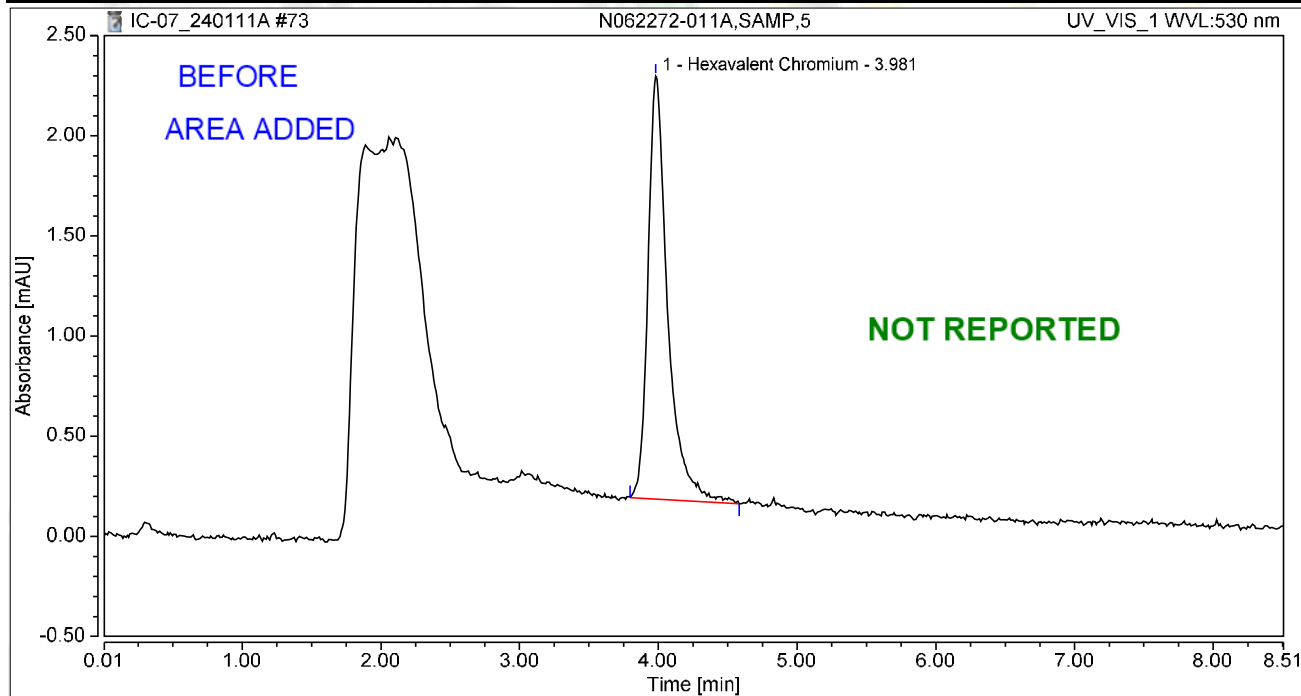
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.335	2.103	100.00	100.00	1.6097
Total:			0.335	2.103	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:53	Sample Weight:	1.0000

Chromatogram



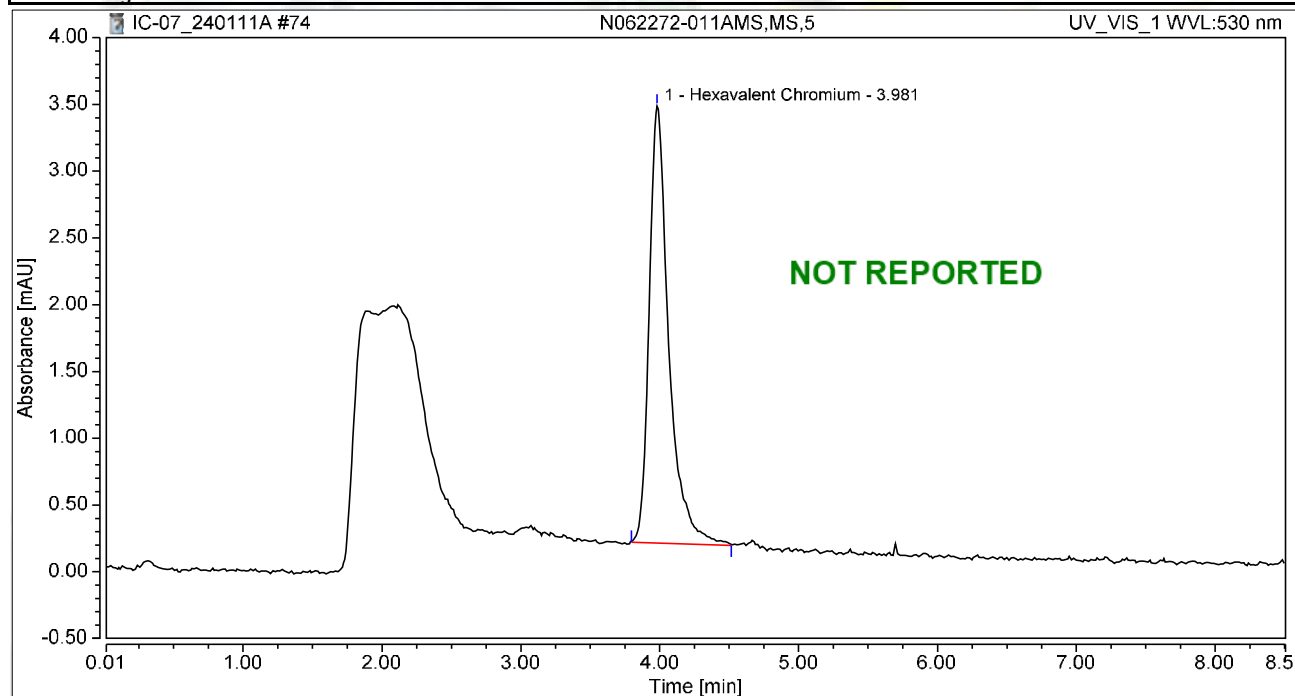
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.347	2.112	100.00	100.00	1.6677
Total:			0.347	2.112	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011AMS,MS,5	Run Time (min): 8.49
Vial Number:	19	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 22:02	Sample Weight: 1.0000

Chromatogram

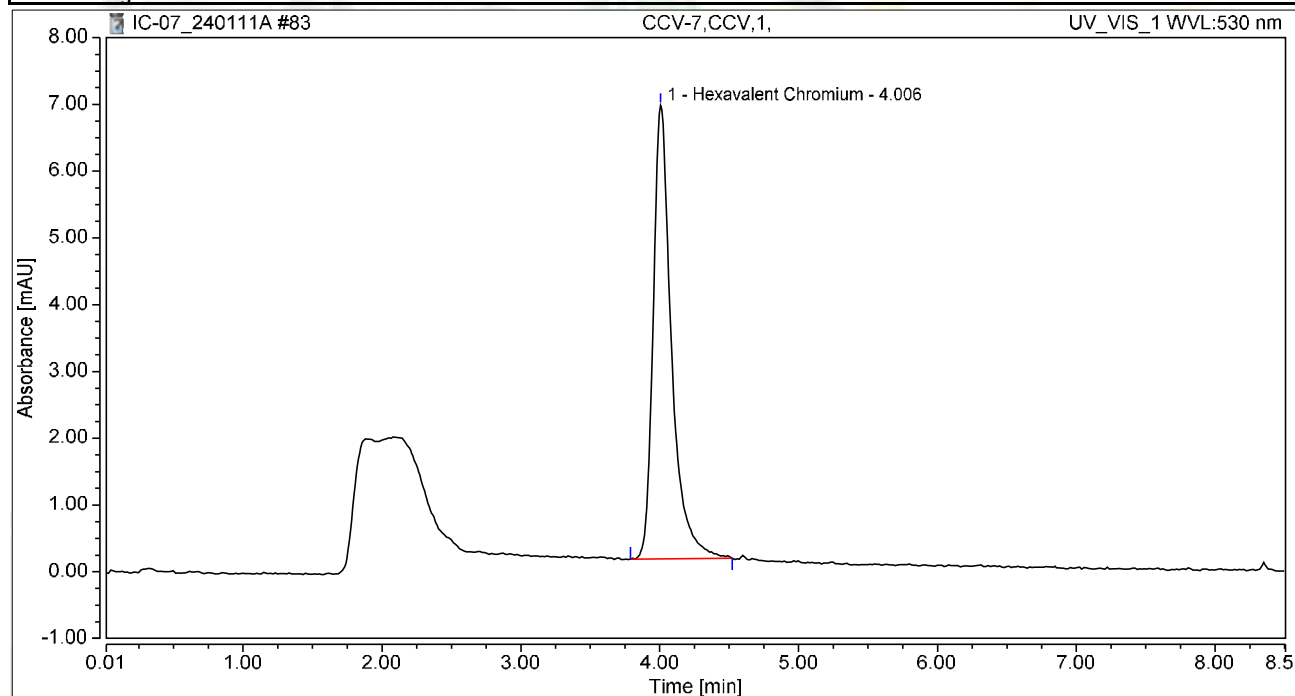


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.534	3.273	100.00	100.00	2.5644
Total:			0.534	3.273	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-7,CCV,1,	Run Time (min): 8.49
Vial Number:	28	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 23:27	Sample Weight: 1.0000

Chromatogram

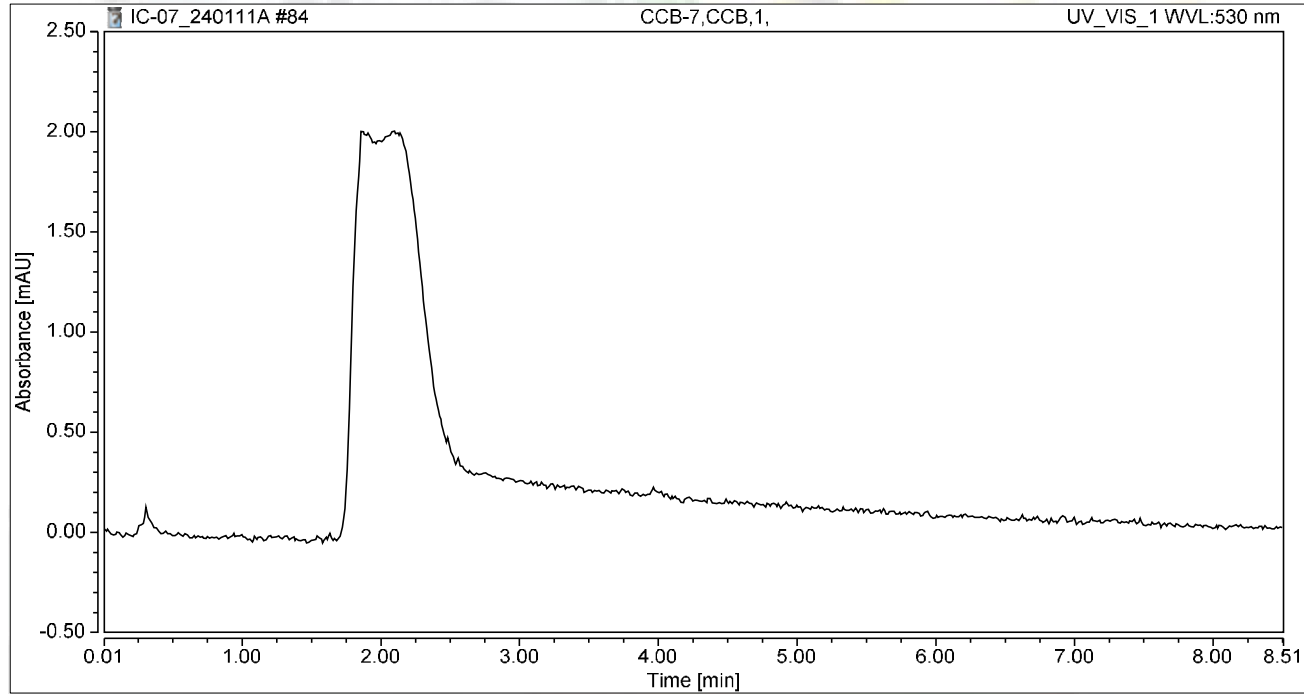


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.036	6.792	100.00	100.00	4.9775
Total:			1.036	6.792	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-7,CCB,1,	Run Time (min): 8.50
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 23:37	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

1/16/2024

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180206
 ASSET # N062241 / N062243

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 1/9/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

3

Detection of Sulfate in CCB1/2/4 was >1/2PQL. However, N062241 samples were >5X the CCB detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 1/21/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062241-002B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.1187 * 10 \\ &= 1.187\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 1.2$$

Reviewed by:

MRecha 1/24/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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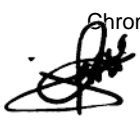
Sequence: IC-08_240102A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
12	N062100-001A,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062054-002A,SAMP,5	Unknown	14	1000.0	Anions Default2	EPA 300_0_240102	Finished
14	N062054-001A,SAMP,5	Unknown	15	1000.0	Anions Default2	EPA 300_0_240102	Finished
15	N062054-003A,SAMP,5	Unknown	16	1000.0	Anions Default2	EPA 300_0_240102	Finished
16	N062054-004A,SAMP,5	Unknown	17	1000.0	Anions Default2	EPA 300_0_240102	Finished
17	N062054-005A,SAMP,5	Unknown	18	1000.0	Anions Default2	EPA 300_0_240102	Finished
18	N062054-006A,SAMP,5	Unknown	19	1000.0	Anions Default2	EPA 300_0_240102	Finished
19	BLANK	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
22	N062100-001ADUP,DUP,10	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062100-001AMS,MS,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062100-001AMSD,MSD,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062054-002AMS,MS,5	Unknown	26	1000.0	Anions Default2	EPA 300_0_240102	Finished
26	N062054-002AMSD,MSD,5	Unknown	27	1000.0	Anions Default2	EPA 300_0_240102	Finished
27	N062054-001ADUP,DUP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240102	Finished
28	BLANK	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
29	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
30	CCV-2,CCV,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
31	CCB-2,CCB,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:



Sequence: IC-08_240102A
Operator: IC-05

Page 2 of 2
Printed: 1/10/2024 6:39:39 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	ICV,ICV,1	1/2/2024 1:57:20 PM	ICV, IWST-231228F
9	ICB,ICB,1	1/2/2024 2:12:38 PM	CCB
10	MB-H2O,MBLK,1	1/2/2024 2:27:56 PM	MB
11	LCS-H2O,LCS,1	1/2/2024 2:43:13 PM	LCS, IWST-231228F
12	N062100-001A,SAMP,10	1/2/2024 3:09:01 PM	SAMP,1>10mL,
13	N062054-002A,SAMP,5	1/2/2024 3:46:10 PM	SAMP,2>10mL,
14	N062054-001A,SAMP,5	1/2/2024 4:08:28 PM	SAMP,2>10mL,
15	N062054-003A,SAMP,5	1/2/2024 4:30:47 PM	SAMP,2>10mL,
16	N062054-004A,SAMP,5	1/2/2024 4:53:05 PM	SAMP,2>10mL,
17	N062054-005A,SAMP,5	1/2/2024 5:15:23 PM	SAMP,2>10mL,
18	N062054-006A,SAMP,5	1/2/2024 5:37:42 PM	SAMP,2>10mL,
19	BLANK	1/2/2024 5:59:59 PM	BLANK
20	CCV-1,CCV,1	1/2/2024 6:15:17 PM	CCV, IWST-231228E
21	CCB-1,CCB,1	1/2/2024 6:30:36 PM	CCB
22	N062100-001ADUP,DUP,10	1/2/2024 6:45:54 PM	DUP,1>10mL,
23	N062100-001AMS,MS,10	1/2/2024 7:01:13 PM	MS,1>10mL,
24	N062100-001AMSD,MSD,10	1/2/2024 7:16:31 PM	MSD,1>10mL,
25	N062054-002AMS,MS,5	1/2/2024 7:31:49 PM	MS,2>10mL,
26	N062054-002AMSD,MSD,5	1/2/2024 7:54:07 PM	MSD,2>10mL,
27	N062054-001ADUP,DUP,5	1/2/2024 8:16:26 PM	DUP,2>10mL,
28	BLANK	1/2/2024 8:38:44 PM	BLANK
29	BLANK	1/2/2024 8:54:02 PM	BLANK
30	CCV-2,CCV,1	1/2/2024 9:09:19 PM	CCV, IWST-231228E
31	CCB-2,CCB,1	1/2/2024 9:24:38 PM	CCB

Sequence: IC-08_240109A
Operator: IC-05

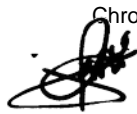
Page 1 of 4
Printed: 1/9/2024 7:11:37 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 42

Created: 1/8/2024 11:50:50 AM by IC-05
Last Update: 1/9/2024 12:23:16 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240102	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240102	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240102	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062243-002B,SAMP,5	Unknown	6	1000.0	Anions Default	EPA 300_0_240102	Finished
14	N062243-003B,SAMP,5	Unknown	7	1000.0	Anions Default	EPA 300_0_240102	Finished
15	N062241-009B,SAMP,10	Unknown	8	1000.0	Anions Default	EPA 300_0_240102	Finished
16	N062241-001B,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
17	N062241-002B,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
18	N062241-003B,SAMP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
19	N062241-004B,SAMP,10	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
20	N062241-006B,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCV-2,CCV,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
22	CCB-2,CCB,1	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062241-007B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062241-008B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062241-009BMS,MS,10	Unknown	15	1000.0	Anions Default	EPA 300_0_240102	Finished
26	N062241-009BMSD,MSD,10	Unknown	16	1000.0	Anions Default	EPA 300_0_240102	Finished
27	N062243-002BDUP,DUP,5	Unknown	17	1000.0	Anions Default	EPA 300_0_240102	Finished
28	N062241-009B,SAMP,50	Unknown	18	1000.0	Anions Default	EPA 300_0_240102	Finished
29	N062241-009BMS,MS,50	Unknown	19	1000.0	Anions Default	EPA 300_0_240102	Finished
30	N062241-009BMSD,MSD,50	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
31	N062241-001B,SAMP,50	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
32	N062241-002B,SAMP,50	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
33	CCV-3,CCV,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
34	CCB-3,CCB,1	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
35	N062241-003B,SAMP,50	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
36	N062241-004B,SAMP,50	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
37	N062241-006B,SAMP,100	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
38	N062241-007B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
39	N062241-008B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
40	N062241-001BDUP,DUP,50	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
41	CCV-4,CCV,1	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:



Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)

1/9/2024

IC8 RBA 1/9/2024 7:12:09 PM

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Sequence: IC-08_240109A
Operator: IC-05

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Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 42

Created: 1/8/2024 11:50:50 AM by IC-05
Last Update: 1/9/2024 12:23:16 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	BLANK	1/9/2024 9:20:23 AM	BLANK
9	CCV-1,CCV,1	1/9/2024 9:35:40 AM	CCV, IWST-240105A
10	CCB-1,CCB,1	1/9/2024 9:50:59 AM	CCB
11	MB-H2O,MBLK,1	1/9/2024 10:06:17 AM	MB
12	LCS-H2O,LCS,1	1/9/2024 10:21:35 AM	LCS, IWST-240105B
13	N062243-002B,SAMP,5	1/9/2024 11:17:35 AM	SAMP,2>10mL,
14	N062243-003B,SAMP,5	1/9/2024 11:32:53 AM	SAMP,2>10mL,
15	N062241-009B,SAMP,10	1/9/2024 11:48:10 AM	SAMP,1>10mL,
16	N062241-001B,SAMP,10	1/9/2024 12:03:28 PM	SAMP,1>10mL,
17	N062241-002B,SAMP,10	1/9/2024 12:18:47 PM	SAMP,1>10mL,
18	N062241-003B,SAMP,10	1/9/2024 12:34:05 PM	SAMP,1>10mL,
19	N062241-004B,SAMP,10	1/9/2024 12:49:23 PM	SAMP,1>10mL,
20	N062241-006B,SAMP,10	1/9/2024 1:04:42 PM	SAMP,1>10mL,
21	CCV-2,CCV,1	1/9/2024 1:20:00 PM	CCV, IWST-240105A
22	CCB-2,CCB,1	1/9/2024 1:35:18 PM	CCB
23	N062241-007B,SAMP,10	1/9/2024 1:50:36 PM	SAMP,1>10mL,
24	N062241-008B,SAMP,10	1/9/2024 2:05:54 PM	SAMP,1>10mL,
25	N062241-009BMS,MS,10	1/9/2024 2:21:12 PM	MS,1>10mL,
26	N062241-009BMSD,MSD,10	1/9/2024 2:36:30 PM	MSD,1>10mL,
27	N062243-002BDUP,DUP,5	1/9/2024 2:51:48 PM	DUP,2>10mL,
28	N062241-009B,SAMP,50	1/9/2024 3:07:06 PM	SAMP,0.2>10mL,
29	N062241-009BMS,MS,50	1/9/2024 3:22:24 PM	MS,0.2>10mL,
30	N062241-009BMSD,MSD,50	1/9/2024 3:37:42 PM	MSD,0.2>10mL,
31	N062241-001B,SAMP,50	1/9/2024 3:53:00 PM	SAMP,0.2>10mL,
32	N062241-002B,SAMP,50	1/9/2024 4:08:18 PM	SAMP,0.2>10mL,
33	CCV-3,CCV,1	1/9/2024 4:23:37 PM	CCV, IWST-240105A
34	CCB-3,CCB,1	1/9/2024 4:38:55 PM	CCB
35	N062241-003B,SAMP,50	1/9/2024 4:54:13 PM	SAMP,0.2>10mL,
36	N062241-004B,SAMP,50	1/9/2024 5:09:30 PM	SAMP,0.2>10mL,
37	N062241-006B,SAMP,100	1/9/2024 5:24:48 PM	SAMP,0.1>10mL,
38	N062241-007B,SAMP,50	1/9/2024 5:40:06 PM	SAMP,0.2>10mL,
39	N062241-008B,SAMP,50	1/9/2024 5:55:24 PM	SAMP,0.2>10mL,
40	N062241-001BDUP,DUP,50	1/9/2024 6:10:42 PM	DUP,0.2>10mL,
41	CCV-4,CCV,1	1/9/2024 6:26:00 PM	CCV, IWST-240105A

Sequence: IC-08_240109A
Operator: IC-05

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Printed: 1/9/2024 7:11:37 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 42
Created: 1/8/2024 11:50:50 AM by IC-05
Last Update: 1/9/2024 12:23:16 PM by IC-05

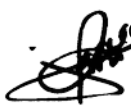
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	CCB-4,CCB,1	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished

Sequence: IC-08_240109A
Operator: IC-05

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Printed: 1/9/2024 7:11:37 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 42
Created: 1/8/2024 11:50:50 AM by IC-05
Last Update: 1/9/2024 12:23:16 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	CCB-4,CCB,1	1/9/2024 6:41:18 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0136	0.0830	0.1675	0.4225	0.8784	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0337	0.2030	0.4063	1.0376	2.1764	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: ICV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5611419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.975	0.50	4.000	0	99.4	90	110				
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Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.002	0.50	4.000	0	100	90	110				
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Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.968	0.50	4.000	0	99.2	90	110				
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Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.965	0.50	4.000	0	99.1	90	110				
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Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.958	0.50	4.000	0	98.9	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: ICV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5611394						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.258	0.050	1.250	0	101	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611394						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.245	0.050	1.250	0	99.6	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611408						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.235	0.050	1.250	0	98.8	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611415						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.227	0.050	1.250	0	98.2	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCV	Batch ID: R180206	TestNo: EPA 300.0		Analysis Date: 1/9/2024	SeqNo: 5611417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.232	0.050	1.250	0	98.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: ICB	Batch ID: R180206	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5611420							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCB	Batch ID: R180206	TestNo: EPA 300.0	Analysis Date: 1/9/2024	SeqNo: 5611422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCB	Batch ID: R180206	TestNo: EPA 300.0	Analysis Date: 1/9/2024	SeqNo: 5611426							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCB	Batch ID: R180206	TestNo: EPA 300.0	Analysis Date: 1/9/2024	SeqNo: 5611433							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180206						
Client ID: CCB	Batch ID: R180206	TestNo: EPA 300.0	Analysis Date: 1/9/2024	SeqNo: 5611441							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.880	
CCV-1	Nitrate 6.897	
CCV-2	Nitrate 6.937	
CCV-3	Nitrate 6.950	
CCV-4	Nitrate 6.930	

Average 6.929

Applied RT Window 6.729 - 7.129

MB-R180206_NO3	Nitrate	N.A.	N.A.
LCS-R180206_NO3	Nitrate	6.877	PASS
N062241-009B	Nitrate	N.A.	N.A.
N062241-001B	Nitrate	6.964	PASS
N062241-002B	Nitrate	6.923	PASS
N062241-003B	Nitrate	N.A.	N.A.
N062241-004B	Nitrate	6.920	PASS
N062241-006B	Nitrate	N.A.	N.A.
N062241-007B	Nitrate	6.943	PASS
N062241-008B	Nitrate	N.A.	N.A.
N062241-009BMS	Nitrate	6.913	PASS
N062241-009BMSD	Nitrate	6.907	PASS
N062243-002BDUP	Nitrate	6.944	PASS

Reviewed by:

d/Rocha 1/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/9/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.610	
CCV-1	Sulfate	10.570	
CCV-2	Sulfate	10.594	
CCV-3	Sulfate	10.600	
CCV-4	Sulfate	10.567	

Average 10.583

Applied RT Window 10.383 - 10.783

MB-R180206_SO4	Sulfate	10.684	PASS
LCS-R180206_SO4	Sulfate	10.567	PASS
N062241-009B	Sulfate	10.513	PASS
N062241-009BMS	Sulfate	10.440	PASS
N062241-009BMSD	Sulfate	10.507	PASS
N062241-001B	Sulfate	10.564	PASS
N062241-002B	Sulfate	10.584	PASS
N062241-003B	Sulfate	10.587	PASS
N062241-004B	Sulfate	10.554	PASS
N062241-006B	Sulfate	10.550	PASS
N062241-007B	Sulfate	10.550	PASS
N062241-008B	Sulfate	10.577	PASS
N062241-001BDUP	Sulfate	10.527	PASS

Reviewed by:

d/Rocha 1/24/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105920
 ASSET #: N062241

Instrument ID: ICP-03
 Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/10/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 01232024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062241-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.02778 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 27.78$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 28$$

Reviewed by:

d/Rocha 1/25/2024

% RSD SUMMARY



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RSD SUMMARY: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	5.1	15	PASS
Standard1	ICAL	1	Fe	0.02	2.95	15	PASS
Standard2	ICAL	1	Fe	0.05	0.71	15	PASS
Standard3	ICAL	1	Fe	2	0.19	15	PASS
Standard4	ICAL	1	Fe	5	0.09	15	PASS
Standard5	ICAL	1	Fe	7.5	0.09	15	PASS
Standard6	ICAL	1	Fe	10	0.07	15	PASS
Standard7	ICAL	1	Fe	20	0.15	15	PASS
ICV	ICV	1	Fe	10.03	0.53	15	PASS
ICB	ICB	1	Fe	0	38.64	15	<PQL
LLICV1	CCV1	1	Fe	0.02	1.35	20	PASS
ICSA1	ICSA	1	Fe	184.27	0.09	15	PASS
ICSAB1	ICSAB	1	Fe	165.05	0.08	15	PASS
RINSE	RINSE	1	Fe	0.01	2.53	15	PASS
MB-105920	MBLK	1	Fe	0	83.42	15	<PQL
LCS-105920	LCS	1	Fe	0.11	0.32	15	PASS
N062239-001B	SAMP	1	Fe	0.13	0.92	15	PASS
N062241-001C	SAMP	1	Fe	0.03	1.84	15	PASS
N062241-002C	SAMP	1	Fe	0.01	10.11	15	PASS
N062241-003C	SAMP	1	Fe	0.02	2.79	15	PASS
N062241-004C	SAMP	1	Fe	0.02	5.3	15	PASS
N062241-006C	SAMP	1	Fe	0.25	0.64	15	PASS
N062241-007C	SAMP	1	Fe	0.04	1.11	15	PASS
CCV1	CCV	1	Fe	9.98	0.27	15	PASS
CCB1	CCB	1	Fe	0	28.87	15	<PQL
N062241-008C	SAMP	1	Fe	0.05	0.33	15	PASS
N062241-009C	SAMP	1	Fe	0.04	2.46	15	PASS
N062241-009C	SAMP	5	Fe	0.01	4.75	15	PASS
N062241-009C-PS	PS	1	Fe	0.12	0.55	15	PASS
N062241-009CMS	MS	1	Fe	0.12	0.8	15	PASS
N062241-009CMSD	MSD	1	Fe	0.12	0.96	15	PASS
N062242-001B	SAMP	1	Fe	0.02	4.04	15	PASS
N062242-002B	SAMP	1	Fe	0.02	2.37	15	PASS
N062242-003B	SAMP	1	Fe	0.02	1.32	15	PASS
N062242-004B	SAMP	1	Fe	0.01	3.16	15	PASS
CCV2	CCV	1	Fe	10.04	0.14	15	PASS
CCB2	CCB	1	Fe	0	27.57	15	<PQL
N062243-002E	SAMP	1	Fe	0.02	2.21	15	PASS
N062243-003E	SAMP	1	Fe	0.01	1.99	15	PASS
N062244-003D	SAMP	1	Fe	0.04	1.43	15	PASS
CCV3	CCV	1	Fe	10.04	0.21	15	PASS
CCB3	CCB	1	Fe	0	149.6	15	<PQL

RSD SUMMARY: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA2	ICSA	1	Fe	184.21	0.1	15	PASS
ICSAB2	ICSAB	1	Fe	165.49	0.02	15	PASS
RINSE	RINSE	1	Fe	0.06	49.39	15	NR!
CCV4	CCV	1	Fe	10.09	0.25	15	PASS
CCB4	CCB	1	Fe	0	81.07	15	<PQL
CCV5	CCV	1	Fe	10.85	0.14	15	PASS
CCB5	CCB	1	Fe	0	45.73	15	<PQL
ICSA3	ICSA	1	Fe	199.68	0.21	15	PASS
ICSAB3	ICSAB	1	Fe	177	0.47	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240110A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/10/2024	12:36:02 PM
2	Standard1	ICAL	1	01/10/2024	12:40:14 PM
3	Standard2	ICAL	1	01/10/2024	12:44:27 PM
4	Standard3	ICAL	1	01/10/2024	12:49:11 PM
5	Standard4	ICAL	1	01/10/2024	12:52:56 PM
6	Standard5	ICAL	1	01/10/2024	12:56:41 PM
7	Standard6	ICAL	1	01/10/2024	01:00:24 PM
8	Standard7	ICAL	1	01/10/2024	01:04:05 PM
310	ICV	ICV	1	01/10/2024	01:13:01 PM
1	ICB	ICB	1	01/10/2024	01:16:52 PM
2	LLICV1	CCV1	1	01/10/2024	01:21:06 PM
9	ICSA1	ICSA	1	01/10/2024	01:25:50 PM
10	ICSAB1	ICSAB	1	01/10/2024	01:31:32 PM
299	RINSE	RINSE	1	01/10/2024	01:45:34 PM
11	MB-105920	MBLK	1	01/10/2024	01:50:24 PM
12	LCS-105920	LCS	1	01/10/2024	01:54:38 PM
13	N062239-001B	SAMP	1	01/10/2024	01:58:53 PM
14	N062241-001C	SAMP	1	01/10/2024	02:04:41 PM
15	N062241-002C	SAMP	1	01/10/2024	02:10:37 PM
16	N062241-003C	SAMP	1	01/10/2024	02:16:34 PM
17	N062241-004C	SAMP	1	01/10/2024	02:22:23 PM
18	N062241-006C	SAMP	1	01/10/2024	02:27:11 PM
19	N062241-007C	SAMP	1	01/10/2024	02:33:01 PM
7	CCV1	CCV	1	01/10/2024	02:38:59 PM
1	CCB1	CCB	1	01/10/2024	02:42:45 PM
20	N062241-008C	SAMP	1	01/10/2024	02:46:59 PM
21	N062241-009C	SAMP	1	01/10/2024	02:52:58 PM
22	N062241-009C	SAMP	5	01/10/2024	02:57:15 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
23	N062241-009C-PS	PS	1	01/10/2024	03:01:30 PM
24	N062241-009CMS	MS	1	01/10/2024	03:05:47 PM
25	N062241-009CMSD	MSD	1	01/10/2024	03:10:02 PM
26	N062242-001B	SAMP	1	01/10/2024	03:14:18 PM
27	N062242-002B	SAMP	1	01/10/2024	03:19:03 PM
28	N062242-003B	SAMP	1	01/10/2024	03:23:49 PM
29	N062242-004B	SAMP	1	01/10/2024	03:28:34 PM
7	CCV2	CCV	1	01/10/2024	03:33:22 PM
1	CCB2	CCB	1	01/10/2024	03:37:07 PM
30	N062243-002E	SAMP	1	01/10/2024	03:41:21 PM
31	N062243-003E	SAMP	1	01/10/2024	03:47:11 PM
32	N062244-003D	SAMP	1	01/10/2024	03:53:01 PM
35	MB-105921	MBLK	1	01/10/2024	03:58:52 PM
36	LCS-105921	LCS	1	01/10/2024	04:03:08 PM
37	N062238-001B	SAMP	1	01/10/2024	04:07:23 PM
38	N062238-001B	SAMP	5	01/10/2024	04:13:21 PM
39	N062238-001B-PS	PS	1	01/10/2024	04:18:08 PM
40	N062238-001B-MS	MS	1	01/10/2024	04:24:07 PM
41	N062238-001B-MSD	MSD	1	01/10/2024	04:30:04 PM
7	CCV3	CCV	1	01/10/2024	04:35:31 PM
1	CCB3	CCB	1	01/10/2024	04:39:15 PM
9	ICSA2	ICSA	1	01/10/2024	04:43:27 PM
10	ICSAB2	ICSAB	1	01/10/2024	04:49:09 PM
299	RINSE	RINSE	1	01/10/2024	04:54:52 PM
42	N062238-002B	SAMP	1	01/10/2024	05:01:46 PM
43	N062238-003B	SAMP	1	01/10/2024	05:07:14 PM
44	N062245-001D	SAMP	1	01/10/2024	05:12:42 PM
45	N062245-002D	SAMP	1	01/10/2024	05:18:34 PM
46	N062245-003D	SAMP	1	01/10/2024	05:24:25 PM
47	N062245-004D	SAMP	1	01/10/2024	05:29:48 PM
48	N062245-005D	SAMP	1	01/10/2024	05:34:34 PM
49	N062245-006D	SAMP	1	01/10/2024	05:38:50 PM
50	N062245-007D	SAMP	1	01/10/2024	05:44:39 PM
7	CCV4	CCV	1	01/10/2024	05:49:27 PM
1	CCB4	CCB	1	01/10/2024	05:53:12 PM
51	N062245-008D	SAMP	1	01/10/2024	05:57:26 PM
52	N062245-009D	SAMP	1	01/10/2024	06:03:15 PM
53	N062245-010D	SAMP	1	01/10/2024	06:09:05 PM
54	N062245-011D	SAMP	1	01/10/2024	06:14:55 PM
55	N062245-012D	SAMP	1	01/10/2024	06:20:46 PM
36	LCS-105921	LCS	1	01/10/2024	06:31:57 PM
7	CCV5	CCV	1	01/10/2024	06:36:13 PM
1	CCB5	CCB	1	01/10/2024	06:39:58 PM
9	ICSA3	ICSA	1	01/10/2024	06:44:41 PM
10	ICSAB3	ICSAB	1	01/10/2024	06:50:25 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:06:11 AM

Reviewed/ Date: d/Rocha 1/25/2024

Page: 1 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105920 Prep Code:3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-04-34

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105920	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105920	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062239-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:06:11 AM

Prep End Date: 1/9/2024 2:00:00 PM

Prep Batch 105920 Prep Code:3010_W DISS

Reviewed/ Date: *Alrocha* 1/25/2024

for

Initials/ Date: _____

Technician: Jocelyn Rivera

Page:2 of 2

Prep Factor Units Temp. (°C): Location:
mL / mL 95 DB-04-34

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062242-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062242-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-002E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062244-003D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240110A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/10/2024	12:36:02 PM	Fe	273.952	127	0.00	mg/L	
Standard1	01/10/2024	12:40:14 PM	Fe	273.952	280	0.02	mg/L	
Standard2	01/10/2024	12:44:27 PM	Fe	273.952	763	0.05	mg/L	
Standard3	01/10/2024	12:49:11 PM	Fe	273.952	26477	2.0	mg/L	
Standard4	01/10/2024	12:52:56 PM	Fe	273.952	66365	5.0	mg/L	
Standard5	01/10/2024	12:56:41 PM	Fe	273.952	99771	7.5	mg/L	
Standard6	01/10/2024	01:00:24 PM	Fe	273.952	133046	10.0	mg/L	
Standard7	01/10/2024	01:04:05 PM	Fe	273.952	262310	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10031.485	20	10000	0	100	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ZZZZZZ	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	20.598	20	20.00	0	103	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9980.518	20	10000	0	99.8	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10038.489	20	10000	0	100	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10043.862	20	10000	0	100	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10084.889	20	10000	0	101	90	110				
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCV	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10849.994	20	10000	0	108	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.457 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.390 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.725 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612410						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.489 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.256 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: CCB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1.549	20									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	480722.766	50	500000	0	96.1	80	120				
Calcium	428338.251	500	500000	0	85.7	80	120				
Iron	184268.121	20	200000	0	92.1	80	120				
Magnesium	417874.453	100	500000	0	83.6	80	120				

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA B	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612375						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	517512.017	50	500000	0	104	80	120				
Calcium	429740.937	500	500000	0	85.9	80	120				
Iron	165050.006	20	200000	0	82.5	80	120				
Magnesium	413984.691	100	500000	0	82.8	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	470664.512	50	500000	0	94.1	80	120				
Calcium	426074.668	500	500000	0	85.2	80	120				
Iron	184208.847	20	200000	0	92.1	80	120				
Magnesium	410740.796	100	500000	0	82.1	80	120				

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA B	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	506708.349	50	500000	0	101	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSAB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	428727.968	500	500000	0	85.7	80	120				
Iron	165493.459	20	200000	0	82.7	80	120				
Magnesium	410320.676	100	500000	0	82.1	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSA	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	449066.857	50	500000	0	89.8	80	120				
Calcium	474889.087	500	500000	0	95.0	80	120				
Iron	199678.162	20	200000	0	99.8	80	120				
Magnesium	443245.140	100	500000	0	88.6	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ICSAB	Batch ID: R180241	TestNo: EPA 6010B		Analysis Date: 1/10/2024	SeqNo: 5612433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	486511.659	50	500000	0	97.3	80	120				
Calcium	467053.339	500	500000	0	93.4	80	120				
Iron	177003.854	20	200000	0	88.5	80	120				
Magnesium	439086.517	100	500000	0	87.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1	100.25	65-125	PASS
Standard2	ICAL	1	1	100.35	65-125	PASS
Standard3	ICAL	1	1.02	101.92	65-125	PASS
Standard4	ICAL	1	1	100.41	65-125	PASS
Standard5	ICAL	1	1	100.5	65-125	PASS
Standard6	ICAL	1	0.99	98.83	65-125	PASS
Standard7	ICAL	1	0.99	98.91	65-125	PASS
ICV	ICV	1	1.04	104.05	65-125	PASS
ICB	ICB	1	1	100.49	65-125	PASS
LLICV1	CCV1	1	1	99.86	65-125	PASS
ICSA1	ICSA	1	0.99	99.07	65-125	PASS
ICSAB1	ICSAB	1	1.01	100.66	65-125	PASS
RINSE	RINSE	1	1.12	112.44	65-125	PASS
MB-105920	MBLK	1	1.04	104.28	65-125	PASS
LCS-105920	LCS	1	1.01	100.58	65-125	PASS
N062239-001B	SAMP	1	0.73	73.37	65-125	PASS
N062241-001C	SAMP	1	0.78	77.57	65-125	PASS
N062241-002C	SAMP	1	0.7	70.42	65-125	PASS
N062241-003C	SAMP	1	0.74	74.17	65-125	PASS
N062241-004C	SAMP	1	0.73	73.2	65-125	PASS
N062241-006C	SAMP	1	0.75	74.55	65-125	PASS
N062241-007C	SAMP	1	0.77	76.8	65-125	PASS
CCV1	CCV	1	1.03	102.94	65-125	PASS
CCB1	CCB	1	1.06	105.8	65-125	PASS
N062241-008C	SAMP	1	0.74	74.46	65-125	PASS
N062241-009C	SAMP	1	0.75	74.59	65-125	PASS
N062241-009C	SAMP	5	0.92	91.8	65-125	PASS
N062241-009C-PS	PS	1	0.8	79.83	65-125	PASS
N062241-009CMS	MS	1	0.79	78.66	65-125	PASS
N062241-009CMSD	MSD	1	0.79	78.65	65-125	PASS
N062242-001B	SAMP	1	1	100.01	65-125	PASS
N062242-002B	SAMP	1	1.02	101.67	65-125	PASS
N062242-003B	SAMP	1	0.98	98.42	65-125	PASS
N062242-004B	SAMP	1	0.98	97.82	65-125	PASS
CCV2	CCV	1	1.04	104.36	65-125	PASS
CCB2	CCB	1	1.06	105.76	65-125	PASS
N062243-002E	SAMP	1	0.95	94.85	65-125	PASS
N062243-003E	SAMP	1	0.95	94.79	65-125	PASS
N062244-003D	SAMP	1	0.94	93.69	65-125	PASS
CCV3	CCV	1	1.09	108.79	65-125	PASS

INTERNAL STANDARD: 240110A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCB3	CCB	1	1.12	111.64	65-125	PASS
ICSA2	ICSA	1	1.1	109.67	65-125	PASS
ICSAB2	ICSAB	1	1.08	107.72	65-125	PASS
RINSE	RINSE	1	1.17	116.81	65-125	PASS
CCV4	CCV	1	1.08	107.75	65-125	PASS
CCB4	CCB	1	1.1	110.21	65-125	PASS
CCV5	CCV	1	1.17	116.58	65-125	PASS
CCB5	CCB	1	1.18	118.22	65-125	PASS
ICSA3	ICSA	1	1.14	114.18	65-125	PASS
ICSAB3	ICSAB	1	1.12	111.8	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-Metals in Water

Work Order No.: N062241
Test Method: EPA 6010B
Analysis Date: 1/10/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105920

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062241-009C DT 5x	Iron	Fe	µg/L	0	NA	34.52978	100.00%	10

Reviewed by:

d/Rocha 1/25/2024

Note: NA - Not Applicable

01/25/24 18:55

DT_EPA 6010B_N062241_105920

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N062241-009C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180241						
Client ID: ZZZZZZ	Batch ID: 105920	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/10/2024	SeqNo: 5612390							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	122.154	20	100.0	34.53	87.6	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucão / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



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Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105924
ASSET #: N062241

Instrument ID: ICPMS-03
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/9/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

%RSD of As in LLICV failed. However, % rec passed criteria
 %RSD of As in N062241-004C failed. For rerun.
 Mn is OLR in N062241-006C. For dilution,
 Dilution test for As failed. However, PS passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 1/18/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105924
ASSET #: N062241

Instrument ID: ICPMS-03
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 As re run for N062241-004C
 Mn dilution for N062241-006C.
 % RSD of As in LLICV failed. However, % rec passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 1/23/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062241-001C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 147.321 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 147.321$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 150$$

Reviewed by:

 2/4/2024

% RSD SUMMARY



ASSET LABORATORIES
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PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	6.834	15	PASS	0.07	26.121	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	12.411	15	PASS	0.43	13.11	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	2.144	15	PASS	4.81	2.853	15	PASS
Std4-10/100 ppb	ICAL	1	9.51	2.007	15	PASS	9.63	1.906	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.65	2.416	15	PASS	19.65	1.592	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.57	1.363	15	PASS	39.01	1.069	15	PASS
Std7-100/1000 ppb	ICAL	1	99.22	0.546	15	PASS	97.74	1.87	15	PASS
Std8-200/2000 ppb	ICAL	1	200.74	1.35	15	PASS	201.39	0.519	15	PASS
ICV	ICV	1	9.92	2.554	15	PASS	99.98	0.877	15	PASS
ICB	ICB	1	0	156.817	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	CCV1	1	1.02	1.719	20	PASS	0.48	2.636	20	PASS
MLCCV	CCV	1	20.03	1.387	15	PASS	19.92	0.91	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.07	0.882	15	PASS	20.75	0.695	15	PASS
CCV1	CCV	1	19.56	1.77	15	PASS	19.39	1.732	15	PASS
CCB1	CCB	1	0	328.94	15	<PQL	0	877.706	15	<PQL
CCV2	CCV	1	20.17	1.903	15	PASS	19.57	0.535	15	PASS
CCB2	CCB	1	0.01	112.696	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	21.05	0.81	15	PASS	20.31	0.916	15	PASS
CCB3	CCB	1	0.01	90.753	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.82	0.679	15	PASS	20.33	0.801	15	PASS
CCV4	CCV	1	20.92	0.956	15	PASS	20.5	2.144	15	PASS
CCB4	CCB	1	0.01	91.582	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.78	1.957	15	PASS	20.72	3.131	15	PASS
CCB5	CCB	1	0.01	123.959	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.94	1.693	15	PASS	20.69	0.371	15	PASS
CCB6	CCB	1	0.01	15.268	15	<PQL	0.04	32.329	15	<PQL
ICSA3	ICSA	1	0.01	85.036	15	<PQL	0.02	70.201	15	<PQL
ICSAB3	ICSAB	1	20.81	0.441	15	PASS	20.83	0.751	15	PASS
CCV7	CCV	1	21.37	1.792	15	PASS	20.27	0.94	15	PASS
CCB7	CCB	1	0.01	102.599	15	<PQL	0	1071.346	15	<PQL
CCV8	CCV	1	21.29	2.428	15	PASS	20.59	3.046	15	PASS
CCB8	CCB	1	0.01	27.267	15	<PQL	0.05	25.096	15	<PQL
CCV9	CCV	1	21.2	0.682	15	PASS	20.61	0.796	15	PASS
CCB9	CCB	1	0.01	93.728	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0	49.744	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.78	0.879	15	PASS	20.79	0.346	15	PASS
MB-105924	MBLK	1	0	1171.222	15	<PQL	<0.000	N/A	15	<PQL
LCS-105924	LCS	1	10.76	1.673	15	PASS	100.37	1.589	15	PASS

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062243-002E	SAMP	1	117.08	0.932	15	PASS	1.8	4.849	15	PASS
N062243-003E	SAMP	1	117	1.027	15	PASS	1.7	6.906	15	PASS
N062238-001B	SAMP	1	25.25	1.035	15	PASS	1238.09	1.659	15	PASS
N062238-001B	SAMP	10	2.77	3.092	15	PASS	131.23	1.876	15	PASS
N062238-002B	SAMP	1	30.01	0.816	15	PASS	1203.34	0.66	15	PASS
N062238-002B	SAMP	10	3.1	1.195	15	PASS	129.54	1.736	15	PASS
N062238-003B	SAMP	1	41.4	1.526	15	PASS	1303.54	1.942	15	PASS
N062238-003B	SAMP	10	4.43	1.504	15	PASS	138.48	1.495	15	PASS
CCV10	CCV	1	21.57	2.13	15	PASS	20.37	1.449	15	PASS
CCB10	CCB	1	0.01	104.605	15	<PQL	0.03	77.417	15	<PQL
N062239-001B	SAMP	1	53.48	1.038	15	PASS	824.18	1.687	15	PASS
N062239-001B	SAMP	10	5.57	2.534	15	PASS	87.96	0.448	15	PASS
N062241-001C	SAMP	1	147.32	0.322	15	PASS	<0.000	N/A	15	<PQL
N062241-002C	SAMP	1	48.22	0.745	15	PASS	31.33	0.48	15	PASS
N062241-003C	SAMP	1	32.88	0.845	15	PASS	50.51	1.079	15	PASS
N062241-004C	SAMP	1	36.13	1.466	15	PASS	41.95	1.92	15	PASS
N062241-006C	SAMP	1	118.72	0.861	15	PASS	578.82	0.527	15	PASS
N062241-007C	SAMP	1	52.64	0.937	15	PASS	26.64	0.768	15	PASS
N062241-008C	SAMP	1	39.28	1.218	15	PASS	36.4	3.646	15	PASS
CCV11	CCV	1	21.46	1.78	15	PASS	20.17	1.415	15	PASS
CCB11	CCB	1	0.02	36.635	15	<PQL	<0.000	N/A	15	<PQL
N062241-009C	SAMP	1	27.04	1.126	15	PASS	36.15	1.784	15	PASS
N062241-009C	SAMP	5	5.65	2.973	15	PASS	7.62	0.474	15	PASS
N062241-009C-PS	PS	1	37.16	1.556	15	PASS	129.46	0.1	15	PASS
N062241-009CMS	MS	1	37.04	0.28	15	PASS	128.29	0.529	15	PASS
N062241-009CMSD	MSD	1	36.54	0.905	15	PASS	128.47	0.691	15	PASS
CCV12	CCV	1	21.38	0.441	15	PASS	20.65	2.561	15	PASS
CCB12	CCB	1	0.01	56.67	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	21.13	0.888	15	PASS	20.78	1.558	15	PASS
CCV13	CCV	1	21.7	0.971	15	PASS	20.34	2.296	15	PASS
CCB13	CCB	1	0.01	25.723	15	<PQL	0.02	47.889	15	<PQL
CCV14	CCV	1	21.27	1.423	15	PASS	20.15	1.252	15	PASS
CCB14	CCB	1	0.01	63.861	15	<PQL	0.03	49.532	15	<PQL
ICSA6	ICSA	1	0	352.27	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.06	1.561	15	PASS	20.1	1.48	15	PASS

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.06	64.931	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	5.879	15	PASS
Std3-5/50 ppb	ICAL	1	4.48	3.511	15	PASS
Std4-10/100 ppb	ICAL	1	9.28	7.883	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.27	2.585	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.48	3.728	15	PASS
Std7-100/1000 ppb	ICAL	1	96.68	2.763	15	PASS
Std8-200/2000 ppb	ICAL	1	202.09	1.226	15	PASS
ICV	ICV	1	9.83	3.857	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLICV1	CCV1	1	0.11	20.441	20	FAIL
MLCCV	CCV	1	19.74	0.467	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.32	3.032	15	PASS
CCV1	CCV	1	19.83	3.656	15	PASS
CCB1	CCB	1	0	664.48	15	<PQL
CCV2	CCV	1	18.99	3.488	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.85	3.564	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.65	1.462	15	PASS
CCV4	CCV	1	19.66	4.072	15	PASS
CCB4	CCB	1	0	365.144	15	<PQL
CCV5	CCV	1	19.73	3.829	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.87	1.618	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.01	169.163	15	<PQL
ICSAB3	ICSAB	1	19.69	0.696	15	PASS
CCV7	CCV	1	20.57	2.681	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.87	2.17	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.93	4.556	15	PASS
CCB9	CCB	1	0	1862.14	15	<PQL
ICSA4	ICSA	1	0.01	260.774	15	<PQL
ICSAB4	ICSAB	1	19.2	1.503	15	PASS
MB-105924	MBLK	1	0	9.823	15	PASS
LCS-105924	LCS	1	9.64	2.167	15	PASS

PERCENT RSD SUMMARY: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N062243-002E	SAMP	1	1.19	20.473	15	NR!
N062243-003E	SAMP	1	1.21	10.806	15	PASS
N062238-001B	SAMP	1	<0.000	N/A	15	<PQL
N062238-001B	SAMP	10	<0.000	N/A	15	<PQL
N062238-002B	SAMP	1	<0.000	N/A	15	<PQL
N062238-002B	SAMP	10	<0.000	N/A	15	<PQL
N062238-003B	SAMP	1	<0.000	N/A	15	<PQL
N062238-003B	SAMP	10	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.98	3.569	15	PASS
CCB10	CCB	1	0.01	508.112	15	<PQL
N062239-001B	SAMP	1	<0.000	N/A	15	<PQL
N062239-001B	SAMP	10	<0.000	N/A	15	<PQL
N062241-001C	SAMP	1	<0.000	N/A	15	<PQL
N062241-002C	SAMP	1	<0.000	N/A	15	<PQL
N062241-003C	SAMP	1	<0.000	N/A	15	<PQL
N062241-004C	SAMP	1	0.26	176.903	15	NR!
N062241-006C	SAMP	1	<0.000	N/A	15	<PQL
N062241-007C	SAMP	1	<0.000	N/A	15	<PQL
N062241-008C	SAMP	1	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.85	1.186	15	PASS
CCB11	CCB	1	0.02	113.653	15	<PQL
N062241-009C	SAMP	1	2.59	11.358	15	PASS
N062241-009C	SAMP	5	0.42	36.675	15	NR!
N062241-009C-PS	PS	1	12.32	3.768	15	PASS
N062241-009CMS	MS	1	12.59	6.089	15	PASS
N062241-009CMSD	MSD	1	12.65	4.642	15	PASS
CCV12	CCV	1	19.62	1.7	15	PASS
CCB12	CCB	1	0.01	183.573	15	<PQL
ICSA5	ICSA	1	0	2124.62	15	<PQL
ICSAB5	ICSAB	1	19.82	2.31	15	PASS
CCV13	CCV	1	19.98	1.315	15	PASS
CCB13	CCB	1	0.03	143.209	15	<PQL
CCV14	CCV	1	19.38	3.834	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	0.01	159.865	15	<PQL
ICSAB6	ICSAB	1	19.54	2.858	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.05	19.848	15	<PQL	0.08	29.844	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	1.314	15	PASS	0.43	12.06	15	PASS
Std3-5/50 ppb	ICAL	1	4.83	2.045	15	PASS	4.68	2.998	15	PASS
Std4-10/100 ppb	ICAL	1	9.52	2.631	15	PASS	9.54	4.33	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.19	0.465	15	PASS	19.26	2.717	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.18	2.124	15	PASS	38.42	0.676	15	PASS
Std7-100/1000 ppb	ICAL	1	98.91	1.255	15	PASS	97.77	1.439	15	PASS
Std8-200/2000 ppb	ICAL	1	200.82	0.572	15	PASS	201.53	1.357	15	PASS
ICV	ICV	1	100.04	0.851	15	PASS	9.74	2.799	15	PASS
ICV	ICV	1	100.73	0.592	15	PASS	10.11	1.735	15	PASS
ICB	ICB	1	0.01	193.16	15	<PQL	0.02	86.307	15	<PQL
LLICV1	LLICV	1	0.51	6.643	20	PASS	0.14	21.507	20	NR!
LLICV1	LLICV	1	0.44	5.874	20	PASS	0.11	29.103	20	NR!
MLCCV	CCV	1	19.41	0.712	15	PASS	19.28	1.402	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	85.182	15	<PQL
ICSAB1	ICSAB	1	20.29	1.692	15	PASS	20.36	2.746	15	PASS
CCV1	CCV	1	19.49	1.715	15	PASS	19.09	0.842	15	PASS
CCB1	CCB	1	0.02	58.326	15	<PQL	0.02	111.383	15	<PQL
N062243-002E	SAMP	1	1.76	8.504	15	PASS	1.28	3.186	15	PASS
N062241-004C	SAMP	1	40.53	1.335	15	PASS	2	5.675	15	PASS
N062241-006C	SAMP	10	60.89	0.485	15	PASS	0.05	104.381	15	<PQL
CCV2	CCV	1	19.26	1.587	15	PASS	19.07	2.664	15	PASS
CCB2	CCB	1	0.01	51.24	15	<PQL	0.02	76.048	15	<PQL
CCV3	CCV	1	19.33	1.621	15	PASS	18.95	0.948	15	PASS
CCB3	CCB	1	0.01	173.659	15	<PQL	0.02	49.809	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	166.759	15	<PQL
ICSAB2	ICSAB	1	20.05	1.448	15	PASS	20.19	1.674	15	PASS
CCV4	CCV	1	19.35	1.737	15	PASS	19.19	2.051	15	PASS
CCB4	CCB	1	0.02	110.112	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.46	1.08	15	PASS	19.2	2.083	15	PASS
CCB5	CCB	1	0.02	100.663	15	<PQL	0.01	98.19	15	<PQL
CCV6	CCV	1	19.85	1.465	15	PASS	18.89	0.441	15	PASS
CCB6	CCB	1	0.01	309.925	15	<PQL	0.02	30.796	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.51	0.783	15	PASS	19.61	1.631	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 240109A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109001.d	RINSE	ICAL	1	01/09/24 11:52 AM
A0109002.d	RINSE	ICAL	1	01/09/24 11:57 AM
A0109003.d	Cal Blk	IBLK	1	01/09/24 12:02 PM
A0109004.d	Std1-0.1/1 ppb	ICAL	1	01/09/24 12:06 PM
A0109005.d	Std2-0.5/5 ppb	ICAL	1	01/09/24 12:11 PM
A0109006.d	Std3-5/50 ppb	ICAL	1	01/09/24 12:16 PM
A0109007.d	Std4-10/100 ppb	ICAL	1	01/09/24 12:21 PM
A0109008.d	Std5-4.0/20/200 ppb	ICAL	1	01/09/24 12:25 PM
A0109009.d	Std6-8.0/40/400 ppb	ICAL	1	01/09/24 12:30 PM
A0109010.d	Std7-100/1000 ppb	ICAL	1	01/09/24 12:35 PM
A0109011.d	Std8-200/2000 ppb	ICAL	1	01/09/24 12:40 PM
A0109012.d	ICV	ICV	1	01/09/24 12:46 PM
A0109013.d	ICB	ICB	1	01/09/24 12:51 PM
A0109014.d	LLICV1	CCV1	1	01/09/24 12:55 PM
A0109015.d	MLCCV	CCV	1	01/09/24 1:00 PM
A0109016.d	ICSA1	ICSA	1	01/09/24 1:05 PM
A0109017.d	ICSAB1	ICSAB	1	01/09/24 1:09 PM
A0109018.d	MB-105929	MBLK	1	01/09/24 1:17 PM
A0109019.d	LCS-105929	LCS	1	01/09/24 1:21 PM
A0109020.d	N062208-001B	SAMP	1	01/09/24 1:26 PM
A0109021.d	N062208-001B	SAMP	5	01/09/24 1:31 PM
A0109022.d	N062208-001B-PS	PS	1	01/09/24 1:35 PM
A0109023.d	N062208-001B-MS	MS	1	01/09/24 1:40 PM
A0109024.d	N062208-001B-MSD	MSD	1	01/09/24 1:45 PM
A0109025.d	N062208-002B	SAMP	1	01/09/24 1:49 PM
A0109026.d	N062208-003B	SAMP	1	01/09/24 1:54 PM
A0109027.d	RINSE	ICAL	1	01/09/24 1:59 PM
A0109028.d	CCV1	CCV	1	01/09/24 2:03 PM
A0109029.d	CCB1	CCB	1	01/09/24 2:08 PM
A0109030.d	N062208-004B	SAMP	1	01/09/24 2:13 PM
A0109031.d	N062208-005B	SAMP	1	01/09/24 2:17 PM
A0109032.d	N062208-006B	SAMP	1	01/09/24 2:22 PM
A0109033.d	N062208-007B	SAMP	1	01/09/24 2:27 PM
A0109034.d	N062208-008B	SAMP	1	01/09/24 2:31 PM
A0109035.d	N062209-001D	SAMP	1	01/09/24 2:36 PM
A0109036.d	N062209-002D	SAMP	1	01/09/24 2:40 PM
A0109037.d	N062209-003D	SAMP	1	01/09/24 2:45 PM
A0109038.d	N062209-004D	SAMP	1	01/09/24 2:50 PM
A0109039.d	RINSE	ICAL	1	01/09/24 2:54 PM
A0109040.d	CCV2	CCV	1	01/09/24 2:59 PM
A0109041.d	CCB2	CCB	1	01/09/24 3:04 PM
A0109042.d	N062210-001B	SAMP	1	01/09/24 3:08 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109043.d	N062210-002B	SAMP	1	01/09/24 3:13 PM
A0109044.d	N062210-003B	SAMP	1	01/09/24 3:17 PM
A0109045.d	N062200-012A	SAMP	1	01/09/24 3:22 PM
A0109046.d	RINSE	ICAL	1	01/09/24 3:27 PM
A0109047.d	CCV3	CCV	1	01/09/24 3:32 PM
A0109048.d	CCB3	CCB	1	01/09/24 3:37 PM
A0109049.d	ICSA2	ICSA	1	01/09/24 3:42 PM
A0109050.d	ICSAB2	ICSAB	1	01/09/24 3:46 PM
A0109051.d	MB-105925	MBLK	1	01/09/24 3:51 PM
A0109052.d	LCS-105925	LCS	1	01/09/24 3:56 PM
A0109053.d	N062237-001A	SAMP	1	01/09/24 4:00 PM
A0109054.d	N062237-001A	SAMP	5	01/09/24 4:05 PM
A0109055.d	N062237-001A	SAMP	10	01/09/24 4:09 PM
A0109056.d	N062237-001A	SAMP	50	01/09/24 4:14 PM
A0109057.d	N062237-001A-PS	PS	1	01/09/24 4:19 PM
A0109058.d	N062237-001A-PS	PS	10	01/09/24 4:23 PM
A0109059.d	N062237-001A-MS	MS	1	01/09/24 4:28 PM
A0109060.d	N062237-001A-MS	MS	10	01/09/24 4:33 PM
A0109061.d	CCV4	CCV	1	01/09/24 4:37 PM
A0109062.d	CCB4	CCB	1	01/09/24 4:42 PM
A0109063.d	N062237-001A-MSD	MSD	1	01/09/24 4:47 PM
A0109064.d	N062237-001A-MSD	MSD	10	01/09/24 4:51 PM
A0109065.d	CCV5	CCV	1	01/09/24 4:56 PM
A0109066.d	CCB5	CCB	1	01/09/24 5:01 PM
A0109067.d	N062190-004A	SAMP	1	01/09/24 5:05 PM
A0109068.d	N062190-004B	SAMP	1	01/09/24 5:10 PM
A0109069.d	N062194-001A	SAMP	1	01/09/24 5:14 PM
A0109070.d	N062194-001D	SAMP	1	01/09/24 5:19 PM
A0109071.d	N062194-005A	SAMP	1	01/09/24 5:24 PM
A0109072.d	N062194-005D	SAMP	1	01/09/24 5:28 PM
A0109073.d	N062194-011A	SAMP	1	01/09/24 5:33 PM
A0109074.d	N062194-011D	SAMP	1	01/09/24 5:38 PM
A0109075.d	N062194-012A	SAMP	1	01/09/24 5:42 PM
A0109076.d	N062194-012D	SAMP	1	01/09/24 5:47 PM
A0109077.d	CCV6	CCV	1	01/09/24 5:52 PM
A0109078.d	CCB6	CCB	1	01/09/24 5:56 PM
A0109079.d	ICSA3	ICSA	1	01/09/24 6:01 PM
A0109080.d	ICSAB3	ICSAB	1	01/09/24 6:06 PM
A0109081.d	MB-105922	MBLK	1	01/09/24 6:10 PM
A0109082.d	LCS-105922	LCS	1	01/09/24 6:15 PM
A0109083.d	N062242-001B	SAMP	1	01/09/24 6:19 PM
A0109084.d	N062242-002B	SAMP	1	01/09/24 6:24 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0109087.d	N062242-005B	SAMP	1	01/09/24 6:38 PM
A0109088.d	N062242-006B	SAMP	1	01/09/24 6:43 PM
A0109089.d	N062242-007B	SAMP	1	01/09/24 6:47 PM
A0109090.d	RINSE	ICAL	1	01/09/24 6:52 PM
A0109091.d	CCV7	CCV	1	01/09/24 6:57 PM
A0109092.d	CCB7	CCB	1	01/09/24 7:01 PM
A0109093.d	N062244-003D	SAMP	1	01/09/24 7:06 PM
A0109094.d	N062244-003D	SAMP	5	01/09/24 7:11 PM
A0109095.d	N062244-003D-PS	PS	1	01/09/24 7:15 PM
A0109096.d	N062244-003D-MS	MS	1	01/09/24 7:20 PM
A0109097.d	N062244-003D-MSD	MSD	1	01/09/24 7:25 PM
A0109098.d	N062245-001D	SAMP	1	01/09/24 7:29 PM
A0109099.d	N062245-002D	SAMP	1	01/09/24 7:34 PM
A0109100.d	N062245-003D	SAMP	1	01/09/24 7:39 PM
A0109101.d	N062245-004D	SAMP	1	01/09/24 7:43 PM
A0109102.d	RINSE	ICAL	1	01/09/24 7:48 PM
A0109103.d	CCV8	CCV	1	01/09/24 7:52 PM
A0109104.d	CCB8	CCB	1	01/09/24 7:57 PM
A0109105.d	N062245-005D	SAMP	1	01/09/24 8:02 PM
A0109106.d	N062245-006D	SAMP	1	01/09/24 8:07 PM
A0109107.d	N062245-007D	SAMP	1	01/09/24 8:11 PM
A0109108.d	N062245-008D	SAMP	1	01/09/24 8:16 PM
A0109109.d	N062245-009D	SAMP	1	01/09/24 8:20 PM
A0109110.d	N062245-010D	SAMP	1	01/09/24 8:25 PM
A0109111.d	N062245-011D	SAMP	1	01/09/24 8:30 PM
A0109112.d	N062245-012D	SAMP	1	01/09/24 8:34 PM
A0109113.d	RINSE	ICAL	1	01/09/24 8:39 PM
A0109114.d	CCV9	CCV	1	01/09/24 8:44 PM
A0109115.d	CCB9	CCB	1	01/09/24 8:48 PM
A0109116.d	ICSA4	ICSA	1	01/09/24 8:53 PM
A0109117.d	ICSAB4	ICSAB	1	01/09/24 8:58 PM
A0109118.d	MB-105924	MBLK	1	01/09/24 9:02 PM
A0109119.d	LCS-105924	LCS	1	01/09/24 9:07 PM
A0109120.d	N062243-002E	SAMP	1	01/09/24 9:12 PM
A0109121.d	N062243-003E	SAMP	1	01/09/24 9:16 PM
A0109122.d	N062238-001B	SAMP	1	01/09/24 9:21 PM
A0109123.d	N062238-001B	SAMP	10	01/09/24 9:26 PM
A0109124.d	N062238-002B	SAMP	1	01/09/24 9:30 PM
A0109125.d	N062238-002B	SAMP	10	01/09/24 9:35 PM
A0109126.d	N062238-003B	SAMP	1	01/09/24 9:40 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0109127.d	N062238-003B	SAMP	10	01/09/24 9:44 PM
A0109128.d	CCV10	CCV	1	01/09/24 9:49 PM
A0109129.d	CCB10	CCB	1	01/09/24 9:54 PM
A0109130.d	N062239-001B	SAMP	1	01/09/24 9:58 PM
A0109131.d	N062239-001B	SAMP	10	01/09/24 10:03 PM
A0109132.d	N062241-001C	SAMP	1	01/09/24 10:08 PM
A0109133.d	N062241-002C	SAMP	1	01/09/24 10:12 PM
A0109134.d	N062241-003C	SAMP	1	01/09/24 10:17 PM
A0109135.d	N062241-004C	SAMP	1	01/09/24 10:22 PM
A0109136.d	N062241-006C	SAMP	1	01/09/24 10:26 PM
A0109137.d	N062241-007C	SAMP	1	01/09/24 10:31 PM
A0109138.d	N062241-008C	SAMP	1	01/09/24 10:36 PM
A0109139.d	RINSE	ICAL	1	01/09/24 10:40 PM
A0109140.d	CCV11	CCV	1	01/09/24 10:45 PM
A0109141.d	CCB11	CCB	1	01/09/24 10:50 PM
A0109142.d	N062241-009C	SAMP	1	01/09/24 10:54 PM
A0109143.d	N062241-009C	SAMP	5	01/09/24 10:59 PM
A0109144.d	N062241-009C-PS	PS	1	01/09/24 11:04 PM
A0109145.d	N062241-009CMS	MS	1	01/09/24 11:08 PM
A0109146.d	N062241-009CMSD	MSD	1	01/09/24 11:13 PM
A0109147.d	RINSE	ICAL	1	01/09/24 11:18 PM
A0109148.d	CCV12	CCV	1	01/09/24 11:22 PM
A0109149.d	CCB12	CCB	1	01/09/24 11:27 PM
A0109150.d	ICSA5	ICSA	1	01/09/24 11:32 PM
A0109151.d	ICSAB5	ICSAB	1	01/09/24 11:36 PM
A0109152.d	MB-105923	MBLK	1	01/09/24 11:41 PM
A0109153.d	LCS-105923	LCS	1	01/09/24 11:45 PM
A0109154.d	N062238-001C	SAMP	1	01/09/24 11:50 PM
A0109155.d	N062238-002C	SAMP	1	01/09/24 11:55 PM
A0109156.d	N062238-003C	SAMP	1	01/09/24 11:59 PM
A0109157.d	N062239-001C	SAMP	1	01/10/24 12:04 AM
A0109158.d	N062239-001C	SAMP	5	01/10/24 12:09 AM
A0109159.d	N062239-001C	SAMP	10	01/10/24 12:13 AM
A0109160.d	N062239-001C	SAMP	50	01/10/24 12:18 AM
A0109161.d	CCV13	CCV	1	01/10/24 12:23 AM
A0109162.d	CCB13	CCB	1	01/10/24 12:27 AM
A0109163.d	N062239-001C-PS	PS	1	01/10/24 12:32 AM
A0109164.d	N062239-001C-PS	PS	10	01/10/24 12:37 AM
A0109165.d	N062239-001C-MS	MS	1	01/10/24 12:41 AM
A0109166.d	N062239-001C-MS	MS	10	01/10/24 12:46 AM
A0109167.d	N062239-001C-MSD	MSD	1	01/10/24 12:50 AM
A0109168.d	N062239-001C-MSD	MSD	10	01/10/24 12:55 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0109169.d	RINSE	ICAL	1	01/10/24 1:00 AM
A0109170.d	CCV14	CCV	1	01/10/24 1:04 AM
A0109171.d	CCB14	CCB	1	01/10/24 1:09 AM
A0109172.d	ICSA6	ICSA	1	01/10/24 1:14 AM
A0109173.d	ICSAB6	ICSAB	1	01/10/24 1:18 AM
A0109174.d	RINSE	ICAL	1	01/10/24 1:23 AM
A0109175.d	RINSE	ICAL	1	01/10/24 1:28 AM
A0109176.d	RINSE	ICAL	1	01/10/24 1:32 AM
A0109177.d	RINSE	ICAL	1	01/10/24 1:37 AM
A0109178.d	RINSE	ICAL	1	01/10/24 1:42 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111001.d	RINSE	ICAL	1	01/11/24 1:07 PM
A0111002.d	RINSE	ICAL	1	01/11/24 1:12 PM
A0111003.d	Cal Blk	IBLK	1	01/11/24 1:17 PM
A0111004.d	Std1-0.1/1 ppb	ICAL	1	01/11/24 1:21 PM
A0111005.d	Std2-0.5/5 ppb	ICAL	1	01/11/24 1:26 PM
A0111006.d	Std3-5/50 ppb	ICAL	1	01/11/24 1:31 PM
A0111007.d	Std4-10/100 ppb	ICAL	1	01/11/24 1:36 PM
A0111008.d	Std5-4.0/20/200 ppb	ICAL	1	01/11/24 1:40 PM
A0111009.d	Std6-8.0/40/400 ppb	ICAL	1	01/11/24 1:45 PM
A0111010.d	Std7-100/1000 ppb	ICAL	1	01/11/24 1:50 PM
A0111011.d	Std8-200/2000 ppb	ICAL	1	01/11/24 1:55 PM
A0111012.d	ICV	ICV	1	01/11/24 2:12 PM
A0111013.d	ICV	ICV	1	01/11/24 2:16 PM
A0111014.d	ICB	ICB	1	01/11/24 2:21 PM
A0111015.d	LLICV1	LLICV	1	01/11/24 2:26 PM
A0111016.d	LLICV1	LLICV	1	01/11/24 2:31 PM
A0111017.d	MLCCV	CCV	1	01/11/24 2:38 PM
A0111018.d	ICSA1	ICSA	1	01/11/24 2:42 PM
A0111019.d	ICSAB1	ICSAB	1	01/11/24 2:47 PM
A0111020.d	N062244-003D	SAMP	10	01/11/24 2:52 PM
A0111021.d	N062244-003D	SAMP	50	01/11/24 2:56 PM
A0111022.d	N062244-003D-PS	PS	10	01/11/24 3:01 PM
A0111023.d	N062244-003D-MS	MS	10	01/11/24 3:06 PM
A0111024.d	N062244-003D-MSD	MSD	10	01/11/24 3:10 PM
A0111025.d	N062245-001D	SAMP	10	01/11/24 3:15 PM
A0111026.d	N062245-002D	SAMP	10	01/11/24 3:20 PM
A0111027.d	N062245-003D	SAMP	10	01/11/24 3:24 PM
A0111028.d	N062245-006D	SAMP	10	01/11/24 3:29 PM
A0111029.d	CCV1	CCV	1	01/11/24 3:33 PM
A0111030.d	CCB1	CCB	1	01/11/24 3:38 PM
A0111031.d	N062245-009D	SAMP	1	01/11/24 3:43 PM
A0111032.d	N062245-010D	SAMP	1	01/11/24 3:47 PM
A0111033.d	N062245-012D	SAMP	1	01/11/24 3:52 PM
A0111034.d	N062243-002E	SAMP	1	01/11/24 3:57 PM
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A0111036.d	N062241-006C	SAMP	10	01/11/24 4:06 PM
A0111037.d	N062239-001C	SAMP	100	01/11/24 4:11 PM
A0111038.d	N062239-001C	SAMP	500	01/11/24 4:15 PM
A0111039.d	N062239-001C-PS	PS	100	01/11/24 4:20 PM
A0111040.d	N062239-001C-MS	MS	100	01/11/24 4:25 PM
A0111041.d	CCV2	CCV	1	01/11/24 4:29 PM
A0111042.d	CCB2	CCB	1	01/11/24 4:34 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0111044.d	N062245-006D	SAMP	100	01/11/24 4:43 PM
A0111045.d	N062245-009D	SAMP	1	01/11/24 4:48 PM
A0111046.d	N062245-010D	SAMP	1	01/11/24 4:52 PM
A0111047.d	N062245-010D	SAMP	1	01/11/24 4:57 PM
A0111048.d	N062245-010D	SAMP	1	01/11/24 5:02 PM
A0111049.d	N062245-010D	SAMP	1	01/11/24 5:06 PM
A0111050.d	CCV3	CCV	1	01/11/24 5:11 PM
A0111051.d	CCB3	CCB	1	01/11/24 5:16 PM
A0111052.d	ICSA2	ICSA	1	01/11/24 5:20 PM
A0111053.d	ICSAB2	ICSAB	1	01/11/24 5:25 PM
A0111054.d	N062274-001B	SAMP	10	01/11/24 5:30 PM
A0111055.d	N062274-002B	SAMP	10	01/11/24 5:34 PM
A0111056.d	N062274-003B	SAMP	10	01/11/24 5:39 PM
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A0111058.d	N062278-002D	SAMP	100	01/11/24 5:48 PM
A0111059.d	N062278-002D	SAMP	500	01/11/24 5:53 PM
A0111060.d	N062278-002D-PS	PS	100	01/11/24 5:58 PM
A0111061.d	N062278-002D-MS	MS	100	01/11/24 6:02 PM
A0111062.d	N062278-002D-MSD	MSD	100	01/11/24 6:07 PM
A0111063.d	N062278-003D	SAMP	100	01/11/24 6:11 PM
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A0111065.d	CCB4	CCB	1	01/11/24 6:21 PM
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A0111068.d	N062278-008D	SAMP	10	01/11/24 6:35 PM
A0111069.d	N062278-009D	SAMP	100	01/11/24 6:39 PM
A0111070.d	N062278-011D	SAMP	1	01/11/24 6:44 PM
A0111071.d	N062279-023D	SAMP	1	01/11/24 6:49 PM
A0111072.d	N062279-005D	SAMP	10	01/11/24 6:53 PM
A0111073.d	N062279-006D	SAMP	10	01/11/24 6:58 PM
A0111074.d	N062279-008D	SAMP	1	01/11/24 7:03 PM
A0111075.d	N062279-008D	SAMP	10	01/11/24 7:07 PM
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A0111077.d	CCB5	CCB	1	01/11/24 7:17 PM
A0111078.d	N062272-002C	SAMP	10	01/11/24 7:21 PM
A0111079.d	N062272-007C	SAMP	10	01/11/24 7:26 PM
A0111080.d	N062272-008C	SAMP	10	01/11/24 7:31 PM
A0111081.d	N062272-015C	SAMP	1	01/11/24 7:35 PM
A0111082.d	N062272-018C	SAMP	1	01/11/24 7:40 PM
A0111083.d	N062272-019C	SAMP	10	01/11/24 7:45 PM
A0111084.d	N062279-023D	SAMP	1	01/11/24 7:51 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0111087.d	RINSE	ICAL	1	01/11/24 8:05 PM
A0111088.d	CCV6	CCV	1	01/11/24 8:09 PM
A0111089.d	CCB6	CCB	1	01/11/24 8:14 PM
A0111090.d	ICSA3	ICSA	1	01/11/24 8:19 PM
A0111091.d	ICSAB3	ICSAB	1	01/11/24 8:23 PM
A0111092.d	MB-105984	MBLK	1	01/11/24 8:28 PM
A0111093.d	LCS-105984	LCS	1	01/11/24 8:33 PM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:10:22 AM

Reviewed/ Date: *JRB* 2/4/2024

Page: 1 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105924 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL 95 DB-01-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105924	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105924	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062238-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062238-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N062239-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/9/2024 10:10:22 AM

Reviewed/ Date: *JRB* 2/4/2024

Page: 2 of 2

Prep End Date: 1/9/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105924 Prep Code: 3010_W_MS DISS_TPK

Technician: Diane Jetajobe

mL / mL 95 DB-01-5

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062241-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062241-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-002E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062243-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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NEVADA
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372

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240108A.b
Acq. Date-Time 2024-01-09 11:41:07
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

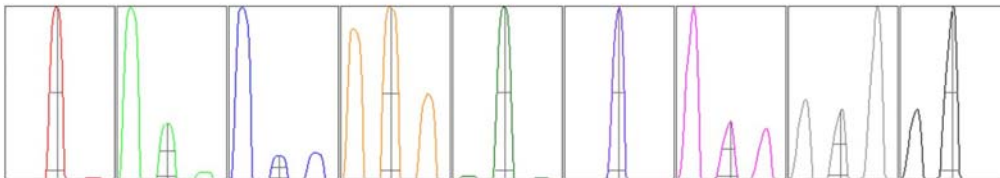
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9239	92393.25	500.00		2.854	5.000
24	10.00	22469	224694.60	500.00		2.407	5.000
25	10.00	3002	30022.35	500.00		2.214	5.000
26	10.00	3469	34686.40	500.00		2.672	5.000
59	10.00	30117	301169.32	500.00		2.364	5.000
115	10.00	31072	310721.73	500.00		3.175	5.000
206	10.00	7324	73242.98	500.00		2.646	5.000
207	10.00	6084	60841.23	500.00		2.466	5.000
208	10.00	15101	151010.22	500.00		2.405	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.555 %
Doubly Charged 70 / 140 1.023 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9352.02	8.95	8.90 - 9.10	
24	23119.90	23.90	23.90 - 24.10	
25	3048.57	24.90	24.90 - 25.10	
26	3466.63	25.90	25.90 - 26.10	
59	29073.59	58.95	58.90 - 59.10	
115	32216.14	115.00	114.90 - 115.10	
206	6770.60	206.00	205.90 - 206.10	
207	5768.60	206.95	206.90 - 207.10	
208	14485.73	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.42	0.536	0.900	
25	0.41	0.497	0.900	
26	0.44	0.539	0.900	
59	0.39	0.535	0.900	
115	0.34	0.481	0.900	
206	0.36	0.567	0.900	
207	0.36	0.541	0.900	
208	0.36	0.535	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2480 V Pulse HV 1547 V

[H2]

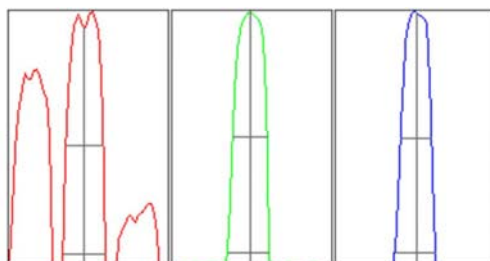
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		194	1943.11			8.565	
59		3135	31349.92			3.247	
115		27184	271842.07			2.017	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.397 %
 Doubly Charged 70 / 140 0.348 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	189.02	25.95	25.90 - 26.10	
59	3253.28	59.00	58.90 - 59.10	
115	27652.19	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.791	0.900	
59	0.65	0.782	0.900	
115	0.59	0.763	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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[He]

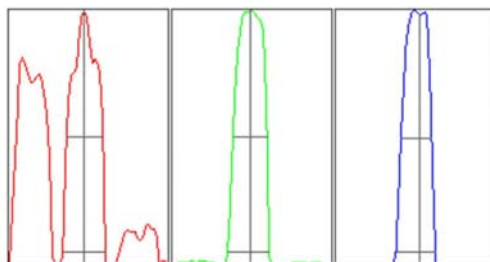
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		83	832.62			11.850	
59		5925	59251.70			2.328	
115		5022	50220.33			2.755	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.181 %
Doubly Charged	70 / 140 1.339 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	94.01	25.95	25.90 - 26.10	
59	5882.36	59.00	58.90 - 59.10	
115	5042.41	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.792	0.900	
59	0.64	0.781	0.900	
115	0.59	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2480 V	Pulse HV	1547 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240110A1.b
Acq. Date-Time 2024-01-11 13:00:05
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

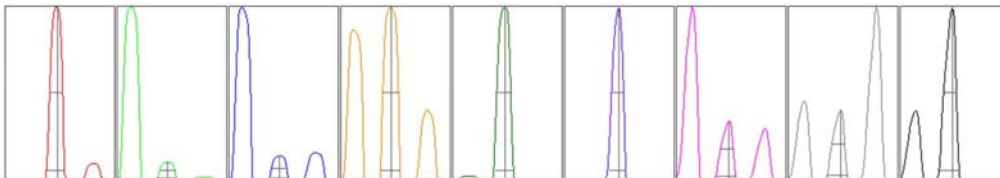
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	11260	112597.50	500.00		2.261	5.000
24	10.00	33485	334845.74	500.00		2.232	5.000
25	10.00	4451	44507.11	500.00		2.971	5.000
26	10.00	5071	50710.20	500.00		2.373	5.000
59	10.00	44551	445507.83	500.00		2.423	5.000
115	10.00	52369	523690.63	500.00		2.194	5.000
206	10.00	8641	86409.97	500.00		2.280	5.000
207	10.00	7351	73508.19	500.00		2.434	5.000
208	10.00	17964	179641.43	500.00		2.401	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.846 %
Doubly Charged 70 / 140 1.068 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11548.55	8.95	8.90 - 9.10	
24	34858.90	23.90	23.90 - 24.10	
25	4539.92	24.90	24.90 - 25.10	
26	5221.65	25.90	25.90 - 26.10	
59	44582.56	58.95	58.90 - 59.10	
115	52921.91	115.00	114.90 - 115.10	
206	8842.02	205.95	205.90 - 206.10	
207	7730.80	206.95	206.90 - 207.10	
208	19415.89	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.523	0.900	
25	0.41	0.497	0.900	
26	0.43	0.539	0.900	
59	0.39	0.534	0.900	
115	0.34	0.488	0.900	
206	0.36	0.547	0.900	
207	0.36	0.570	0.900	
208	0.36	0.565	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2489 V Pulse HV 1556 V

[H2]

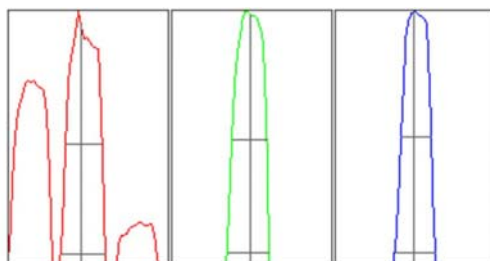
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		295	2950.86			6.274	
59		3519	35189.79			3.486	
115		45963	459634.94			2.276	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.661 %
 Doubly Charged 70 / 140 0.387 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	312.04	25.90	25.90 - 26.10	
59	3640.11	59.00	58.90 - 59.10	
115	47264.94	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.830	0.900	
59	0.66	0.786	0.900	
115	0.58	0.761	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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[He]

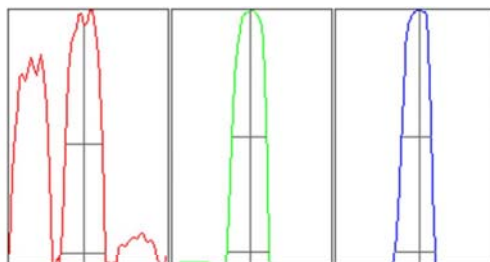
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		123	1226.24			9.347	
59		9311	93114.79			2.383	
115		9087	90868.91			2.840	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.295 %
Doubly Charged	70 / 140 1.165 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	117.26	25.95	25.90 - 26.10	
59	9307.29	59.00	58.90 - 59.10	
115	9150.72	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.66	0.785	0.900	
115	0.57	0.756	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240109A

Instrument ID: ICPMS-03

Analyte	Data File	A0109003.d	A0109004.d	A0109005.d	A0109006.d	A0109007.d	A0109008.d	A0109009.d	A0109010.d	A0109011.d	R
	Acq. Date-Time	01/09/2024 12:02 PM	01/09/2024 12:06 PM	01/09/2024 12:11 PM	01/09/2024 12:16 PM	01/09/2024 12:21 PM	01/09/2024 12:25 PM	01/09/2024 12:30 PM	01/09/2024 12:35 PM	01/09/2024 12:40 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	36090		37411.9	37735.8	37947.5	37055.4	37742.5	37015.4	37544.3	
55 Mn [2]	CPS	65.5		636.4	6435.2	12883.8	25612.7	51717	126984.3	265390.4	0.9999
72 Ge (ISTD) [2]	CPS	18967.7	19809.8	19591.8	19857.6	20006.7	19618.5	20129.1	19335.9	19885.5	
75 As [2]	CPS	6.6	23.3	136.6	1326.6	2766.8	5615.3	11479.3	27697.1	59605.7	0.9998
159 Tb (ISTD) [3]	CPS	1456302		1495449.3	1517433.6	1528750.6	1509604.1	1520065.8	1466477	1499994.3	
137 Ba [3]	CPS	23.3		1380.1	13045.6	26870.1	54800.1	108294.4	268712.8	556023.9	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240111A

Instrument ID: ICPMS-03

Analyte	Data File	A0111003.d	A0111004.d	A0111005.d	A0111006.d	A0111007.d	A0111008.d	A0111009.d	A0111010.d	A0111011.d	
	Acq. Date-Time	01/11/2024 01:17 PM	01/11/2024 01:21 PM	01/11/2024 01:26 PM	01/11/2024 01:31 PM	01/11/2024 01:36 PM	01/11/2024 01:40 PM	01/11/2024 01:45 PM	01/11/2024 01:50 PM	01/11/2024 01:55 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	54104.9		52994.9	53388.3	53436.1	52906.7	53081.8	53161	52955.8	
55 Mn [2]	CPS	147.8		977.4	9596.8	18791.4	37386.4	76425.6	193013.3	390143.5	1.0000
72 Ge (ISTD) [2]	CPS	31649.5	31926.6	31629.4	31622.7	31857.6	31194.2	31915.5	31804.2	31541.4	
75 As [2]	CPS	6.6	45.5	208.8	2197.8	4507.2	8901	18160.8	46038.1	94109.6	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.829	0.10	10.00	0	98.3	90	110				
Barium	9.923	1.0	10.00	0	99.2	90	110				
Manganese	99.982	0.50	100.0	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ZZZZZZ	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.110	0.10	0.1000	0	110	80	120				
Barium	1.019	1.0	1.000	0	102	80	120				
Manganese	0.483	0.50	0.5000	0	96.7	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.738	0.10	20.00	0	98.7	90	110				
Barium	20.028	1.0	20.00	0	100	90	110				
Manganese	19.921	0.50	20.00	0	99.6	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613130							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.832	0.10	20.00	0	99.2	90	110				
Barium	19.561	1.0	20.00	0	97.8	90	110				
Manganese	19.392	0.50	20.00	0	97.0	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.986	0.10	20.00	0	94.9	90	110				
Barium	20.175	1.0	20.00	0	101	90	110				
Manganese	19.565	0.50	20.00	0	97.8	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.849	0.10	20.00	0	99.2	90	110				
Barium	21.047	1.0	20.00	0	105	90	110				
Manganese	20.306	0.50	20.00	0	102	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.658	0.10	20.00	0	98.3	90	110				
Barium	20.918	1.0	20.00	0	105	90	110				
Manganese	20.503	0.50	20.00	0	103	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.725	0.10	20.00	0	98.6	90	110				
Barium	20.778	1.0	20.00	0	104	90	110				
Manganese	20.721	0.50	20.00	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: CCV		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613177			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.873	0.10	20.00	0	99.4	90	110				
Barium	20.938	1.0	20.00	0	105	90	110				
Manganese	20.693	0.50	20.00	0	103	90	110				

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: CCV		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613190			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.573	0.10	20.00	0	103	90	110				
Barium	21.374	1.0	20.00	0	107	90	110				
Manganese	20.267	0.50	20.00	0	101	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: CCV		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613201			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.875	0.10	20.00	0	99.4	90	110				
Barium	21.288	1.0	20.00	0	106	90	110				
Manganese	20.592	0.50	20.00	0	103	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: CCV		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613211			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.934	0.10	20.00	0	99.7	90	110				
Barium	21.202	1.0	20.00	0	106	90	110				
Manganese	20.608	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613225						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.982	0.10	20.00	0	99.9	90	110				
Barium	21.568	1.0	20.00	0	108	90	110				
Manganese	20.372	0.50	20.00	0	102	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.850	0.10	20.00	0	99.3	90	110				
Barium	21.457	1.0	20.00	0	107	90	110				
Manganese	20.175	0.50	20.00	0	101	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCV	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.615	0.10	20.00	0	98.1	90	110				
Barium	21.383	1.0	20.00	0	107	90	110				
Manganese	20.650	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICV	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617244							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.111	0.10	10.00	0	101	90	110				
Barium	10.055	1.0	10.00	0	101	90	110				
Manganese	100.729	0.50	100.0	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617246							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.035	1.0	1.000	0	104	80	120				
Manganese	0.506	0.50	0.5000	0	101	80	120				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617247							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.112	0.10	0.1000	0	112	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617248							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.282	0.10	20.00	0	96.4	90	110				
Barium	19.219	1.0	20.00	0	96.1	90	110				
Manganese	19.409	0.50	20.00	0	97.0	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617260							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.090	0.10	20.00	0	95.4	90	110				
Barium	19.433	1.0	20.00	0	97.2	90	110				
Manganese	19.486	0.50	20.00	0	97.4	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.112	1.0	20.00	0	95.6	90	110				
Manganese	19.257	0.50	20.00	0	96.3	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617281						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.949	0.10	20.00	0	94.7	90	110				
Barium	19.180	1.0	20.00	0	95.9	90	110				
Manganese	19.329	0.50	20.00	0	96.6	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.195	0.10	20.00	0	96.0	90	110				
Barium	19.301	1.0	20.00	0	96.5	90	110				
Manganese	19.353	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617307						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.198	0.10	20.00	0	96.0	90	110				
Barium	19.141	1.0	20.00	0	95.7	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617318						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.891	0.10	20.00	0	94.5	90	110				
Barium	19.516	1.0	20.00	0	97.6	90	110				
Manganese	19.847	0.50	20.00	0	99.2	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.783	0.10	20.00	0	93.9	90	110				
Barium	19.599	1.0	20.00	0	98.0	90	110				
Manganese	19.546	0.50	20.00	0	97.7	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.315	0.10	20.00	0	96.6	90	110				
Barium	19.697	1.0	20.00	0	98.5	90	110				
Manganese	19.697	0.50	20.00	0	98.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.760	0.10	20.00	0	93.8	90	110				
Barium	19.809	1.0	20.00	0	99.0	90	110				
Manganese	19.675	0.50	20.00	0	98.4	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619448						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.937	0.10	20.00	0	94.7	90	110				
Barium	19.483	1.0	20.00	0	97.4	90	110				
Manganese	19.699	0.50	20.00	0	98.5	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619459						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.943	0.10	20.00	0	94.7	90	110				
Barium	19.794	1.0	20.00	0	99.0	90	110				
Manganese	20.012	0.50	20.00	0	100	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619470						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.828	0.10	20.00	0	94.1	90	110				
Barium	19.749	1.0	20.00	0	98.7	90	110				
Manganese	19.896	0.50	20.00	0	99.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV13		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619483			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.384	1.0	20.00	0	96.9	90	110				
Manganese	19.993	0.50	20.00	0	100	90	110				

Sample ID: CCV14		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619494			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.003	0.10	20.00	0	95.0	90	110				
Barium	19.503	1.0	20.00	0	97.5	90	110				
Manganese	19.664	0.50	20.00	0	98.3	90	110				

Sample ID: CCV15		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619505			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.672	0.10	20.00	0	93.4	90	110				
Barium	19.255	1.0	20.00	0	96.3	90	110				
Manganese	19.976	0.50	20.00	0	99.9	90	110				

Sample ID: CCV16		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619516			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.806	0.10	20.00	0	94.0	90	110				
Barium	19.377	1.0	20.00	0	96.9	90	110				
Manganese	20.020	0.50	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613162							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613166							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613178							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.035	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613191							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.045	0.50									

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613226						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.028	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: CCB	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617282						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617296							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617308							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5617319							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619414							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619471						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.032	0.50

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.028	0.50

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA B	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.324	0.10	20.00	0	102	80	120				
Barium	20.071	1.0	20.00	0	100	80	120				
Manganese	20.750	0.50	20.00	0	104	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA B	Batch ID: R180250	TestNo: EPA 6020		Analysis Date: 1/9/2024	SeqNo: 5613150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.654	0.10	20.00	0	98.3	80	120				
Barium	20.822	1.0	20.00	0	104	80	120				
Manganese	20.327	0.50	20.00	0	102	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: ICSA		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613179			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: ICSA		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613180			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.692	0.10	20.00	0	98.5	80	120				
Barium	20.807	1.0	20.00	0	104	80	120				
Manganese	20.834	0.50	20.00	0	104	80	120				

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: ICSA		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613213			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180250			
Client ID: ICSA		Batch ID: R180250		TestNo: EPA 6020		Analysis Date: 1/9/2024		SeqNo: 5613214			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.200	0.10	20.00	0	96.0	80	120				
Barium	20.783	1.0	20.00	0	104	80	120				
Manganese	20.790	0.50	20.00	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSA	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613245							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ICSAB	Batch ID: R180250	TestNo: EPA 6020	Analysis Date: 1/9/2024	SeqNo: 5613246							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.818	0.10	20.00	0	99.1	80	120				
Barium	21.133	1.0	20.00	0	106	80	120				
Manganese	20.777	0.50	20.00	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617249			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA1		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617250			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.356	0.10	20.00	0	102	80	120				
Barium	20.242	1.0	20.00	0	101	80	120				
Manganese	20.292	0.50	20.00	0	101	80	120				

Sample ID: ICSA2		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617283			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA2		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617284			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.191	0.10	20.00	0	101	80	120				
Barium	19.985	1.0	20.00	0	99.9	80	120				
Manganese	20.045	0.50	20.00	0	100	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617320			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617321			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.612	0.10	20.00	0	98.1	80	120				
Barium	20.248	1.0	20.00	0	101	80	120				
Manganese	20.509	0.50	20.00	0	103	80	120				

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619437			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619438			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.641	0.10	20.00	0	98.2	80	120				
Barium	20.304	1.0	20.00	0	102	80	120				
Manganese	20.433	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619472			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B5		SampType: ICSA B		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA B		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619473			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.119	0.10	20.00	0	101	80	120				
Barium	20.077	1.0	20.00	0	100	80	120				
Manganese	20.777	0.50	20.00	0	104	80	120				

Sample ID: ICSA6		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619518			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B6		SampType: ICSA B		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA B		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619519			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.787	0.10	20.00	0	98.9	80	120				
Barium	19.885	1.0	20.00	0	99.4	80	120				
Manganese	20.945	0.50	20.00	0	105	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1456302	1456302	100	PASS	30-150	36090	36090	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1504444.2	1456302	103.31	PASS	30-150	37693.6	36090	104.44	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1495449.3	1456302	102.69	PASS	30-150	37411.9	36090	103.66	PASS	30-150
Std3-5/50 ppb	ICAL	1	1517433.6	1456302	104.2	PASS	30-150	37735.8	36090	104.56	PASS	30-150
Std4-10/100 ppb	ICAL	1	1528750.6	1456302	104.97	PASS	30-150	37947.5	36090	105.15	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1509604.1	1456302	103.66	PASS	30-150	37055.4	36090	102.67	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1520065.8	1456302	104.38	PASS	30-150	37742.5	36090	104.58	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1466477	1456302	100.7	PASS	30-150	37015.4	36090	102.56	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1499994.3	1456302	103	PASS	30-150	37544.3	36090	104.03	PASS	30-150
ICV	ICV	1	1518696.9	1456302	104.28	PASS	30-150	37963	36090	105.19	PASS	30-150
ICB	ICB	1	1437653.4	1456302	98.72	PASS	30-150	36768.2	36090	101.88	PASS	30-150
LLICV1	CCV1	1	1508392.6	1456302	103.58	PASS	30-150	37474.2	36090	103.84	PASS	30-150
MLCCV	CCV	1	1496988.5	1456302	102.79	PASS	30-150	37252.5	36090	103.22	PASS	30-150
ICSA1	ICSA	1	1462820.7	1456302	100.45	PASS	30-150	36713.6	36090	101.73	PASS	30-150
ICSAB1	ICSAB	1	1422748.7	1456302	97.7	PASS	30-150	36043.3	36090	99.87	PASS	30-150
CCV1	CCV	1	1535838.2	1456302	105.46	PASS	30-150	36464.1	36090	101.04	PASS	30-150
CCB1	CCB	1	1473555.3	1456302	101.18	PASS	30-150	34766.1	36090	96.33	PASS	30-150
CCV2	CCV	1	1462381.9	1456302	100.42	PASS	30-150	34842.9	36090	96.54	PASS	30-150
CCB2	CCB	1	1416807.6	1456302	97.29	PASS	30-150	33454.5	36090	92.7	PASS	30-150
CCV3	CCV	1	1375867.9	1456302	94.48	PASS	30-150	32513.8	36090	90.09	PASS	30-150
CCB3	CCB	1	1308890.9	1456302	89.88	PASS	30-150	30466.6	36090	84.42	PASS	30-150
ICSA2	ICSA	1	1388766.9	1456302	95.36	PASS	30-150	32353.5	36090	89.65	PASS	30-150
ICSAB2	ICSAB	1	1381982.9	1456302	94.9	PASS	30-150	31742.3	36090	87.95	PASS	30-150
CCV4	CCV	1	1363813.6	1456302	93.65	PASS	30-150	31199.1	36090	86.45	PASS	30-150
CCB4	CCB	1	1317482.1	1456302	90.47	PASS	30-150	29804.3	36090	82.58	PASS	30-150
CCV5	CCV	1	1351817.3	1456302	92.83	PASS	30-150	30544.5	36090	84.63	PASS	30-150
CCB5	CCB	1	1313940.7	1456302	90.22	PASS	30-150	29206.6	36090	80.93	PASS	30-150
CCV6	CCV	1	1602968.2	1456302	110.07	PASS	30-150	34532.3	36090	95.68	PASS	30-150
CCB6	CCB	1	1536200.3	1456302	105.49	PASS	30-150	32179.8	36090	89.17	PASS	30-150
ICSA3	ICSA	1	1596380.7	1456302	109.62	PASS	30-150	33848.6	36090	93.79	PASS	30-150
ICSAB3	ICSAB	1	1619778.7	1456302	111.23	PASS	30-150	34614.7	36090	95.91	PASS	30-150
CCV7	CCV	1	1549738.4	1456302	106.42	PASS	30-150	34245	36090	94.89	PASS	30-150
CCB7	CCB	1	1501714.2	1456302	103.12	PASS	30-150	32078.5	36090	88.88	PASS	30-150
CCV8	CCV	1	1490440.7	1456302	102.34	PASS	30-150	33009.2	36090	91.46	PASS	30-150
CCB8	CCB	1	1455367.7	1456302	99.94	PASS	30-150	31357.2	36090	86.89	PASS	30-150
CCV9	CCV	1	1503213.3	1456302	103.22	PASS	30-150	32549.5	36090	90.19	PASS	30-150
CCB9	CCB	1	1439869.7	1456302	98.87	PASS	30-150	31282.6	36090	86.68	PASS	30-150
ICSA4	ICSA	1	1538120.5	1456302	105.62	PASS	30-150	33275.3	36090	92.2	PASS	30-150
ICSAB4	ICSAB	1	1548000.9	1456302	106.3	PASS	30-150	33217.4	36090	92.04	PASS	30-150
MB-105924	MBLK	1	1380902.4	1456302	94.82	PASS	30-150	30073.7	36090	83.33	PASS	30-150
LCS-105924	LCS	1	1416223.6	1456302	97.25	PASS	30-150	30847.3	36090	85.47	PASS	30-150

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062243-002E	SAMP	1	1454306.5	1456302	99.86	PASS	30-150	30301.9	36090	83.96	PASS	30-150
N062243-003E	SAMP	1	1444430.9	1456302	99.18	PASS	30-150	29685.3	36090	82.25	PASS	30-150
N062238-001B	SAMP	1	1247054.9	1456302	85.63	PASS	30-150	28659	36090	79.41	PASS	30-150
N062238-001B	SAMP	10	1373921.9	1456302	94.34	PASS	30-150	29268.9	36090	81.1	PASS	30-150
N062238-002B	SAMP	1	1219169	1456302	83.72	PASS	30-150	27895.5	36090	77.29	PASS	30-150
N062238-002B	SAMP	10	1370721.3	1456302	94.12	PASS	30-150	29158.7	36090	80.79	PASS	30-150
N062238-003B	SAMP	1	1214501.2	1456302	83.4	PASS	30-150	27806.4	36090	77.05	PASS	30-150
N062238-003B	SAMP	10	1359892.4	1456302	93.38	PASS	30-150	29466	36090	81.65	PASS	30-150
CCV10	CCV	1	1507660.4	1456302	103.53	PASS	30-150	33207.4	36090	92.01	PASS	30-150
CCB10	CCB	1	1430337.8	1456302	98.22	PASS	30-150	31745.7	36090	87.96	PASS	30-150
N062239-001B	SAMP	1	1174113.5	1456302	80.62	PASS	30-150	28551	36090	79.11	PASS	30-150
N062239-001B	SAMP	10	1376935.1	1456302	94.55	PASS	30-150	29956.8	36090	83.01	PASS	30-150
N062241-001C	SAMP	1	1266147.9	1456302	86.94	PASS	30-150	28779.2	36090	79.74	PASS	30-150
N062241-002C	SAMP	1	1190804.3	1456302	81.77	PASS	30-150	29689.7	36090	82.27	PASS	30-150
N062241-003C	SAMP	1	1250333.5	1456302	85.86	PASS	30-150	29913.4	36090	82.89	PASS	30-150
N062241-004C	SAMP	1	1190025.2	1456302	81.72	PASS	30-150	28371.9	36090	78.61	PASS	30-150
N062241-006C	SAMP	1	1199402	1456302	82.36	PASS	30-150	27902.2	36090	77.31	PASS	30-150
N062241-007C	SAMP	1	1259199.8	1456302	86.47	PASS	30-150	29037.5	36090	80.46	PASS	30-150
N062241-008C	SAMP	1	1257789.5	1456302	86.37	PASS	30-150	28949.5	36090	80.21	PASS	30-150
CCV11	CCV	1	1507284.4	1456302	103.5	PASS	30-150	33506.9	36090	92.84	PASS	30-150
CCB11	CCB	1	1431491.2	1456302	98.3	PASS	30-150	31330.4	36090	86.81	PASS	30-150
N062241-009C	SAMP	1	1215632.5	1456302	83.47	PASS	30-150	28429.7	36090	78.77	PASS	30-150
N062241-009C	SAMP	5	1330928.7	1456302	91.39	PASS	30-150	28810.4	36090	79.83	PASS	30-150
N062241-009C-PS	PS	1	1208674.4	1456302	83	PASS	30-150	28041.3	36090	77.7	PASS	30-150
N062241-009CMS	MS	1	1212886.3	1456302	83.29	PASS	30-150	28124.8	36090	77.93	PASS	30-150
N062241-009CMSD	MSD	1	1222157.1	1456302	83.92	PASS	30-150	28551.1	36090	79.11	PASS	30-150
CCV12	CCV	1	1520207	1456302	104.39	PASS	30-150	32455.9	36090	89.93	PASS	30-150
CCB12	CCB	1	1441317.6	1456302	98.97	PASS	30-150	30889.6	36090	85.59	PASS	30-150
ICSA5	ICSA	1	1529093.4	1456302	105	PASS	30-150	33017	36090	91.49	PASS	30-150
ICSAB5	ICSAB	1	1517882.5	1456302	104.23	PASS	30-150	32478.2	36090	89.99	PASS	30-150
CCV13	CCV	1	1503039.3	1456302	103.21	PASS	30-150	32776.5	36090	90.82	PASS	30-150
CCB13	CCB	1	1451618.2	1456302	99.68	PASS	30-150	31467.4	36090	87.19	PASS	30-150
CCV14	CCV	1	1490139.4	1456302	102.32	PASS	30-150	32255.5	36090	89.38	PASS	30-150
CCB14	CCB	1	1449599.7	1456302	99.54	PASS	30-150	30697.1	36090	85.06	PASS	30-150
ICSA6	ICSA	1	1520975.6	1456302	104.44	PASS	30-150	32639.6	36090	90.44	PASS	30-150
ICSAB6	ICSAB	1	1515342.7	1456302	104.05	PASS	30-150	32592.9	36090	90.31	PASS	30-150

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	18967.7	18967.7	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	19809.8	18967.7	104.44	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	19591.8	18967.7	103.29	PASS	30-150
Std3-5/50 ppb	ICAL	1	19857.6	18967.7	104.69	PASS	30-150
Std4-10/100 ppb	ICAL	1	20006.7	18967.7	105.48	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	19618.5	18967.7	103.43	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	20129.1	18967.7	106.12	PASS	30-150
Std7-100/1000 ppb	ICAL	1	19335.9	18967.7	101.94	PASS	30-150
Std8-200/2000 ppb	ICAL	1	19885.5	18967.7	104.84	PASS	30-150
ICV	ICV	1	19843.2	18967.7	104.62	PASS	30-150
ICB	ICB	1	19248	18967.7	101.48	PASS	30-150
LLICV1	CCV1	1	19653	18967.7	103.61	PASS	30-150
MLCCV	CCV	1	19585.1	18967.7	103.26	PASS	30-150
ICSA1	ICSA	1	19562.8	18967.7	103.14	PASS	30-150
ICSAB1	ICSAB	1	18995.5	18967.7	100.15	PASS	30-150
CCV1	CCV	1	19002.2	18967.7	100.18	PASS	30-150
CCB1	CCB	1	18624	18967.7	98.19	PASS	30-150
CCV2	CCV	1	19339.2	18967.7	101.96	PASS	30-150
CCB2	CCB	1	18753	18967.7	98.87	PASS	30-150
CCV3	CCV	1	17845.3	18967.7	94.08	PASS	30-150
CCB3	CCB	1	16829.8	18967.7	88.73	PASS	30-150
ICSA2	ICSA	1	18028.9	18967.7	95.05	PASS	30-150
ICSAB2	ICSAB	1	17726.3	18967.7	93.46	PASS	30-150
CCV4	CCV	1	17289.2	18967.7	91.15	PASS	30-150
CCB4	CCB	1	16364.9	18967.7	86.28	PASS	30-150
CCV5	CCV	1	16707.4	18967.7	88.08	PASS	30-150
CCB5	CCB	1	16093.5	18967.7	84.85	PASS	30-150
CCV6	CCV	1	19155.7	18967.7	100.99	PASS	30-150
CCB6	CCB	1	18068.9	18967.7	95.26	PASS	30-150
ICSA3	ICSA	1	18767.4	18967.7	98.94	PASS	30-150
ICSAB3	ICSAB	1	19404.9	18967.7	102.3	PASS	30-150
CCV7	CCV	1	18893.2	18967.7	99.61	PASS	30-150
CCB7	CCB	1	17968.8	18967.7	94.73	PASS	30-150
CCV8	CCV	1	18358.1	18967.7	96.79	PASS	30-150
CCB8	CCB	1	17591.7	18967.7	92.75	PASS	30-150
CCV9	CCV	1	18120.1	18967.7	95.53	PASS	30-150
CCB9	CCB	1	17799.7	18967.7	93.84	PASS	30-150
ICSA4	ICSA	1	18778.6	18967.7	99	PASS	30-150
ICSAB4	ICSAB	1	18986.6	18967.7	100.1	PASS	30-150
MB-105924	MBLK	1	16696.3	18967.7	88.03	PASS	30-150
LCS-105924	LCS	1	17378.1	18967.7	91.62	PASS	30-150

INTERNAL STANDARD: 240109A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N062243-002E	SAMP	1	17127.9	18967.7	90.3	PASS	30-150
N062243-003E	SAMP	1	17021.1	18967.7	89.74	PASS	30-150
N062238-001B	SAMP	1	15749.8	18967.7	83.04	PASS	30-150
N062238-001B	SAMP	10	16620.7	18967.7	87.63	PASS	30-150
N062238-002B	SAMP	1	15140.4	18967.7	79.82	PASS	30-150
N062238-002B	SAMP	10	16329.3	18967.7	86.09	PASS	30-150
N062238-003B	SAMP	1	15199.3	18967.7	80.13	PASS	30-150
N062238-003B	SAMP	10	16784.2	18967.7	88.49	PASS	30-150
CCV10	CCV	1	18449.3	18967.7	97.27	PASS	30-150
CCB10	CCB	1	17816.4	18967.7	93.93	PASS	30-150
N062239-001B	SAMP	1	15347.2	18967.7	80.91	PASS	30-150
N062239-001B	SAMP	10	16617.4	18967.7	87.61	PASS	30-150
N062241-001C	SAMP	1	15316.1	18967.7	80.75	PASS	30-150
N062241-002C	SAMP	1	15524.1	18967.7	81.84	PASS	30-150
N062241-003C	SAMP	1	15832.1	18967.7	83.47	PASS	30-150
N062241-004C	SAMP	1	15458.4	18967.7	81.5	PASS	30-150
N062241-006C	SAMP	1	14763.4	18967.7	77.83	PASS	30-150
N062241-007C	SAMP	1	15633	18967.7	82.42	PASS	30-150
N062241-008C	SAMP	1	15715.4	18967.7	82.85	PASS	30-150
CCV11	CCV	1	18497.1	18967.7	97.52	PASS	30-150
CCB11	CCB	1	17361.5	18967.7	91.53	PASS	30-150
N062241-009C	SAMP	1	15169.3	18967.7	79.97	PASS	30-150
N062241-009C	SAMP	5	16129.1	18967.7	85.04	PASS	30-150
N062241-009C-PS	PS	1	15064.7	18967.7	79.42	PASS	30-150
N062241-009CMS	MS	1	15280.5	18967.7	80.56	PASS	30-150
N062241-009CMSD	MSD	1	15321.6	18967.7	80.78	PASS	30-150
CCV12	CCV	1	18368.1	18967.7	96.84	PASS	30-150
CCB12	CCB	1	17354.8	18967.7	91.5	PASS	30-150
ICSA5	ICSA	1	18211.3	18967.7	96.01	PASS	30-150
ICSAB5	ICSAB	1	18385.9	18967.7	96.93	PASS	30-150
CCV13	CCV	1	18177.9	18967.7	95.84	PASS	30-150
CCB13	CCB	1	17828.6	18967.7	93.99	PASS	30-150
CCV14	CCV	1	18104.5	18967.7	95.45	PASS	30-150
CCB14	CCB	1	17312.5	18967.7	91.27	PASS	30-150
ICSA6	ICSA	1	17977.7	18967.7	94.78	PASS	30-150
ICSAB6	ICSAB	1	17953.2	18967.7	94.65	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	54104.9	54104.9	100	PASS	30-150	31649.5	31649.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53213.2	54104.9	98.35	PASS	30-150	31926.6	31649.5	100.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	52994.9	54104.9	97.95	PASS	30-150	31629.4	31649.5	99.94	PASS	30-150
Std3-5/50 ppb	ICAL	1	53388.3	54104.9	98.68	PASS	30-150	31622.7	31649.5	99.92	PASS	30-150
Std4-10/100 ppb	ICAL	1	53436.1	54104.9	98.76	PASS	30-150	31857.6	31649.5	100.66	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	52906.7	54104.9	97.79	PASS	30-150	31194.2	31649.5	98.56	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	53081.8	54104.9	98.11	PASS	30-150	31915.5	31649.5	100.84	PASS	30-150
Std7-100/1000 ppb	ICAL	1	53161	54104.9	98.26	PASS	30-150	31804.2	31649.5	100.49	PASS	30-150
Std8-200/2000 ppb	ICAL	1	52955.8	54104.9	97.88	PASS	30-150	31541.4	31649.5	99.66	PASS	30-150
ICV	ICV	1	51646.1	54104.9	95.46	PASS	30-150	31124	31649.5	98.34	PASS	30-150
ICV	ICV	1	51276.2	54104.9	94.77	PASS	30-150	30451.6	31649.5	96.22	PASS	30-150
ICB	ICB	1	51223.8	54104.9	94.67	PASS	30-150	30244.6	31649.5	95.56	PASS	30-150
LLICV1	LLICV	1	51353	54104.9	94.91	PASS	30-150	30407.1	31649.5	96.08	PASS	30-150
LLICV1	LLICV	1	51306.2	54104.9	94.83	PASS	30-150	30802.3	31649.5	97.32	PASS	30-150
MLCCV	CCV	1	52654.8	54104.9	97.32	PASS	30-150	31412.3	31649.5	99.25	PASS	30-150
ICSA1	ICSA	1	51493.5	54104.9	95.17	PASS	30-150	30504	31649.5	96.38	PASS	30-150
ICSAB1	ICSAB	1	51377.6	54104.9	94.96	PASS	30-150	30481.7	31649.5	96.31	PASS	30-150
CCV1	CCV	1	50765.7	54104.9	93.83	PASS	30-150	30417.1	31649.5	96.11	PASS	30-150
CCB1	CCB	1	50377.9	54104.9	93.11	PASS	30-150	30412.7	31649.5	96.09	PASS	30-150
N062243-002E	SAMP	1	49764.8	54104.9	91.98	PASS	30-150	30441.6	31649.5	96.18	PASS	30-150
N062241-004C	SAMP	1	44974.8	54104.9	83.13	PASS	30-150	25511	31649.5	80.6	PASS	30-150
N062241-006C	SAMP	10	47263.3	54104.9	87.35	PASS	30-150	28650.6	31649.5	90.52	PASS	30-150
CCV2	CCV	1	47925.1	54104.9	88.58	PASS	30-150	28327.8	31649.5	89.5	PASS	30-150
CCB2	CCB	1	47475.1	54104.9	87.75	PASS	30-150	28904.4	31649.5	91.33	PASS	30-150
CCV3	CCV	1	46958	54104.9	86.79	PASS	30-150	28315.6	31649.5	89.47	PASS	30-150
CCB3	CCB	1	46005.3	54104.9	85.03	PASS	30-150	28133	31649.5	88.89	PASS	30-150
ICSA2	ICSA	1	46753	54104.9	86.41	PASS	30-150	27992.8	31649.5	88.45	PASS	30-150
ICSAB2	ICSAB	1	46785.3	54104.9	86.47	PASS	30-150	27815.9	31649.5	87.89	PASS	30-150
CCV4	CCV	1	45890.5	54104.9	84.82	PASS	30-150	27860.4	31649.5	88.03	PASS	30-150
CCB4	CCB	1	45021.6	54104.9	83.21	PASS	30-150	27600	31649.5	87.21	PASS	30-150
CCV5	CCV	1	45156.4	54104.9	83.46	PASS	30-150	27293.9	31649.5	86.24	PASS	30-150
CCB5	CCB	1	44545.9	54104.9	82.33	PASS	30-150	27360.6	31649.5	86.45	PASS	30-150
CCV6	CCV	1	45623.2	54104.9	84.32	PASS	30-150	27933.8	31649.5	88.26	PASS	30-150
CCB6	CCB	1	44705.2	54104.9	82.63	PASS	30-150	28129.7	31649.5	88.88	PASS	30-150
ICSA3	ICSA	1	44997	54104.9	83.17	PASS	30-150	27403	31649.5	86.58	PASS	30-150
ICSAB3	ICSAB	1	44992.6	54104.9	83.16	PASS	30-150	27499.8	31649.5	86.89	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ASSET Laboratories

AA-Metals in Water

Work Order No.: N062241
Test Method: EPA 6020
Analysis Date: 1/9/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105924

Instrument ID: AA-02
Instrument Description: CETAC M-6100


Comments:

Analyzed By: Diane Jetajobe

Dilution test for As failed. However, PS passed criteria.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062241-009C DT 5x	Arsenic	As	µg/L	2.08006	FAIL	2.591779	19.74%	10
N062241-009C DT 5x	Barium	Ba	µg/L	28.23499	PASS	27.03836	4.43%	10
N062241-009C DT 5x	Manganese	Mn	µg/L	38.08207	PASS	36.14865	5.35%	10

Reviewed by:

 2/4/2024

Note: NA - Not Applicable

01/26/24 16:17

DT_EPA 6020_N062241_105924

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062241
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062241-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180250						
Client ID: ZZZZZZ	Batch ID: 105924	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/9/2024	SeqNo: 5613240						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.316	0.10	10.00	2.592	97.2	80	120				
Barium	37.158	1.0	10.00	27.04	101	80	120				
Manganese	129.461	0.50	100.0	36.15	93.3	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



ASSET LABORATORIES
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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

CALIFORNIA

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 ELAP Cert 2921 | EPA ID CA01638

NEVADA

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 ELAP Cert 2676 | NV Cert NV00922 | ORELAP/NELAP Cert 4046



LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062272

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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ASSET Laboratories Work Order: N062272

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February 12, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062272

RE: PG&E Topock - PCM, 30121866

Attention: Dan Bush

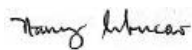
Enclosed are the results for sample(s) received on January 09, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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ASSET Laboratories

Date: 12-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062272

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) is outside recovery criteria for Barium in QC sample N062272-004C-MS possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

The report was amended to incorporate the re-analyzed result of Arsenic as samples N062272-001 to 004 and Batch QCs were inadvertently reported with biased low Arsenic on CCV12 of run # 180280. Results are comparable to the initial report. Please see attached Corrective Action Report 7376.



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ASSET Laboratories

Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062272
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062272-001A	MW-39-040-0124	Groundwater	1/9/2024 10:05:00 AM	1/9/2024	1/25/2024
N062272-001B	MW-39-040-0124	Groundwater	1/9/2024 10:05:00 AM	1/9/2024	1/25/2024
N062272-001C	MW-39-040-0124	Groundwater	1/9/2024 10:05:00 AM	1/9/2024	1/25/2024
N062272-002A	MW-39-050-0124	Groundwater	1/9/2024 11:00:00 AM	1/9/2024	1/25/2024
N062272-002B	MW-39-050-0124	Groundwater	1/9/2024 11:00:00 AM	1/9/2024	1/25/2024
N062272-002C	MW-39-050-0124	Groundwater	1/9/2024 11:00:00 AM	1/9/2024	1/25/2024
N062272-003A	MW-39-060-0124	Groundwater	1/9/2024 11:24:00 AM	1/9/2024	1/25/2024
N062272-003B	MW-39-060-0124	Groundwater	1/9/2024 11:24:00 AM	1/9/2024	1/25/2024
N062272-003C	MW-39-060-0124	Groundwater	1/9/2024 11:24:00 AM	1/9/2024	1/25/2024
N062272-004A	MW-39-070-0124	Groundwater	1/9/2024 9:34:00 AM	1/9/2024	1/25/2024
N062272-004B	MW-39-070-0124	Groundwater	1/9/2024 9:34:00 AM	1/9/2024	1/25/2024
N062272-004C	MW-39-070-0124	Groundwater	1/9/2024 9:34:00 AM	1/9/2024	1/25/2024
N062272-005A	MW-39-080-0124	Groundwater	1/9/2024 10:33:00 AM	1/9/2024	1/25/2024
N062272-005B	MW-39-080-0124	Groundwater	1/9/2024 10:33:00 AM	1/9/2024	1/25/2024
N062272-005C	MW-39-080-0124	Groundwater	1/9/2024 10:33:00 AM	1/9/2024	1/25/2024
N062272-006A	MW-39-100-0124	Groundwater	1/9/2024 11:50:00 AM	1/9/2024	1/25/2024
N062272-006B	MW-39-100-0124	Groundwater	1/9/2024 11:50:00 AM	1/9/2024	1/25/2024
N062272-006C	MW-39-100-0124	Groundwater	1/9/2024 11:50:00 AM	1/9/2024	1/25/2024
N062272-007A	MW-30-050-0124	Groundwater	1/9/2024 12:46:00 PM	1/9/2024	1/25/2024
N062272-007B	MW-30-050-0124	Groundwater	1/9/2024 12:46:00 PM	1/9/2024	1/25/2024
N062272-007C	MW-30-050-0124	Groundwater	1/9/2024 12:46:00 PM	1/9/2024	1/25/2024
N062272-008A	MW-901-Q124	Groundwater	1/9/2024 12:56:00 PM	1/9/2024	1/25/2024
N062272-008B	MW-901-Q124	Groundwater	1/9/2024 12:56:00 PM	1/9/2024	1/25/2024
N062272-008C	MW-901-Q124	Groundwater	1/9/2024 12:56:00 PM	1/9/2024	1/25/2024
N062272-009A	MW-904-Q124	Groundwater	1/9/2024 3:02:00 PM	1/9/2024	1/25/2024
N062272-009B	MW-904-Q124	Groundwater	1/9/2024 3:02:00 PM	1/9/2024	1/25/2024
N062272-009C	MW-904-Q124	Groundwater	1/9/2024 3:02:00 PM	1/9/2024	1/25/2024
N062272-010A	PT5D-0124	Groundwater	1/9/2024 2:52:00 PM	1/9/2024	1/25/2024
N062272-010B	PT5D-0124	Groundwater	1/9/2024 2:52:00 PM	1/9/2024	1/25/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062272
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062272-010C	PT5D-0124	Groundwater	1/9/2024 2:52:00 PM	1/9/2024	1/25/2024
N062272-011A	PT6D-0124	Groundwater	1/9/2024 2:12:00 PM	1/9/2024	1/25/2024
N062272-011B	PT6D-0124	Groundwater	1/9/2024 2:12:00 PM	1/9/2024	1/25/2024
N062272-011C	PT6D-0124	Groundwater	1/9/2024 2:12:00 PM	1/9/2024	1/25/2024
N062272-012A	EB-704-Q124	Groundwater	1/9/2024 3:10:00 PM	1/9/2024	1/25/2024
N062272-013A	TW-02D-0124	Groundwater	1/9/2024 9:29:00 AM	1/9/2024	1/25/2024
N062272-013B	TW-02D-0124	Groundwater	1/9/2024 9:29:00 AM	1/9/2024	1/25/2024
N062272-013C	TW-02D-0124	Groundwater	1/9/2024 9:29:00 AM	1/9/2024	1/25/2024
N062272-014A	TW-02S-0124	Groundwater	1/9/2024 8:49:00 AM	1/9/2024	1/25/2024
N062272-014B	TW-02S-0124	Groundwater	1/9/2024 8:49:00 AM	1/9/2024	1/25/2024
N062272-014C	TW-02S-0124	Groundwater	1/9/2024 8:49:00 AM	1/9/2024	1/25/2024
N062272-015A	TW-03D-0124	Groundwater	1/9/2024 10:07:00 AM	1/9/2024	1/25/2024
N062272-015B	TW-03D-0124	Groundwater	1/9/2024 10:07:00 AM	1/9/2024	1/25/2024
N062272-015C	TW-03D-0124	Groundwater	1/9/2024 10:07:00 AM	1/9/2024	1/25/2024
N062272-016A	MW-82-046-0124	Groundwater	1/9/2024 11:11:00 AM	1/9/2024	1/25/2024
N062272-016B	MW-82-046-0124	Groundwater	1/9/2024 11:11:00 AM	1/9/2024	1/25/2024
N062272-016C	MW-82-046-0124	Groundwater	1/9/2024 11:11:00 AM	1/9/2024	1/25/2024
N062272-017A	MW-82-168-0124	Groundwater	1/9/2024 11:51:00 AM	1/9/2024	1/25/2024
N062272-017B	MW-82-168-0124	Groundwater	1/9/2024 11:51:00 AM	1/9/2024	1/25/2024
N062272-017C	MW-82-168-0124	Groundwater	1/9/2024 11:51:00 AM	1/9/2024	1/25/2024
N062272-018A	MW-82-198-0124	Groundwater	1/9/2024 12:30:00 PM	1/9/2024	1/25/2024
N062272-018B	MW-82-198-0124	Groundwater	1/9/2024 12:30:00 PM	1/9/2024	1/25/2024
N062272-018C	MW-82-198-0124	Groundwater	1/9/2024 12:30:00 PM	1/9/2024	1/25/2024
N062272-019A	MW-31-060-0124	Groundwater	1/9/2024 2:17:00 PM	1/9/2024	1/25/2024
N062272-019B	MW-31-060-0124	Groundwater	1/9/2024 2:17:00 PM	1/9/2024	1/25/2024
N062272-019C	MW-31-060-0124	Groundwater	1/9/2024 2:17:00 PM	1/9/2024	1/25/2024
N062272-020A	MW-31-135-0124	Groundwater	1/9/2024 1:37:00 PM	1/9/2024	1/25/2024
N062272-020B	MW-31-135-0124	Groundwater	1/9/2024 1:37:00 PM	1/9/2024	1/25/2024
N062272-020C	MW-31-135-0124	Groundwater	1/9/2024 1:37:00 PM	1/9/2024	1/25/2024
N062272-021A	EB-703-Q124	Groundwater	1/9/2024 2:30:00 PM	1/9/2024	1/25/2024



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-001

Client Sample ID: MW-39-040-0124
Collection Date: 1/9/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: **NV00922-IC7_240111A** QC Batch: **R180321** PrepDate: Analyst: **RAB**
Hexavalent Chromium ND 0.039 0.20 µg/L 1 1/11/2024 04:54 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-002

Client Sample ID: MW-39-050-0124
Collection Date: 1/9/2024 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/11/2024 05:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-003

Client Sample ID: MW-39-060-0124
Collection Date: 1/9/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039 0.20	µg/L	1 1/11/2024 08:37 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-004

Client Sample ID: MW-39-070-0124
Collection Date: 1/9/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: **NV00922-IC7_240113A** QC Batch: **R180348** PrepDate: Analyst: **RAB**
Hexavalent Chromium 4.3 0.039 0.20 µg/L 1 1/13/2024 04:41 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-005

Client Sample ID: MW-39-080-0124
Collection Date: 1/9/2024 10:33:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240113A	QC Batch: R180348			PrepDate:		Analyst: RAB
Hexavalent Chromium	11	0.039	0.20	µg/L	1	1/13/2024 05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-006

Client Sample ID: MW-39-100-0124
Collection Date: 1/9/2024 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321				PrepDate:		Analyst: RAB
Hexavalent Chromium	14	0.19	1.0		µg/L	5	1/11/2024 08:56 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-007

Client Sample ID: MW-30-050-0124
Collection Date: 1/9/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/11/2024 06:48 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-008

Client Sample ID: MW-901-Q124
Collection Date: 1/9/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/11/2024 07:21 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-009

Client Sample ID: MW-904-Q124
Collection Date: 1/9/2024 3:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB	
Hexavalent Chromium	44	0.77	4.0	µg/L	20	1/11/2024 03:58 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-010

Client Sample ID: PT5D-0124
Collection Date: 1/9/2024 2:52:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	44	0.77	4.0	µg/L	20	1/11/2024 04:17 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-011

Client Sample ID: PT6D-0124
Collection Date: 1/9/2024 2:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	8.0	0.039	0.20	µg/L	1	1/11/2024 09:15 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-012

Client Sample ID: EB-704-Q124
Collection Date: 1/9/2024 3:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240111A	QC Batch: R180321			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/11/2024 07:59 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-013

Client Sample ID: TW-02D-0124
Collection Date: 1/9/2024 9:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345			PrepDate:		Analyst: RAB
Hexavalent Chromium	1.6	0.039	0.20	µg/L	1	1/12/2024 02:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-014

Client Sample ID: TW-02S-0124
Collection Date: 1/9/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345				PrepDate:		Analyst: RAB
Hexavalent Chromium	24	0.19	1.0		µg/L	5	1/12/2024 12:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-015

Client Sample ID: TW-03D-0124
Collection Date: 1/9/2024 10:07:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240113A	QC Batch: R180348			PrepDate:		Analyst: RAB
Hexavalent Chromium	7.4	0.19	1.0	µg/L	5	1/13/2024 02:57 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-016

Client Sample ID: MW-82-046-0124
Collection Date: 1/9/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240113A	QC Batch: R180348			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/13/2024 03:44 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-017

Client Sample ID: MW-82-168-0124
Collection Date: 1/9/2024 11:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/12/2024 03:19 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-018

Client Sample ID: MW-82-198-0124
Collection Date: 1/9/2024 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240113A	QC Batch: R180348			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/13/2024 04:03 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-019

Client Sample ID: MW-31-060-0124
Collection Date: 1/9/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240113A	QC Batch: R180348			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/13/2024 04:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-020

Client Sample ID: MW-31-135-0124
Collection Date: 1/9/2024 1:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345			PrepDate:		Analyst: RAB
Hexavalent Chromium	16	0.19	1.0	µg/L	5	1/12/2024 02:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-021

Client Sample ID: EB-703-Q124
Collection Date: 1/9/2024 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/12/2024 04:35 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180321	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: PBW	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618108
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID LCS-R180321	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: LCSW	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618109
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.103	0.20	5.000	0	102 90 110

Sample ID N062238-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618114
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.903	0.20	1.000	0	90.3 90 110

Sample ID N062238-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618116
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.172	0.20	1.000	0.1605	101 90 110

Sample ID N062238-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618120
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.476	0.20	1.000	0.4638	101 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062241-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.384	1.0	5.000	0	108	90	110
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Sample ID N062272-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	141.974	4.0	100.0	44.31	97.7	90	110
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Sample ID N062272-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	141.848	4.0	100.0	43.51	98.3	90	110
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Sample ID N062272-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618133						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.163	0.20	1.000	0.1580	100	90	110
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Sample ID N062272-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618135						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.984	0.20	1.000	0	98.4	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-009ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618138							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.410	4.0						44.31	4.38	20	

Sample ID N062272-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618145							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.950	0.20	1.000	0	95.0	90	110				

Sample ID N062272-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618147							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.002	0.20	1.000	0	100	90	110				

Sample ID N062272-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618151							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.019	0.20	1.000	0	102	90	110				

Sample ID N062272-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618153							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.026	0.20	1.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618155							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	38.293	1.0	25.00	13.88	97.7	90	110				

Sample ID N062272-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618157							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.091	0.20	5.000	7.987	102	90	110				

Sample ID N062272-009AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5644538							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	136.592	4.0	100.0	44.31	92.3	90	110	142.0	3.86	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620688							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.651	0.20	1.000	1.648	100	90	110				

Sample ID N062272-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620690							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.992	1.0	25.00	15.74	97.0	90	110				

Sample ID N062272-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620692							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.929	0.20	1.000	0	92.9	90	110				

Sample ID N062311-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620696							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	51.597	1.0	25.00	27.07	98.1	90	110				

Sample ID N062272-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620698							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.051	0.20	1.000	0	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062274-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620700							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.972	0.20	1.000	0	97.2	90	110				

Sample ID N062274-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620702							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.082	0.20	1.000	0	108	90	110				

Sample ID N062274-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620706							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.332	0.20	1.000	0.4232	90.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180348	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: PBW	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620836						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID LCS-R180348	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: LCSW	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620837						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.037 0.20 5.000 0 101 90 110

Sample ID N062310-022AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 41.732 1.0 25.00 16.82 99.7 90 110

Sample ID N062310-022AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 41.481 1.0 25.00 16.82 98.7 90 110 41.73 0.604 20

Sample ID N062272-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 12.811 1.0 5.000 7.430 108 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062310-022ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620857							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	16.789	1.0						16.82	0.164	20	

Sample ID N062272-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.875	1.0	5.000	0	97.5	90	110				

Sample ID N062272-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.936	1.0	5.000	0	98.7	90	110				

Sample ID N062272-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620865							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.426	1.0	5.000	0	109	90	110				

Sample ID N062272-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.596	0.20	5.000	4.332	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620869							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	16.261	0.20	5.000	10.93	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-001

Client Sample ID: MW-39-040-0124
Collection Date: 1/9/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	160	6.9	10		mg/L	20	1/10/2024 08:37 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	1/10/2024 10:38 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-002

Client Sample ID: MW-39-050-0124
Collection Date: 1/9/2024 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	200	6.9	10		mg/L	20	1/10/2024 06:35 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	1/10/2024 10:53 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-003

Client Sample ID: MW-39-060-0124
Collection Date: 1/9/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	200	6.9	10		mg/L	20	1/10/2024 07:21 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	1/10/2024 11:08 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-004

Client Sample ID: MW-39-070-0124
Collection Date: 1/9/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	390	17	25		mg/L	50	1/10/2024 08:52 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	2.9	0.24	0.50		mg/L	10	1/10/2024 11:23 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-005

Client Sample ID: MW-39-080-0124
Collection Date: 1/9/2024 10:33:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	690	34	50		mg/L	100	1/10/2024 09:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	8.0	0.24	0.50		mg/L	10	1/10/2024 11:39 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-006

Client Sample ID: MW-39-100-0124
Collection Date: 1/9/2024 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Sulfate	760	34	50		mg/L	100	1/10/2024 09:23 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 11:54 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-007

Client Sample ID: MW-30-050-0124
Collection Date: 1/9/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	210	6.9	10		mg/L	20	1/10/2024 09:38 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	1/10/2024 12:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-008

Client Sample ID: MW-901-Q124
Collection Date: 1/9/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	210	6.9	10		mg/L	20	1/10/2024 09:54 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	1/10/2024 12:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-009

Client Sample ID: MW-904-Q124
Collection Date: 1/9/2024 3:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	880	34	50		mg/L	100	1/10/2024 10:09 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	0.59	0.24	0.50		mg/L	10	1/10/2024 01:11 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-010

Client Sample ID: PT5D-0124
Collection Date: 1/9/2024 2:52:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	890	34	50		mg/L	100	1/10/2024 10:24 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	0.58	0.24	0.50		mg/L	10	1/10/2024 01:26 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-011

Client Sample ID: PT6D-0124
Collection Date: 1/9/2024 2:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	490	17	25		mg/L	50	1/10/2024 10:40 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	0.66	0.24	0.50		mg/L	10	1/10/2024 02:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-013

Client Sample ID: TW-02D-0124
Collection Date: 1/9/2024 9:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	350	17	25		mg/L	50	1/10/2024 11:25 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 02:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-014

Client Sample ID: TW-02S-0124
Collection Date: 1/9/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	1/10/2024 11:41 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 03:13 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-015

Client Sample ID: TW-03D-0124
Collection Date: 1/9/2024 10:07:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	350	17	25		mg/L	50	1/10/2024 11:56 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 03:28 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-016

Client Sample ID: MW-82-046-0124
Collection Date: 1/9/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Sulfate	2100	69	100		mg/L	200	1/11/2024 12:11 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 04:14 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-017

Client Sample ID: MW-82-168-0124
Collection Date: 1/9/2024 11:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Sulfate	370	17	25		mg/L	50	1/11/2024 12:27 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 04:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-018

Client Sample ID: MW-82-198-0124
Collection Date: 1/9/2024 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Sulfate	360	17	25		mg/L	50	1/11/2024 12:42 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 04:45 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-019

Client Sample ID: MW-31-060-0124
Collection Date: 1/9/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Sulfate	470	17	25		mg/L	50	1/11/2024 12:57 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 06:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-020

Client Sample ID: MW-31-135-0124
Collection Date: 1/9/2024 1:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Sulfate	460	17	25		mg/L	50	1/11/2024 01:13 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240110A	QC Batch: R180258						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/10/2024 06:19 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R180258_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180258			
Client ID:	PBW	Batch ID:	R180258	TestNo:	EPA 300.0			Analysis Date:	1/10/2024	SeqNo:	5614119			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND		0.50										

Sample ID	LCS-R180258_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180258			
Client ID:	LCSW	Batch ID:	R180258	TestNo:	EPA 300.0			Analysis Date:	1/10/2024	SeqNo:	5614120			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		4.047		0.50	4.000	0		101	90	110				

Sample ID	N062272-002BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180258			
Client ID:	ZZZZZ	Batch ID:	R180258	TestNo:	EPA 300.0			Analysis Date:	1/10/2024	SeqNo:	5614126			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		280.410		10	80.00	199.6		101	80	120				

Sample ID	N062272-002BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180258			
Client ID:	ZZZZZ	Batch ID:	R180258	TestNo:	EPA 300.0			Analysis Date:	1/10/2024	SeqNo:	5614127			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		281.352		10	80.00	199.6		102	80	120	280.4	0.335	20	

Sample ID	N062272-003BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180258			
Client ID:	ZZZZZ	Batch ID:	R180258	TestNo:	EPA 300.0			Analysis Date:	1/10/2024	SeqNo:	5614129			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		196.404		10							196.7	0.175	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N062272-003BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ZZZZZZ	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	276.120	10	80.00	196.7	99.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N062272-006BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ZZZZZZ	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.654	0.50	12.50	0.3950	98.1	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-001

Client Sample ID: MW-39-040-0124
Collection Date: 1/9/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	370	13	20	µg/L	1	1/11/2024 01:38 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-002

Client Sample ID: MW-39-050-0124
Collection Date: 1/9/2024 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	29	13	20	µg/L	1	1/11/2024 01:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-003

Client Sample ID: MW-39-060-0124
Collection Date: 1/9/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	22	13	20	µg/L	1	1/11/2024 01:46 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-004

Client Sample ID: MW-39-070-0124
Collection Date: 1/9/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/11/2024 01:50 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-005

Client Sample ID: MW-39-080-0124
Collection Date: 1/9/2024 10:33:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/11/2024 02:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-006

Client Sample ID: MW-39-100-0124
Collection Date: 1/9/2024 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/11/2024 02:30 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-007

Client Sample ID: MW-30-050-0124
Collection Date: 1/9/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate:	1/10/2024	Analyst: DJ	
Iron	90	13	20		µg/L	1	1/11/2024 02:36 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-009

Client Sample ID: MW-904-Q124
Collection Date: 1/9/2024 3:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/11/2024 02:48 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-010

Client Sample ID: PT5D-0124
Collection Date: 1/9/2024 2:52:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/11/2024 02:53 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-011

Client Sample ID: PT6D-0124
Collection Date: 1/9/2024 2:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	31	13	20	µg/L	1	1/11/2024 02:59 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-014

Client Sample ID: TW-02S-0124
Collection Date: 1/9/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/11/2024 03:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-015

Client Sample ID: TW-03D-0124
Collection Date: 1/9/2024 10:07:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/11/2024 03:55 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-016

Client Sample ID: MW-82-046-0124
Collection Date: 1/9/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	4000	13	20	µg/L	1	1/11/2024 04:00 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-017

Client Sample ID: MW-82-168-0124
Collection Date: 1/9/2024 11:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	74	13	20	µg/L	1	1/11/2024 04:06 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-018

Client Sample ID: MW-82-198-0124
Collection Date: 1/9/2024 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ
Iron	26	13	20	µg/L	1	1/11/2024 04:11 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-019

Client Sample ID: MW-31-060-0124
Collection Date: 1/9/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	240	13	20	µg/L	1	1/11/2024 04:17 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-020

Client Sample ID: MW-31-135-0124
Collection Date: 1/9/2024 1:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240111A	QC Batch: 105958			PrepDate: 1/10/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/11/2024 04:23 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-105958	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180292
Client ID: PBW	Batch ID: 105958	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/11/2024	SeqNo: 5616796
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID LCS-105958	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180292
Client ID: LCSW	Batch ID: 105958	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/11/2024	SeqNo: 5616797
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	108.942	20	100.0	0	109 85 115

Sample ID N062272-004C-MS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180292
Client ID: ZZZZZZ	Batch ID: 105958	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/11/2024	SeqNo: 5616804
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	100.244	20	100.0	0	100 75 125

Sample ID N062272-004C-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180292
Client ID: ZZZZZZ	Batch ID: 105958	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/11/2024	SeqNo: 5616807
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	99.301	20	100.0	0	99.3 75 125 100.2 0.946 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL RESULTS

Print Date: 12-Feb-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-39-040-0124
Lab Order: N062272	
Project: PG&E Topock - PCM, 30121866	Collection Date: 1/9/2024 10:05:00 AM
Lab ID: N062272-001	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240129A	QC Batch: 105955			PrepDate: 1/10/2024		Analyst: DJ
Arsenic	15	0.050	0.10	µg/L	1	1/29/2024 08:18 PM
Barium	120	0.083	1.0	µg/L	1	1/11/2024 05:10 AM
Manganese	140	0.026	0.50	µg/L	1	1/11/2024 05:10 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 12-Feb-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-39-050-0124
Lab Order: N062272	
Project: PG&E Topock - PCM, 30121866	Collection Date: 1/9/2024 11:00:00 AM
Lab ID: N062272-002	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240129A	QC Batch: 105955			PrepDate: 1/10/2024		Analyst: DJ
Arsenic	1.8	0.050	0.10	µg/L	1	1/29/2024 08:22 PM
Barium	48	0.083	1.0	µg/L	1	1/11/2024 05:14 AM
Manganese	230	0.26	5.0	µg/L	10	1/11/2024 07:21 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 12-Feb-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-39-060-0124
Lab Order:	N062272		
Project:	PG&E Topock - PCM, 30121866	Collection Date:	1/9/2024 11:24:00 AM
Lab ID:	N062272-003	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240129A	QC Batch: 105955			PrepDate: 1/10/2024		Analyst: DJ
Arsenic	1.9	0.050	0.10	µg/L	1	1/29/2024 08:27 PM
Barium	26	0.083	1.0	µg/L	1	1/11/2024 05:19 AM
Manganese	140	0.026	0.50	µg/L	1	1/11/2024 05:19 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 12-Feb-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-39-070-0124
Lab Order: N062272	
Project: PG&E Topock - PCM, 30121866	Collection Date: 1/9/2024 9:34:00 AM
Lab ID: N062272-004	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

	EPA 3010A			EPA 6020			
RunID: NV00922-ICP8_240129A	QC Batch: 105955			PrepDate: 1/10/2024		Analyst: DJ	
Arsenic	0.74	0.050	0.10	µg/L	1	1/29/2024 08:32 PM	
Barium	46	0.083	1.0	µg/L	1	1/11/2024 05:24 AM	
Manganese	18	0.026	0.50	µg/L	1	1/11/2024 05:24 AM	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-005

Client Sample ID: MW-39-080-0124
Collection Date: 1/9/2024 10:33:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024	06:01 AM
Barium	36	0.083	1.0	µg/L	1	1/11/2024	06:01 AM
Manganese	4.8	0.026	0.50	µg/L	1	1/11/2024	06:01 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-006

Client Sample ID: MW-39-100-0124
Collection Date: 1/9/2024 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024	06:06 AM
Barium	35	0.083	1.0	µg/L	1	1/11/2024	06:06 AM
Manganese	10	0.026	0.50	µg/L	1	1/11/2024	06:06 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-007

Client Sample ID: MW-30-050-0124
Collection Date: 1/9/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	3.4	0.050	0.10	µg/L	1	1/11/2024 06:10 AM	
Barium	22	0.083	1.0	µg/L	1	1/11/2024 06:10 AM	
Manganese	360	0.26	5.0	µg/L	10	1/11/2024 07:26 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-008

Client Sample ID: MW-901-Q124
Collection Date: 1/9/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	3.7	0.050	0.10	µg/L	1	1/11/2024 06:15 AM	
Barium	23	0.083	1.0	µg/L	1	1/11/2024 06:15 AM	
Manganese	390	0.26	5.0	µg/L	10	1/11/2024 07:31 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-009

Client Sample ID: MW-904-Q124
Collection Date: 1/9/2024 3:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024 06:20 AM	
Barium	23	0.083	1.0	µg/L	1	1/11/2024 06:20 AM	
Manganese	22	0.026	0.50	µg/L	1	1/11/2024 06:20 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-010

Client Sample ID: PT5D-0124
Collection Date: 1/9/2024 2:52:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024	06:24 AM
Barium	23	0.083	1.0	µg/L	1	1/11/2024	06:24 AM
Manganese	20	0.026	0.50	µg/L	1	1/11/2024	06:24 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-011

Client Sample ID: PT6D-0124
Collection Date: 1/9/2024 2:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024	06:29 AM
Barium	40	0.083	1.0	µg/L	1	1/11/2024	06:29 AM
Manganese	7.0	0.026	0.50	µg/L	1	1/11/2024	06:29 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-013

Client Sample ID: TW-02D-0124
Collection Date: 1/9/2024 9:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	3.5	0.050	0.10	µg/L	1	1/11/2024	06:34 AM
Barium	14	0.083	1.0	µg/L	1	1/11/2024	06:34 AM
Manganese	40	0.026	0.50	µg/L	1	1/11/2024	06:34 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-014

Client Sample ID: TW-02S-0124
Collection Date: 1/9/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024 06:52 AM	
Barium	150	0.083	1.0	µg/L	1	1/11/2024 06:52 AM	
Manganese	ND	0.026	0.50	µg/L	1	1/11/2024 06:52 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-015

Client Sample ID: TW-03D-0124
Collection Date: 1/9/2024 10:07:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	1.9	0.050	0.10	µg/L	1	1/11/2024 07:55 PM	
Barium	37	0.083	1.0	µg/L	1	1/11/2024 06:57 AM	
Manganese	23	0.026	0.50	µg/L	1	1/11/2024 06:57 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-016

Client Sample ID: MW-82-046-0124
Collection Date: 1/9/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	4.9	0.050	0.10	µg/L	1	1/11/2024 07:02 AM	
Barium	66	0.083	1.0	µg/L	1	1/11/2024 07:02 AM	
Manganese	160	0.026	0.50	µg/L	1	1/11/2024 07:02 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-017

Client Sample ID: MW-82-168-0124
Collection Date: 1/9/2024 11:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024 07:06 AM	
Barium	28	0.083	1.0	µg/L	1	1/11/2024 07:06 AM	
Manganese	42	0.026	0.50	µg/L	1	1/11/2024 07:06 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-018

Client Sample ID: MW-82-198-0124
Collection Date: 1/9/2024 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240115F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	0.54	0.050	0.10	µg/L	1	1/15/2024 07:56 PM	
Barium	43	0.083	1.0	µg/L	1	1/11/2024 07:11 AM	
Manganese	28	0.026	0.50	µg/L	1	1/11/2024 07:11 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-019

Client Sample ID: MW-31-060-0124
Collection Date: 1/9/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024 07:16 AM	
Barium	370	0.83	10	µg/L	10	1/11/2024 07:45 PM	
Manganese	1700	0.26	5.0	µg/L	10	1/11/2024 07:45 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 25-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062272
Project: PG&E Topock - PCM, 30121866
Lab ID: N062272-020

Client Sample ID: MW-31-135-0124
Collection Date: 1/9/2024 1:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240110F	QC Batch:	105955	PrepDate:	1/10/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/11/2024 07:20 AM	
Barium	41	0.083	1.0	µg/L	1	1/11/2024 07:20 AM	
Manganese	24	0.026	0.50	µg/L	1	1/11/2024 07:20 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-105955	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180280						
Client ID: PBW	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616229						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID LCS-105955	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180280						
Client ID: LCSW	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616230						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	10.434	1.0	10.00	0	104	85	115				
Manganese	97.345	0.50	100.0	0	97.3	85	115				

Sample ID N062272-004C-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180280						
Client ID: ZZZZZ	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	53.747	1.0	10.00	46.45	72.9	75	125				S
Manganese	105.971	0.50	100.0	18.11	87.9	75	125				

Sample ID N062272-004C-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180280						
Client ID: ZZZZZ	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616240						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	54.032	1.0	10.00	46.45	75.8	75	125	53.75	0.529	20	
Manganese	105.937	0.50	100.0	18.11	87.8	75	125	106.0	0.0327	20	

Sample ID MB-105955	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180905						
Client ID: PBW	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/29/2024	SeqNo: 5655383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-105955	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180905						
Client ID: PBW	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/29/2024	SeqNo: 5655383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID LCS-105955	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180905						
Client ID: LCSW	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/29/2024	SeqNo: 5655384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 10.233 0.10 10.00 0 102 85 115

Sample ID N062272-004C-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180905						
Client ID: ZZZZZ	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/29/2024	SeqNo: 5655391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 10.767 0.10 10.00 0.7374 100 75 125

Sample ID N062272-004C-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/10/2024	RunNo: 180905						
Client ID: ZZZZZ	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/29/2024	SeqNo: 5655392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 10.339 0.10 10.00 0.7374 96.0 75 125 10.77 4.05 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N062272-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ZZZZZZ	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/11/2024	SeqNo: 5616236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	56.774	1.0	10.00	46.45	103	80	120				
Manganese	106.051	0.50	100.0	18.11	87.9	80	120				

Sample ID N062272-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ZZZZZZ	Batch ID: 105955	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/29/2024	SeqNo: 5655390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.458	0.10	10.00	0.7374	97.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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SAMPLE RECEIVING ITEMS



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Page 1 of 1

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition																							
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Y N																							
Address: Roseville, CA 95678		Email: dan_bush@arcadis.com daniel.moore@critigen.com		Address:		GeoTracker		RWQCB		1. Chilled																							
Phone: 916-786-3302		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		LabSpec		CalTrans		2. Headspace																							
Fax:				P.O.#		Others		LEVEL III		3. Container Intact																							
Submitted By: <i>Riggs Top</i>		Phone: 916-786-3302		Fax:		Specify: RWQCB		LEVEL IV		4. Seal Present																							
Title: <i>Field Tech</i>						Global ID:		Regulatory		5. IR number <i>3</i>																							
Signature: <i>[Signature]</i> Date: <i>01/09/24</i>		Sampled By: <i>Riggs Top</i>						Specify State:		6. Method of Cooling: <i>ICE</i>																							
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for litigation below.		Project Name: PG&E Topock - PCM		Project Number: 30121866		Signature: <i>[Signature]</i> Date: <i>01/09/24</i>		Matrix				Sample Temp: <i>3.2°C, 0.9°C</i>																					
								Ground		250 mL poly		1 L poly		500mL poly		500mL poly		Sample Receipt Condition															
								X Sediment																									
Potable		Soil		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW602) FF: HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW602) FF: HNO3 Total Dissolved Chromium,																							
NPDES		Other Solid						Dissolved metals (SW602) FF: HNO3 Selenium, Molybdenum		Total Organic Carbon (SM5310C); H2SO4		Ammonia as Nitrogen (SM4500NH3D); H2SO4		Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)		Turn Around Time		No. of Container		Container Type		PRESERVATION		Remarks							
Surface																																	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others																							
1		N062272-001		MW-39-040-0124		1/9/2024		10:05				X		X		X																	
2		-002		MW-39-050-0124		1/9/2024		11:00				X		X		X																	
3		-003		MW-39-060-0124		1/9/2024		11:24				X		X		X																	
4		-004		MW-39-070-0124		1/9/2024		9:34				X		X		X																	
5		-005		MW-39-080-0124		1/9/2024		10:33				X		X		X																	
6		-006		MW-39-100-0124		1/9/2024		11:40 <i>11:50</i>				X		X		X																	
7		-007		MW-30-050-0124		1/9/2024		12:46				X		X		X																	
8		-008		MW-901-Q124		1/9/2024		12:56				X		X		X																	
9		-009		MW-904-Q124		1/9/2024		15:02				X		X		X																	
10		-010		PT5D-0124		1/9/2024		14:52				X		X		X																	
11		-011		PT6D-0124		1/9/2024		14:12				X		X		X																	
12		-012		EB-704-Q124		1/9/2024		15:10				X																					
13																																	
14																																	
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>01/09/24 1550</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/9/24 1550</i>		Turn Around Time (TAT)		Special Instruction:																											
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/9/24 1828</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/9/24 1828</i>		A < 24 Hrs or Same Day TAT																													
Relinquished by (Signature and Printed Name):		Relinquished by (Signature and Printed Name):		B = Next Workday																													
				C = 2 Workdays																													
				D = 3 Workdays																													
				E = Routine 5-7 Workdays																													
TAT Starts at 8 AM the following day if samples received after 3:00PM.																																	
Preservatives:		Container Type:																															
H=HCL		N=HNO3		S=H2SO4		C=4°C		I=Tube		V=VOA		P=Pin																					
Z=Zn(AC)2		O=NaOH		T=Na2S2O3				J=Jar		B=Tedlar		G=Glass																					
Others/Specify: B		(NH4)2SO4/NH4OH						M=Metal		M=Metal		C=Can																					

White=Laboratory Copy

Yellow=Customer's Copy



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition									
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Y N									
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com daniel.moore@cutigen.com		Address:		Geotracker		RWQCB		1 Chilled									
Phone: 916-786-3302 Fax:		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com P.O.#		Labspec		CalTrans		2. Headspace									
Submitted By: <i>Rossie Top</i>		Phone: 916-786-3302 Fax:		Phone: 949-727-1400, ext 200 Fax:		Others		LEVEL III		3. Container Intact									
Title: <i>Field Tech</i>		Signature: <i>Rossie Top</i> Date: <i>01/09/24</i>		Sampled By: <i>Rossie Top</i> Date: <i>01/09/24</i>		Specify: RWQCB		LEVEL IV		4. Seal Present									
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample, I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Matrix		Global ID:		Regulatory		5. IR number									
Project Name: PG&E Topock - PCM		Project Number: 30121866		Ground		Specify State:		Global ID:		6. Method of Cooling: <i>ICE</i>									
Sample ID/Location		Sample Date		Sample Time		Others		Global ID:		Sample Temp: <i>3.2°C, 5.4°C</i>									
Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,		Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum		Total Organic Carbon (SM5310C); H2SO4									
Ammonia as Nitrogen (SM4500NH3D); H2SO4		Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)		Turn Around Time		No. of Container		Container Type									
PRESERVATION		Remarks		PRESERVATION		PRESERVATION		PRESERVATION		PRESERVATION									
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum	Total Organic Carbon (SM5310C); H2SO4	Ammonia as Nitrogen (SM4500NH3D); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Nitrate (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N062272-013	✓ TW-02D-0124	1/9/2024	9:29		X	X	X							E 3	P	BNS		
2	-014	✓ TW-02S-0124	1/9/2024	8:49		X	X	X							E 3	P	BNS		
3	-015	✓ TW-03D-0124	1/9/2024	10:07		X	X	X							E 3	P	BNS		
4	-016	✓ MW-82-046-0124	1/9/2024	11:11		X	X	X							E 3	P	BNS		
5	-017	✓ MW-82-168-0124	1/9/2024	11:51		X	X	X							E 3	P	BNS		
6	-018	✓ MW-82-198-0124	1/9/2024	12:30		X	X	X							E 3	P	BNS		
7	-019	✓ MW-31-060-0124	1/9/2024	14:17		X	X	X							E 3	P	BNS		
8	-020	✓ MW-31-135-0124	1/9/2024	13:37		X	X	X							E 3	P	BNS		
9	-021	✓ EB-703-Q124	1/9/2024	14:30		X									E 3	P	BNS		
10															E 3	P	BNS		
11															E 3	P	BNS		
12															E 3	P	BNS		
13															E 3	P	BNS		
14															E 3	P	BNS		

Relinquished by (Signature and Printed Name): *Rossie Top* Date/Time: *01/09/24 1550*
 Relinquished by (Signature and Printed Name): *John STEL PUA* Date/Time: *1/9/24 1550*
 Relinquished by (Signature and Printed Name): *John STEL PUA* Date/Time: *1/9/24 1828*
 Relinquished by (Signature and Printed Name): *John STEL PUA* Date/Time: *1/9/24 1828*

Turn Around Time (TAT)
 A < 24 Hrs or Same Day TAT
 B = Next Workday
 C = 2 Workdays
 D = 3 Workdays
 E = Routine 5-7 Workdays
 Special Instruction:

Terms:
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
 Less than 24 Hrs. =20% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
 3. Custom EDD formats will be an additional 3% of the total project price.
 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project
 5. Trip Blanks and Equipment Blanks are billable sample.
 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
 7. Times are not 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:
 H=HCL N=HNO3 S=H2SO4 C=4°C
 Z=Zn(AC)2 O=NaOH T=Na2S2O3
 Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
 T=Tube V=VOA P=Pin
 J=Jar B=Tedlar G=Glass
 M=Metal M=Metal C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/9/2024 Workorder: N062272
 Rep sample Temp (Deg C): 3.2/0.9/3.2/5.4 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input checked="" type="checkbox"/>
Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input type="checkbox"/>
NA <input type="checkbox"/> |

Comments: See correspondence.

For:
 Checklist Completed By: AIP *Efanegof* 1/10/2024

for: *Jmaprabins*
 Reviewed By: MBC 1/15/2024

Subject: RE: PG&E Topock - PCM, 30121866 (ASSET Labs No. N062272 and N062273)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 1/10/2024, 2:34 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "jimuel.penafiel@assetlaboratoriesph.com" <jimuel.penafiel@assetlaboratoriesph.com>, "eilen@assetlaboratories.com" <eilen@assetlaboratories.com>

Hi Yoandra,

The sample IDs should both end with "Q124". The labels inadvertently left off the ending.

Thanks,

Laura

Laura Madsen PG

Project Geologist

Arcadis U.S., Inc.
M +1 303 653 5749

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Wednesday, January 10, 2024 4:26 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: maryann.balilu@assetlaboratoriesph.com; jimuel.penafiel@assetlaboratoriesph.com; eilen@assetlaboratories.com
Subject: PG&E Topock - PCM, 30121866 (ASSET Labs No. N062272 and N062273)

Hi Laura,

Please advise on the following discrepancies for the attached COCs:

- Sample 8: ID is MW-901-Q124 on COC and MW-901 on labels
- Sample 9: ID is MW-904-Q124 on COC and MW-904 on labels

--

Thanks,

Yoandra Rodriguez
Project Manager

Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-001A	MW-39-040-0124	1/9/2024 10:05:00 AM	1/24/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-001B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-001C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-002A	MW-39-050-0124	1/9/2024 11:00:00 AM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-002B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-002C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-003A	MW-39-060-0124	1/9/2024 11:24:00 AM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-003B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-003C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-004A	MW-39-070-0124	1/9/2024 9:34:00 AM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-004B	MW-39-070-0124	1/9/2024 9:34:00 AM	1/24/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-004C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-005A	MW-39-080-0124	1/9/2024 10:33:00 AM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-005B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-005C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-006A	MW-39-100-0124	1/9/2024 11:50:00 AM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-006B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-006C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-007A	MW-30-050-0124	1/9/2024 12:46:00 PM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-007B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-007B	MW-30-050-0124	1/9/2024 12:46:00 PM	1/24/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-007C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-008A	MW-901-Q124	1/9/2024 12:56:00 PM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-008B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-008C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-009A	MW-904-Q124	1/9/2024 3:02:00 PM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-009B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-009C			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-010A	PT5D-0124	1/9/2024 2:52:00 PM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-010B			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-010C	PT5D-0124	1/9/2024 2:52:00 PM	1/24/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-011A	PT6D-0124	1/9/2024 2:12:00 PM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-011B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-011C			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-012A	EB-704-Q124	1/9/2024 3:10:00 PM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-013A	TW-02D-0124	1/9/2024 9:29:00 AM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-013B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-013C			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-014A	TW-02S-0124	1/9/2024 8:49:00 AM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-014B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-014C	TW-02S-0124	1/9/2024 8:49:00 AM	1/24/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-015A	TW-03D-0124	1/9/2024 10:07:00 AM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-015B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-015C			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-016A	MW-82-046-0124	1/9/2024 11:11:00 AM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-016B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-016C			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-017A	MW-82-168-0124	1/9/2024 11:51:00 AM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-017B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-017C			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-017C	MW-82-168-0124	1/9/2024 11:51:00 AM	1/24/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-018A	MW-82-198-0124	1/9/2024 12:30:00 PM	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-018B			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-018C			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-019A	MW-31-060-0124	1/9/2024 2:17:00 PM	1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			N062272-019B	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-019C			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-020A	MW-31-135-0124	1/9/2024 1:37:00 PM	1/24/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			N062272-020B	1/24/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062272-020C			1/24/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/24/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	

ASSET Laboratories

WORK ORDER Summary

09-Jan-24

WorkOrder: N062272

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/9/2024 6:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062272-020C	MW-31-135-0124	1/9/2024 1:37:00 PM	1/24/2024	Groundwater	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-021A	EB-703-Q124	1/9/2024 2:30:00 PM	1/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062272-022A	FOLDER	1/24/2024	1/24/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/24/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/24/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062272

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R180345
ASSET #: N062272

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 1/12/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X	X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X					X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer RB 01152024

Date: _____
Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180348
 ASSET #: N062272

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 1/13/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X	X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X					X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer RB 01172024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062272-006A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.7754 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 13.8770$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 14$$

Reviewed by:

d/Recha 1/29/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 10:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/11/24 10:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/11/24 11:03 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/11/24 11:13 AM	Reported
13	MB-R180321	MBLK	1	Hexavalent Chromium	01/11/24 11:22 AM	Reported
14	LCS-R180321	LCS	1	Hexavalent Chromium	01/11/24 11:32 AM	Reported
15	N062314-003B	SAMP	1	Hexavalent Chromium	01/11/24 11:58 AM	Reported
16	N062314-003BREP	DUP	1	Hexavalent Chromium	01/11/24 12:11 PM	Reported
17	N062314-003BMS	MS	1	Hexavalent Chromium	01/11/24 12:21 PM	Reported
18	N062238-001A	SAMP	1	Hexavalent Chromium	01/11/24 12:50 PM	Reported
19	N062238-001AMS	MS	1	Hexavalent Chromium	01/11/24 1:03 PM	Reported
20	N062238-002A	SAMP	1	Hexavalent Chromium	01/11/24 1:13 PM	Reported
21	N062238-002AMS	MS	1	Hexavalent Chromium	01/11/24 1:22 PM	Reported
22	N062238-003A	SAMP	1	Hexavalent Chromium	01/11/24 1:31 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/11/24 1:41 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/11/24 1:50 PM	Reported
25	N062238-003AMS	MS	1	Hexavalent Chromium	01/11/24 2:00 PM	Reported
26	N062241-008A	SAMP	5	Hexavalent Chromium	01/11/24 2:09 PM	Reported
27	N062241-008AMS	MS	5	Hexavalent Chromium	01/11/24 2:21 PM	Reported
28	N062279-021A	SAMP	1	Hexavalent Chromium	01/11/24 2:33 PM	Reported
29	N062279-022A	SAMP	1	Hexavalent Chromium	01/11/24 2:42 PM	Reported
30	N062279-023A	SAMP	1	Hexavalent Chromium	01/11/24 2:52 PM	Reported
31	N062272-006A	SAMP	20	Hexavalent Chromium	01/11/24 3:01 PM	Not Reported
32	N062272-006AMS	MS	20	Hexavalent Chromium	01/11/24 3:10 PM	Not Reported
33	N062272-006AMSD	MSD	20	Hexavalent Chromium	01/11/24 3:20 PM	Not Reported
34	N062272-006ADUP	DUP	20	Hexavalent Chromium	01/11/24 3:29 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/11/24 3:39 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/11/24 3:48 PM	Reported
37	N062272-009A	SAMP	20	Hexavalent Chromium	01/11/24 3:58 PM	Reported
38	N062272-009AMS	MS	20	Hexavalent Chromium	01/11/24 4:07 PM	Reported
39	N062272-010A	SAMP	20	Hexavalent Chromium	01/11/24 4:17 PM	Reported
40	N062272-010AMS	MS	20	Hexavalent Chromium	01/11/24 4:26 PM	Reported
41	N062272-011A	SAMP	10	Hexavalent Chromium	01/11/24 4:36 PM	Not Reported
42	N062272-011AMS	MS	10	Hexavalent Chromium	01/11/24 4:45 PM	Not Reported

Mocha 1/29/2024
for RBA **127**

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-001A	SAMP	1	Hexavalent Chromium	01/11/24 4:54 PM	Reported
44	N062272-001AMS	MS	1	Hexavalent Chromium	01/11/24 5:04 PM	Reported
45	N062272-002A	SAMP	1	Hexavalent Chromium	01/11/24 5:13 PM	Reported
46	N062272-002AMS	MS	1	Hexavalent Chromium	01/11/24 5:23 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/11/24 5:32 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/11/24 5:42 PM	Reported
49	N062272-009ADUP	DUP	20	Hexavalent Chromium	01/11/24 5:51 PM	Reported
50	N062272-009AMS ^D	MS ^D	20	Hexavalent Chromium	01/11/24 6:01 PM	Not Reported
51	N062272-004A	SAMP	1	Hexavalent Chromium	01/11/24 6:10 PM	Not Reported
52	N062272-004AMS	MS	1	Hexavalent Chromium	01/11/24 6:20 PM	Not Reported
53	N062272-005A	SAMP	1	Hexavalent Chromium	01/11/24 6:29 PM	Not Reported
54	N062272-005AMS	MS	1	Hexavalent Chromium	01/11/24 6:39 PM	Not Reported
55	N062272-007A	SAMP	1	Hexavalent Chromium	01/11/24 6:48 PM	Reported
56	N062272-007AMS	MS	1	Hexavalent Chromium	01/11/24 7:10 PM	Reported
57	N062272-008A	SAMP	1	Hexavalent Chromium	01/11/24 7:21 PM	Reported
58	N062272-008AMS	MS	1	Hexavalent Chromium	01/11/24 7:31 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/11/24 7:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/11/24 7:50 PM	Reported
61	N062272-012A	SAMP	1	Hexavalent Chromium	01/11/24 7:59 PM	Reported
62	N062272-012AMS	MS	1	Hexavalent Chromium	01/11/24 8:09 PM	Reported
63	N062272-001A	SAMP	5	Hexavalent Chromium	01/11/24 8:18 PM	Not Reported
64	N062272-001AMS	MS	5	Hexavalent Chromium	01/11/24 8:28 PM	Not Reported
65	N062272-003A	SAMP	1	Hexavalent Chromium	01/11/24 8:37 PM	Reported
66	N062272-003AMS	MS	1	Hexavalent Chromium	01/11/24 8:47 PM	Reported
67	N062272-006A	SAMP	5	Hexavalent Chromium	01/11/24 8:56 PM	Reported
68	N062272-006AMS	MS	5	Hexavalent Chromium	01/11/24 9:05 PM	Reported
69	N062272-011A	SAMP	1	Hexavalent Chromium	01/11/24 9:15 PM	Reported
70	N062272-011AMS	MS	1	Hexavalent Chromium	01/11/24 9:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 9:34 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 9:43 PM	Reported
73	N062272-011A	SAMP	5	Hexavalent Chromium	01/11/24 9:53 PM	Not Reported
74	N062272-011AMS	MS	5	Hexavalent Chromium	01/11/24 10:02 PM	Not Reported
75	MB-R180322	MBLK	1	Hexavalent Chromium	01/11/24 10:12 PM	Reported
76	LCS-R180322	LCS	1	Hexavalent Chromium	01/11/24 10:21 PM	Reported
77	N062307-001A	SAMP	1	Hexavalent Chromium	01/11/24 10:31 PM	Reported
78	N062307-001ADUP	DUP	1	Hexavalent Chromium	01/11/24 10:40 PM	Reported
79	N062307-001AMS	MS	1	Hexavalent Chromium	01/11/24 10:49 PM	Reported
80	N062307-001AMSD	MSD	1	Hexavalent Chromium	01/11/24 10:59 PM	Reported
81	N062308-001A	SAMP	1	Hexavalent Chromium	01/11/24 11:08 PM	Reported
82	N062308-002A	SAMP	1	Hexavalent Chromium	01/11/24 11:18 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 11:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 11:37 PM	Reported

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062309-007A	SAMP	1	Hexavalent Chromium	01/11/24 11:46 PM	Reported
86	N062309-007AMS	MS	1	Hexavalent Chromium	01/11/24 11:56 PM	Reported
87	N062309-007AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:05 AM	Reported
88	N062309-008A	SAMP	1	Hexavalent Chromium	01/12/24 12:15 AM	Reported
89	N062309-008AMS	MS	1	Hexavalent Chromium	01/12/24 12:24 AM	Reported
90	N062309-008AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:33 AM	Reported
91	N062309-001A	SAMP	50	Hexavalent Chromium	01/12/24 12:43 AM	Not Reported
92	N062309-002A	SAMP	1	Hexavalent Chromium	01/12/24 12:52 AM	Reported
93	N062309-003A	SAMP	5	Hexavalent Chromium	01/12/24 1:02 AM	Reported
94	N062309-004A	SAMP	1	Hexavalent Chromium	01/12/24 1:11 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/12/24 1:21 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/12/24 1:30 AM	Reported
97	N062309-005A	SAMP	5	Hexavalent Chromium	01/12/24 1:40 AM	Reported
98	N062309-006A	SAMP	1	Hexavalent Chromium	01/12/24 1:49 AM	Reported
99	N062309-009A	SAMP	1	Hexavalent Chromium	01/12/24 1:59 AM	Reported
100	N062309-010A	SAMP	1	Hexavalent Chromium	01/12/24 2:08 AM	Reported
101	N062272-004AMS	MS	1	Hexavalent Chromium	01/12/24 2:18 AM	Not Reported
102	CCV-9	CCV	1	Hexavalent Chromium	01/12/24 2:27 AM	Reported
103	CCB-9	CCB	1	Hexavalent Chromium	01/12/24 2:36 AM	Reported
104	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 2:46 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240111A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Jan/24 03:16:42
No. of Injections:	107	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/11/2024 10:43	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/11/2024 10:54	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		01/11/2024 11:03	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/11/2024 11:13	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/11/2024 11:22	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/11/2024 11:32	Finished	LCS @5ppb, IWST-231228B
15	N062314-003B,SAMF	1	1000	Unknown		01/11/2024 11:58	Finished	SAMP,10 mL
16	N062314-003BREP,D	2	1000	Unknown		01/11/2024 12:11	Finished	REP,10 mL
17	N062314-003BMS,MS	3	1000	Unknown		01/11/2024 12:21	Finished	MS (1ppb), IWST-231228B,10r
18	N062238-001A,SAMF	1	1000	Unknown		01/11/2024 12:50	Finished	SAMP,10 mL
19	N062238-001AMS,MS	2	1000	Unknown		01/11/2024 13:03	Finished	MS (1ppb), IWST-231228B,10r
20	N062238-002A,SAMF	3	1000	Unknown		01/11/2024 13:13	Finished	SAMP,10 mL
21	N062238-002AMS,MS	4	1000	Unknown		01/11/2024 13:22	Finished	MS (1ppb), IWST-231228B,10r
22	N062238-003A,SAMF	5	1000	Unknown		01/11/2024 13:31	Finished	SAMP,10 mL
23	CCV-2.CCV1,1,	6	1000	Unknown		01/11/2024 13:41	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	7	1000	Unknown		01/11/2024 13:50	Finished	CCB R231030A
25	N062238-003AMS,MS	8	1000	Unknown		01/11/2024 14:00	Finished	MS (1ppb), IWST-231228B,10r
26	N062241-008A,SAMF	9	1000	Unknown		01/11/2024 14:09	Finished	SAMP,2>10 mL
27	N062241-008AMS,MS	1	1000	Unknown		01/11/2024 14:21	Finished	MS (1ppb), IWST-231228B,2>1
28	N062279-021A,SAMF	2	1000	Unknown		01/11/2024 14:33	Finished	SAMP,10 mL
29	N062279-022A,SAMF	3	1000	Unknown		01/11/2024 14:42	Finished	SAMP,10 mL
30	N062279-023A,SAMF	4	1000	Unknown		01/11/2024 14:52	Finished	SAMP,10 mL
31	N062272-006A,SAMF	5	1000	Unknown		01/11/2024 15:01	Finished	SAMP,0.5>10 mL
32	N062272-006AMS,MS	6	1000	Unknown		01/11/2024 15:10	Finished	MS (5ppb), IWST-231228B,0.5
33	N062272-006AMSD,MS	7	1000	Unknown		01/11/2024 15:20	Finished	MSD (5ppb), IWST-231228B,0
34	N062272-006ADUP,D	8	1000	Unknown		01/11/2024 15:29	Finished	DUP,0.5>10 mL
35	CCV-3.CCV,1,	9	1000	Unknown		01/11/2024 15:39	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	10	1000	Unknown		01/11/2024 15:48	Finished	CCB R231030A
37	N062272-009A,SAMF	11	1000	Unknown		01/11/2024 15:58	Finished	SAMP,0.5>10 mL
38	N062272-009AMS,MS	12	1000	Unknown		01/11/2024 16:07	Finished	MS (5ppb), IWST-231228B,0.5
39	N062272-010A,SAMF	13	1000	Unknown		01/11/2024 16:17	Finished	SAMP,0.5>10 mL
40	N062272-010AMS,MS	14	1000	Unknown		01/11/2024 16:26	Finished	MS (5ppb), IWST-231228B,0.5
41	N062272-011A,SAMF	15	1000	Unknown		01/11/2024 16:36	Finished	SAMP,1>10 mL
42	N062272-011AMS,MS	16	1000	Unknown		01/11/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062272-001A,SAMF	17	1000	Unknown		01/11/2024 16:54	Finished	SAMP,10 mL
44	N062272-001AMS,MS	18	1000	Unknown		01/11/2024 17:04	Finished	MS (1ppb), IWST-231228B,10r
45	N062272-002A,SAMF	19	1000	Unknown		01/11/2024 17:13	Finished	SAMP,10 mL
46	N062272-002AMS,MS	20	1000	Unknown		01/11/2024 17:23	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	21	1000	Unknown		01/11/2024 17:32	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	22	1000	Unknown		01/11/2024 17:42	Finished	CCB R231030A
49	N062272-009ADUP,D	23	1000	Unknown		01/11/2024 17:51	Finished	DUP,0.5>10 mL
50	N062272-009AMS,MS	24	1000	Unknown		01/11/2024 18:01	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-004A,SAMF	25	1000	Unknown		01/11/2024 18:10	Finished	SAMP,10 mL
52	N062272-004AMS,MS	26	1000	Unknown		01/11/2024 18:20	Finished	MS (1ppb), IWST-231228B,10r
53	N062272-005A,SAMF	27	1000	Unknown		01/11/2024 18:29	Finished	SAMP,10 mL
54	N062272-005AMS,MS	28	1000	Unknown		01/11/2024 18:39	Finished	MS (1ppb), IWST-231228B,10r
55	N062272-007A,SAMF	29	1000	Unknown		01/11/2024 18:48	Finished	SAMP,10 mL
56	N062272-007AMS,MS	1	1000	Unknown		01/11/2024 19:10	Finished	MS (1ppb), IWST-231228B,10r
57	N062272-008A,SAMF	2	1000	Unknown		01/11/2024 19:21	Finished	SAMP,10 mL
58	N062272-008AMS,MS	3	1000	Unknown		01/11/2024 19:31	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5.CCV,1,	4	1000	Unknown		01/11/2024 19:40	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	5	1000	Unknown		01/11/2024 19:50	Finished	CCB R231227C

61	N062272-012A,SAMF	6	1000	Unknown	01/11/2024 19:59	Finished	SAMP,10 mL
62	N062272-012AMS,MS	7	1000	Unknown	01/11/2024 20:09	Finished	MS (1ppb), IWST-231228B,10r
63	N062272-001A,SAMF	8	1000	Unknown	01/11/2024 20:18	Finished	SAMP,2>10 mL
64	N062272-001AMS,MS	9	1000	Unknown	01/11/2024 20:28	Finished	MS (1ppb), IWST-231228B,2>1
65	N062272-003A,SAMF	10	1000	Unknown	01/11/2024 20:37	Finished	SAMP,10 mL
66	N062272-003AMS,MS	11	1000	Unknown	01/11/2024 20:47	Finished	MS (1ppb), IWST-231228B,10r
67	N062272-006A,SAMF	12	1000	Unknown	01/11/2024 20:56	Finished	SAMP,2>10 mL
68	N062272-006AMS,MS	13	1000	Unknown	01/11/2024 21:05	Finished	MS (5ppb), IWST-231228B,2>1
69	N062272-011A,SAMF	14	1000	Unknown	01/11/2024 21:15	Finished	SAMP,10 mL
70	N062272-011AMS,MS	15	1000	Unknown	01/11/2024 21:24	Finished	MS (5ppb), IWST-231228B,10r
71	CCV-6.CCV1,1,	16	1000	Unknown	01/11/2024 21:34	Finished	CCV @10ppb, IWST-231228A
72	CCB-6.CCB,1,	17	1000	Unknown	01/11/2024 21:43	Finished	CCB R231227C
73	N062272-011A,SAMF	18	1000	Unknown	01/11/2024 21:53	Finished	SAMP,2>10 mL
74	N062272-011AMS,MS	19	1000	Unknown	01/11/2024 22:02	Finished	MS (1ppb), IWST-231228B,2>1
75	MB-2.MBLK,1,	20	1000	Unknown	01/11/2024 22:12	Finished	MB R231227C
76	LCS-2.LCS,1,	21	1000	Unknown	01/11/2024 22:21	Finished	LCS @5ppb, IWST-231228B
77	N062307-001A,SAMF	22	1000	Unknown	01/11/2024 22:31	Finished	SAMP,10 mL
78	N062307-001ADUP,C	23	1000	Unknown	01/11/2024 22:40	Finished	DUP,10 mL
79	N062307-001AMS,MS	24	1000	Unknown	01/11/2024 22:49	Finished	MS (1ppb), IWST-231228B,10r
80	N062307-001AMSD,N	25	1000	Unknown	01/11/2024 22:59	Finished	MSD (1ppb), IWST-231228B,10
81	N062308-001A,SAMF	26	1000	Unknown	01/11/2024 23:08	Finished	SAMP,10 mL
82	N062308-002A,SAMF	27	1000	Unknown	01/11/2024 23:18	Finished	SAMP,10 mL
83	CCV-7.CCV,1,	28	1000	Unknown	01/11/2024 23:27	Finished	CCV @5ppb, IWST-231228A
84	CCB-7.CCB,1,	29	1000	Unknown	01/11/2024 23:37	Finished	CCB R231227C
85	N062309-007A,SAMF	30	1000	Unknown	01/11/2024 23:46	Finished	SAMP,10 mL
86	N062309-007AMS,MS	31	1000	Unknown	01/11/2024 23:56	Finished	MS (1ppb), IWST-231228B,10r
87	N062309-007AMSD,N	32	1000	Unknown	01/12/2024 00:05	Finished	MSD (1ppb), IWST-231228B,10
88	N062309-008A,SAMF	33	1000	Unknown	01/12/2024 00:15	Finished	SAMP,10 mL
89	N062309-008AMS,MS	34	1000	Unknown	01/12/2024 00:24	Finished	MS (1ppb), IWST-231228B,10r
90	N062309-008AMSD,N	35	1000	Unknown	01/12/2024 00:33	Finished	MSD (1ppb), IWST-231228B,10
91	N062309-001A,SAMF	36	1000	Unknown	01/12/2024 00:43	Finished	SAMP,0.2>10 mL
92	N062309-002A,SAMF	37	1000	Unknown	01/12/2024 00:52	Finished	SAMP,10 mL
93	N062309-003A,SAMF	38	1000	Unknown	01/12/2024 01:02	Finished	SAMP,2>10 mL
94	N062309-004A,SAMF	39	1000	Unknown	01/12/2024 01:11	Finished	SAMP,10 mL
95	CCV-8.CCV1,1,	40	1000	Unknown	01/12/2024 01:21	Finished	CCV @10ppb, IWST-231228A
96	CCB-8.CCB,1,	41	1000	Unknown	01/12/2024 01:30	Finished	CCB R231227C
97	N062309-005A,SAMF	42	1000	Unknown	01/12/2024 01:40	Finished	SAMP,2>10 mL
98	N062309-006A,SAMF	43	1000	Unknown	01/12/2024 01:49	Finished	SAMP,10 mL
99	N062309-009A,SAMF	44	1000	Unknown	01/12/2024 01:59	Finished	SAMP,10 mL
100	N062309-010A,SAMF	45	1000	Unknown	01/12/2024 02:08	Finished	SAMP,10 mL
101	N062272-004AMS,MS	46	1000	Unknown	01/12/2024 02:18	Finished	MS (5ppb), IWST-231228B,10r
102	CCV-9.CCV,1,	47	1000	Unknown	01/12/2024 02:27	Finished	CCV @5ppb, IWST-231228A
103	CCB-9.CCB,1,	48	1000	Unknown	01/12/2024 02:36	Finished	CCB R231227C
104	BLANK	49	1000	Unknown	01/12/2024 02:46	Finished	BLANK
105	SHUTDOWN	50	1000	Unknown	01/12/2024 02:55	Finished	
106	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
107	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 10:28 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/12/24 10:41 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 10:50 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/12/24 11:00 AM	Reported
13	MB-R180345	MBLK	1	Hexavalent Chromium	01/12/24 11:13 AM	Reported
14	LCS-R180345	LCS	1	Hexavalent Chromium	01/12/24 11:22 AM	Reported
15	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 12:24 PM	Reported
16	N062272-014A	SAMP	5	Hexavalent Chromium	01/12/24 12:39 PM	Reported
17	N062272-014ADUP	DUP	5	Hexavalent Chromium	01/12/24 12:48 PM	Reported
18	N062345-005B	SAMP	1	Hexavalent Chromium	01/12/24 12:58 PM	Reported
19	N062345-005BREP	DUP	1	Hexavalent Chromium	01/12/24 1:07 PM	Reported
20	N062345-005BMS	MS	1	Hexavalent Chromium	01/12/24 1:17 PM	Reported
21	N062272-014AMS	MS	5	Hexavalent Chromium	01/12/24 1:26 PM	Reported
22	N062272-014AMSD	MSD	5	Hexavalent Chromium	01/12/24 1:35 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/12/24 1:45 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/12/24 1:54 PM	Reported
25	N062272-013A	SAMP	1	Hexavalent Chromium	01/12/24 2:04 PM	Reported
26	N062272-013AMS	MS	1	Hexavalent Chromium	01/12/24 2:13 PM	Reported
27	N062272-020A	SAMP	5	Hexavalent Chromium	01/12/24 2:23 PM	Reported
28	N062272-020AMS	MS	5	Hexavalent Chromium	01/12/24 2:32 PM	Reported
29	N062272-015A	SAMP	1	Hexavalent Chromium	01/12/24 2:42 PM	Not Reported
30	N062272-015AMS	MS	1	Hexavalent Chromium	01/12/24 2:51 PM	Not Reported
31	N062272-016A	SAMP	1	Hexavalent Chromium	01/12/24 3:01 PM	Not Reported
32	N062272-016AMS	MS	1	Hexavalent Chromium	01/12/24 3:10 PM	Not Reported
33	N062272-017A	SAMP	1	Hexavalent Chromium	01/12/24 3:19 PM	Reported
34	N062272-017AMS	MS	1	Hexavalent Chromium	01/12/24 3:29 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/12/24 3:38 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/12/24 3:48 PM	Reported
37	N062311-001A	SAMP	5	Hexavalent Chromium	01/12/24 3:57 PM	Reported
38	N062311-001AMS	MS	5	Hexavalent Chromium	01/12/24 4:07 PM	Reported
39	N062272-019A	SAMP	1	Hexavalent Chromium	01/12/24 4:16 PM	Not Reported
40	N062272-019AMS	MS	1	Hexavalent Chromium	01/12/24 4:26 PM	Not Reported
41	N062272-021A	SAMP	1	Hexavalent Chromium	01/12/24 4:35 PM	Reported
42	N062272-021AMS	MS	1	Hexavalent Chromium	01/12/24 4:45 PM	Reported

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062274-001A	SAMP	1	Hexavalent Chromium	01/12/24 4:54 PM	Reported
44	N062274-001AMS	MS	1	Hexavalent Chromium	01/12/24 5:06 PM	Reported
45	N062274-002A	SAMP	1	Hexavalent Chromium	01/12/24 5:17 PM	Reported
46	N062274-002AMS	MS	1	Hexavalent Chromium	01/12/24 5:26 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/12/24 5:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/12/24 5:45 PM	Reported
49	N062274-003A	SAMP	1	Hexavalent Chromium	01/12/24 5:54 PM	Reported
50	N062274-003AMS	MS	1	Hexavalent Chromium	01/12/24 6:04 PM	Reported
51	N062272-015A	SAMP	5	Hexavalent Chromium	01/12/24 6:13 PM	Not Reported
52	N062272-015AMS	MS	5	Hexavalent Chromium	01/12/24 6:23 PM	Not Reported
53	N062272-016A	SAMP	5	Hexavalent Chromium	01/12/24 6:32 PM	Not Reported
54	N062272-016AMS	MS	5	Hexavalent Chromium	01/12/24 6:42 PM	Not Reported
55	N062310-002A	SAMP	1	Hexavalent Chromium	01/12/24 6:51 PM	Reported
56	N062310-003A	SAMP	20	Hexavalent Chromium	01/12/24 7:01 PM	Reported
57	N062272-018A	SAMP	5	Hexavalent Chromium	01/12/24 7:10 PM	Not Reported
58	N062272-018AMS	MS	5	Hexavalent Chromium	01/12/24 7:20 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/12/24 7:29 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/12/24 7:39 PM	Reported
61	N062272-019A	SAMP	5	Hexavalent Chromium	01/12/24 7:48 PM	Not Reported
62	N062272-019AMS	MS	5	Hexavalent Chromium	01/12/24 7:57 PM	Not Reported
63	N062272-018A	SAMP	1	Hexavalent Chromium	01/12/24 8:07 PM	Not Reported
64	N062272-018AMS	MS	1	Hexavalent Chromium	01/12/24 8:16 PM	Not Reported
65	N062309-011A	SAMP	5	Hexavalent Chromium	01/12/24 8:26 PM	Reported
66	N062309-012A	SAMP	1	Hexavalent Chromium	01/12/24 8:35 PM	Reported
67	N062309-013A	SAMP	1	Hexavalent Chromium	01/12/24 8:45 PM	Reported
68	N062310-001A	SAMP	1	Hexavalent Chromium	01/12/24 8:54 PM	Reported
69	MB-R180346	MBLK	1	Hexavalent Chromium	01/12/24 9:04 PM	Reported
70	LCS-R180346	LCS	1	Hexavalent Chromium	01/12/24 9:13 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/12/24 9:23 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/12/24 9:32 PM	Reported
73	N062310-016A	SAMP	5	Hexavalent Chromium	01/12/24 9:41 PM	Reported
74	N062310-016AMS	MS	5	Hexavalent Chromium	01/12/24 9:51 PM	Reported
75	N062310-016AMSD	MSD	5	Hexavalent Chromium	01/12/24 10:00 PM	Reported
76	N062310-019A	SAMP	20	Hexavalent Chromium	01/12/24 10:10 PM	Reported
77	N062310-019AMS	MS	20	Hexavalent Chromium	01/12/24 10:19 PM	Reported
78	N062310-019AMSD	MSD	20	Hexavalent Chromium	01/12/24 10:29 PM	Reported
79	N062310-005A	SAMP	1	Hexavalent Chromium	01/12/24 10:38 PM	Reported
80	N062310-005ADUP	DUP	1	Hexavalent Chromium	01/12/24 10:48 PM	Reported
81	N062310-006A	SAMP	1	Hexavalent Chromium	01/12/24 10:57 PM	Reported
82	N062310-007A	SAMP	1	Hexavalent Chromium	01/12/24 11:07 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/12/24 11:16 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/12/24 11:26 PM	Reported

INJECTION LOG: 240112A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062310-008A	SAMP	1	Hexavalent Chromium	01/12/24 11:35 PM	Reported
86	N062310-009A	SAMP	1	Hexavalent Chromium	01/12/24 11:44 PM	Reported
87	N062310-010A	SAMP	1	Hexavalent Chromium	01/12/24 11:54 PM	Reported
88	N062310-011A	SAMP	1	Hexavalent Chromium	01/13/24 12:03 AM	Reported
89	N062310-012A	SAMP	5	Hexavalent Chromium	01/13/24 12:13 AM	Reported
90	N062310-013A	SAMP	5	Hexavalent Chromium	01/13/24 12:22 AM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/13/24 12:32 AM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/13/24 12:41 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Jan/24 11:55:15
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/12/2024 10:28	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/12/2024 10:41	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		01/12/2024 10:50	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/12/2024 11:00	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/12/2024 11:13	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/12/2024 11:22	Finished	LCS @5ppb, IWST-231228B
15	PQL@0.2ppb.CCV2,	1	1000	Unknown		01/12/2024 12:24	Finished	PQL @ 0.2ppb
16	N062272-014A,SAMF	2	1000	Unknown		01/12/2024 12:39	Finished	SAMP,2>10 mL
17	N062272-014ADUP,E	3	1000	Unknown		01/12/2024 12:48	Finished	DUP,2>10 mL
18	N062345-005B,SAMF	4	1000	Unknown		01/12/2024 12:58	Finished	SAMP,10 mL
19	N062345-005BREP,E	5	1000	Unknown		01/12/2024 13:07	Finished	REP,10 mL
20	N062345-005BMS,MS	6	1000	Unknown		01/12/2024 13:17	Finished	MS (1ppb), IWST-231228B,1>
21	N062272-014AMS,MS	7	1000	Unknown		01/12/2024 13:26	Finished	MS (5ppb), IWST-231228B,2>
22	N062272-014AMSD,N	8	1000	Unknown		01/12/2024 13:35	Finished	MSD (5ppb), IWST-231228B,2>
23	CCV-2.CCV1,1,	9	1000	Unknown		01/12/2024 13:45	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		01/12/2024 13:54	Finished	CCB R231030A
25	N062272-013A,SAMF	11	1000	Unknown		01/12/2024 14:04	Finished	SAMP,10 mL
26	N062272-013AMS,MS	12	1000	Unknown		01/12/2024 14:13	Finished	MS (1ppb), IWST-231228B,1>
27	N062272-020A,SAMF	13	1000	Unknown		01/12/2024 14:23	Finished	SAMP,2>10 mL
28	N062272-020AMS,MS	14	1000	Unknown		01/12/2024 14:32	Finished	MS (5ppb), IWST-231228B,2>
29	N062272-015A,SAMF	15	1000	Unknown		01/12/2024 14:42	Finished	SAMP,10 mL
30	N062272-015AMS,MS	16	1000	Unknown		01/12/2024 14:51	Finished	MS (1ppb), IWST-231228B,1>
31	N062272-016A,SAMF	17	1000	Unknown		01/12/2024 15:01	Finished	SAMP,10 mL
32	N062272-016AMS,MS	18	1000	Unknown		01/12/2024 15:10	Finished	MS (1ppb), IWST-231228B,1>
33	N062272-017A,SAMF	19	1000	Unknown		01/12/2024 15:19	Finished	SAMP,10 mL
34	N062272-017AMS,MS	20	1000	Unknown		01/12/2024 15:29	Finished	MS (1ppb), IWST-231228B,1>
35	CCV-3.CCV,1,	21	1000	Unknown		01/12/2024 15:38	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	22	1000	Unknown		01/12/2024 15:48	Finished	CCB R231030A
37	N062311-001A,SAMF	23	1000	Unknown		01/12/2024 15:57	Finished	SAMP,2>10 mL
38	N062311-001AMS,MS	24	1000	Unknown		01/12/2024 16:07	Finished	MS (5ppb), IWST-231228B,2>
39	N062272-019A,SAMF	25	1000	Unknown		01/12/2024 16:16	Finished	SAMP,10 mL
40	N062272-019AMS,MS	26	1000	Unknown		01/12/2024 16:26	Finished	MS (1ppb), IWST-231228B,1>
41	N062272-021A,SAMF	27	1000	Unknown		01/12/2024 16:35	Finished	SAMP,1>10 mL
42	N062272-021AMS,MS	28	1000	Unknown		01/12/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062274-001A,SAMF	29	1000	Unknown		01/12/2024 16:54	Finished	SAMP,10 mL
44	N062274-001AMS,MS	1	1000	Unknown		01/12/2024 17:06	Finished	MS (1ppb), IWST-231228B,10r
45	N062274-002A,SAMF	2	1000	Unknown		01/12/2024 17:17	Finished	SAMP,10 mL
46	N062274-002AMS,MS	3	1000	Unknown		01/12/2024 17:26	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	4	1000	Unknown		01/12/2024 17:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	5	1000	Unknown		01/12/2024 17:45	Finished	CCB R231030A
49	N062274-003A,SAMF	6	1000	Unknown		01/12/2024 17:54	Finished	DUP,0.5>10 mL
50	N062274-003AMS,MS	7	1000	Unknown		01/12/2024 18:04	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-015A,SAMF	8	1000	Unknown		01/12/2024 18:13	Finished	SAMP,2>10 mL
52	N062272-015AMS,MS	9	1000	Unknown		01/12/2024 18:23	Finished	MS (1ppb), IWST-231228B,2>
53	N062272-016A,SAMF	10	1000	Unknown		01/12/2024 18:32	Finished	SAMP,2>10 mL
54	N062272-016AMS,MS	11	1000	Unknown		01/12/2024 18:42	Finished	MS (1ppb), IWST-231228B,2>
55	N062310-002A,SAMF	12	1000	Unknown		01/12/2024 18:51	Finished	SAMP,10 mL
56	N062310-003A,SAMF	13	1000	Unknown		01/12/2024 19:01	Finished	SAMP,2>10 mL
57	N062272-018A,SAMF	14	1000	Unknown		01/12/2024 19:10	Finished	SAMP,2>10 mL
58	N062272-018AMS,MS	15	1000	Unknown		01/12/2024 19:20	Finished	MS (1ppb), IWST-231228B,2>
59	CCV-5.CCV,1,	16	1000	Unknown		01/12/2024 19:29	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	17	1000	Unknown		01/12/2024 19:39	Finished	CCB R231227C

61	N062272-019A,SAMF	18	1000	Unknown	01/12/2024 19:48	Finished	SAMP,2>10 mL
62	N062272-019AMS,MS	19	1000	Unknown	01/12/2024 19:57	Finished	MS (1ppb), IWST-231228B,2>1
63	N062272-018A,SAMF	20	1000	Unknown	01/12/2024 20:07	Finished	SAMP,10 mL
64	N062272-018AMS,MS	21	1000	Unknown	01/12/2024 20:16	Finished	MS (1ppb), IWST-231228B,1>1
65	N062309-011A,SAMF	22	1000	Unknown	01/12/2024 20:26	Finished	SAMP,2>10 mL
66	N062309-012A,SAMF	23	1000	Unknown	01/12/2024 20:35	Finished	SAMP,10 mL
67	N062309-013A,SAMF	24	1000	Unknown	01/12/2024 20:45	Finished	SAMP,10 mL
68	N062310-001A,SAMF	25	1000	Unknown	01/12/2024 20:54	Finished	SAMP,10 mL
69	MB-2,MBLK,1,	26	1000	Unknown	01/12/2024 21:04	Finished	MB R231227C
70	LCS-2,LCS,1,	27	1000	Unknown	01/12/2024 21:13	Finished	LCS @5ppb, IWST-231228B
71	CCV-6,CCV1,1,	28	1000	Unknown	01/12/2024 21:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown	01/12/2024 21:32	Finished	CCB R231227C
73	N062310-016A,SAMF	30	1000	Unknown	01/12/2024 21:41	Finished	SAMP,2>10 mL
74	N062310-016AMS,MS	31	1000	Unknown	01/12/2024 21:51	Finished	MS (5ppb), IWST-231228B,2>1
75	N062310-016AMSD,MS	32	1000	Unknown	01/12/2024 22:00	Finished	MSD (5ppb), IWST-231228B,2
76	N062310-019A,SAMF	33	1000	Unknown	01/12/2024 22:10	Finished	SAMP,0.5>10 mL
77	N062310-019AMS,MS	34	1000	Unknown	01/12/2024 22:19	Finished	MS (5ppb), IWST-231228B,0.5
78	N062310-019AMSD,MS	35	1000	Unknown	01/12/2024 22:29	Finished	MSD (5ppb), IWST-231228B,0
79	N062310-005A,SAMF	36	1000	Unknown	01/12/2024 22:38	Finished	SAMP,10 mL
80	N062310-005ADUP,1,	37	1000	Unknown	01/12/2024 22:48	Finished	DUP,10 mL
81	N062310-006A,SAMF	38	1000	Unknown	01/12/2024 22:57	Finished	SAMP,10 mL
82	N062310-007A,SAMF	39	1000	Unknown	01/12/2024 23:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown	01/12/2024 23:16	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown	01/12/2024 23:26	Finished	CCB R231227C
85	N062310-008A,SAMF	42	1000	Unknown	01/12/2024 23:35	Finished	SAMP,10 mL
86	N062310-009A,SAMF	43	1000	Unknown	01/12/2024 23:44	Finished	SAMP,10 mL
87	N062310-010A,SAMF	44	1000	Unknown	01/12/2024 23:54	Finished	SAMP,10 mL
88	N062310-011A,SAMF	45	1000	Unknown	01/13/2024 00:03	Finished	SAMP,10 mL
89	N062310-012A,SAMF	46	1000	Unknown	01/13/2024 00:13	Finished	SAMP,2>10 mL
90	N062310-013A,SAMF	47	1000	Unknown	01/13/2024 00:22	Finished	SAMP,2>10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown	01/13/2024 00:32	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown	01/13/2024 00:41	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown	01/13/2024 00:51	Finished	
94	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
95	PCR: R240108B	CurrentVia	1000	Unknown	n.a.	Finished	



INJECTION LOG: 240113A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	CCV-1	CCV	1	Hexavalent Chromium	01/13/24 10:51 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/13/24 11:02 AM	Reported
11	CCB-1	CCB	1	Hexavalent Chromium	01/13/24 11:12 AM	Reported
12	MB-R180348	MBLK	1	Hexavalent Chromium	01/13/24 11:21 AM	Reported
13	LCS-R180348	LCS	1	Hexavalent Chromium	01/13/24 11:31 AM	Reported
14	N062371-001B	SAMP	1	Hexavalent Chromium	01/13/24 11:40 AM	Reported
15	N062371-001BREP	DUP	1	Hexavalent Chromium	01/13/24 11:50 AM	Reported
16	N062371-001BMS	MS	1	Hexavalent Chromium	01/13/24 12:24 PM	Reported
17	N062310-022A	SAMP	5	Hexavalent Chromium	01/13/24 12:37 PM	Reported
18	N062310-015A	SAMP	10	Hexavalent Chromium	01/13/24 12:46 PM	Reported
19	N062310-017A	SAMP	10	Hexavalent Chromium	01/13/24 12:56 PM	Reported
20	N062310-018A	SAMP	10	Hexavalent Chromium	01/13/24 1:05 PM	Reported
21	N062310-023A	SAMP	10	Hexavalent Chromium	01/13/24 1:15 PM	Reported
22	CCV-2	CCV1	1	Hexavalent Chromium	01/13/24 1:24 PM	Reported
23	CCB-2	CCB	1	Hexavalent Chromium	01/13/24 1:34 PM	Reported
24	N062310-022AMS	MS	5	Hexavalent Chromium	01/13/24 1:48 PM	Reported
25	N062310-022AMSD	MSD	5	Hexavalent Chromium	01/13/24 2:00 PM	Reported
26	N062310-004A	SAMP	20	Hexavalent Chromium	01/13/24 2:10 PM	Reported
27	N062310-014A	SAMP	1	Hexavalent Chromium	01/13/24 2:19 PM	Reported
28	N062310-020A	SAMP	1	Hexavalent Chromium	01/13/24 2:29 PM	Reported
29	N062310-021A	SAMP	1	Hexavalent Chromium	01/13/24 2:38 PM	Reported
30	N062310-024A	SAMP	1	Hexavalent Chromium	01/13/24 2:48 PM	Reported
31	N062272-015A	SAMP	5	Hexavalent Chromium	01/13/24 2:57 PM	Reported
32	N062272-015AMS	MS	5	Hexavalent Chromium	01/13/24 3:07 PM	Reported
33	N062310-022ADUP	DUP	5	Hexavalent Chromium	01/13/24 3:16 PM	Reported
34	CCV-3	CCV	1	Hexavalent Chromium	01/13/24 3:25 PM	Reported
35	CCB-3	CCB	1	Hexavalent Chromium	01/13/24 3:35 PM	Reported
36	N062272-016A	SAMP	5	Hexavalent Chromium	01/13/24 3:44 PM	Reported
37	N062272-016AMS	MS	5	Hexavalent Chromium	01/13/24 3:54 PM	Reported
38	N062272-018A	SAMP	5	Hexavalent Chromium	01/13/24 4:03 PM	Reported
39	N062272-018AMS	MS	5	Hexavalent Chromium	01/13/24 4:13 PM	Reported
40	N062272-019A	SAMP	5	Hexavalent Chromium	01/13/24 4:22 PM	Reported
41	N062272-019AMS	MS	5	Hexavalent Chromium	01/13/24 4:32 PM	Reported
42	N062272-004A	SAMP	1	Hexavalent Chromium	01/13/24 4:41 PM	Reported

INJECTION LOG: 240113A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-004AMS	MS	1	Hexavalent Chromium	01/13/24 4:51 PM	Reported
44	N062272-005A	SAMP	1	Hexavalent Chromium	01/13/24 5:00 PM	Reported
45	N062272-005AMS	MS	1	Hexavalent Chromium	01/13/24 5:10 PM	Reported
46	CCV-4	CCV1	1	Hexavalent Chromium	01/13/24 5:19 PM	Reported
47	CCB-4	CCB	1	Hexavalent Chromium	01/13/24 5:28 PM	Reported
48	N062192-009A	SAMP	1	Hexavalent Chromium	01/13/24 5:38 PM	Reported
49	N062309-001A	SAMP	1	Hexavalent Chromium	01/13/24 5:47 PM	Reported
50	MB-R180349	MBLK	1	Hexavalent Chromium	01/13/24 5:57 PM	Reported
51	LCS-R180349	LCS	1	Hexavalent Chromium	01/13/24 6:06 PM	Reported
52	N062350-018A	SAMP	1	Hexavalent Chromium	01/13/24 6:16 PM	Reported
53	N062350-018AMS	MS	1	Hexavalent Chromium	01/13/24 6:25 PM	Reported
54	N062350-018AMSD	MSD	1	Hexavalent Chromium	01/13/24 6:35 PM	Reported
55	N062350-001A	SAMP	1	Hexavalent Chromium	01/13/24 6:44 PM	Reported
56	N062350-001ADUP	DUP	1	Hexavalent Chromium	01/13/24 6:54 PM	Reported
57	N062350-001AMS	MS	1	Hexavalent Chromium	01/13/24 7:03 PM	Reported
58	CCV-5	CCV	1	Hexavalent Chromium	01/13/24 7:13 PM	Reported
59	CCB-5	CCB	1	Hexavalent Chromium	01/13/24 7:22 PM	Reported
60	N062350-002A	SAMP	1	Hexavalent Chromium	01/13/24 9:45 PM	Not Reported
61	N062350-003A	SAMP	20	Hexavalent Chromium	01/13/24 9:45 PM	Not Reported
62	N062350-004A	SAMP	5	Hexavalent Chromium	01/13/24 9:57 PM	Reported
63	N062350-005A	SAMP	1	Hexavalent Chromium	01/13/24 10:06 PM	Reported
64	N062350-006A	SAMP	10	Hexavalent Chromium	01/13/24 10:16 PM	Reported
65	N062350-007A	SAMP	1	Hexavalent Chromium	01/13/24 10:25 PM	Reported
66	N062350-008A	SAMP	5	Hexavalent Chromium	01/13/24 10:35 PM	Reported
67	N062350-009A	SAMP	1	Hexavalent Chromium	01/13/24 10:44 PM	Reported
68	N062350-010A	SAMP	1	Hexavalent Chromium	01/13/24 10:53 PM	Reported
69	N062350-011A	SAMP	1	Hexavalent Chromium	01/13/24 11:03 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	01/13/24 11:12 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	01/13/24 11:22 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	01/13/24 11:31 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	14/Jan/24 00:02:05
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	CCV-1,CCV,1,	1	1000	Unknown		01/13/2024 10:51	Finished	CCV @5ppb, IWST-231228A
10	PQL@0.2ppb,CCV2,	2	1000	Unknown		01/13/2024 11:02	Finished	PQL @ 0.2ppb
11	CCB-1,CCB,1,	3	1000	Unknown		01/13/2024 11:12	Finished	CCB R231227C
12	MB-H2O,MBLK,1,	4	1000	Unknown		01/13/2024 11:21	Finished	MB R231227C
13	LCS-H2O,LCS,1,	5	1000	Unknown		01/13/2024 11:31	Finished	LCS @5ppb, IWST-231228B
14	N062371-001B,SAMF	6	1000	Unknown		01/13/2024 11:40	Finished	SAMP,10 mL
15	N062371-001BREP,D	7	1000	Unknown		01/13/2024 11:50	Finished	REP,10 mL
16	N062371-001BMS,M	1	1000	Unknown		01/13/2024 12:24	Finished	MS (1ppb), IWST-231228B,10r
17	N062310-022A,SAMF	2	1000	Unknown		01/13/2024 12:37	Finished	SAMP,2>10 mL
18	N062310-015A,SAMF	3	1000	Unknown		01/13/2024 12:46	Finished	SAMP,1>10 mL
19	N062310-017A,SAMF	4	1000	Unknown		01/13/2024 12:56	Finished	SAMP,1>10 mL
20	N062310-018A,SAMF	5	1000	Unknown		01/13/2024 13:05	Finished	SAMP,1>10 mL
21	N062310-023A,SAMF	6	1000	Unknown		01/13/2024 13:15	Finished	SAMP,1>10 mL
22	CCV-2,CCV1,1,	7	1000	Unknown		01/13/2024 13:24	Finished	CCV @10ppb, IWST-231228A
23	CCB-2,CCB,1,	8	1000	Unknown		01/13/2024 13:34	Finished	CCB R231030A
24	N062310-022AMS,M	1	1000	Unknown		01/13/2024 13:48	Finished	MS (5ppb), IWST-231228B,2>
25	N062310-022AMSD,N	2	1000	Unknown		01/13/2024 14:00	Finished	MSD (5ppb), IWST-231228B,2
26	N062310-004A,SAMF	3	1000	Unknown		01/13/2024 14:10	Finished	SAMP,0.5>10 mL
27	N062310-014A,SAMF	4	1000	Unknown		01/13/2024 14:19	Finished	SAMP,10 mL
28	N062310-020A,SAMF	5	1000	Unknown		01/13/2024 14:29	Finished	SAMP,10 mL
29	N062310-021A,SAMF	6	1000	Unknown		01/13/2024 14:38	Finished	SAMP,10 mL
30	N062310-024A,SAMF	7	1000	Unknown		01/13/2024 14:48	Finished	SAMP,10 mL
31	N062272-015A,SAMF	8	1000	Unknown		01/13/2024 14:57	Finished	SAMP,2>10 mL
32	N062272-015AMS,M	9	1000	Unknown		01/13/2024 15:07	Finished	MS (1ppb), IWST-231228B,2>
33	N062310-022ADUP,D	10	1000	Unknown		01/13/2024 15:16	Finished	DUP,2>10 mL
34	CCV-3,CCV,1,	11	1000	Unknown		01/13/2024 15:25	Finished	CCV @5ppb, IWST-231228A
35	CCB-3,CCB,1,	12	1000	Unknown		01/13/2024 15:35	Finished	CCB R231030A
36	N062272-016A,SAMF	13	1000	Unknown		01/13/2024 15:44	Finished	SAMP,2>10 mL
37	N062272-016AMS,M	14	1000	Unknown		01/13/2024 15:54	Finished	MS (1ppb), IWST-231228B,2>
38	N062272-018A,SAMF	15	1000	Unknown		01/13/2024 16:03	Finished	SAMP,2>10 mL
39	N062272-018AMS,M	16	1000	Unknown		01/13/2024 16:13	Finished	MS (1ppb), IWST-231228B,2>
40	N062272-019A,SAMF	17	1000	Unknown		01/13/2024 16:22	Finished	SAMP,2>10 mL
41	N062272-019AMS,M	18	1000	Unknown		01/13/2024 16:32	Finished	MS (1ppb), IWST-231228B,2>
42	N062272-004A,SAMF	19	1000	Unknown		01/13/2024 16:41	Finished	SAMP,10 mL
43	N062272-004AMS,M	20	1000	Unknown		01/13/2024 16:51	Finished	MS (5ppb), IWST-231228B,10r
44	N062272-005A,SAMF	21	1000	Unknown		01/13/2024 17:00	Finished	SAMP,10 mL
45	N062272-005AMS,M	22	1000	Unknown		01/13/2024 17:10	Finished	MS (5ppb), IWST-231228B,10r
46	CCV-4,CCV1,1,	23	1000	Unknown		01/13/2024 17:19	Finished	CCV @10ppb, IWST-231228A
47	CCB-4,CCB,1,	24	1000	Unknown		01/13/2024 17:28	Finished	CCB R231030A
48	N062192-009A,SAMF	25	1000	Unknown		01/13/2024 17:38	Finished	SAMP,10 mL
49	N062309-001A,SAMF	26	1000	Unknown		01/13/2024 17:47	Finished	SAMP,10 mL
50	MB-2,MBLK,1,	27	1000	Unknown		01/13/2024 17:57	Finished	MB R231227C
51	LCS-2,LCS,1,	28	1000	Unknown		01/13/2024 18:06	Finished	LCS @5ppb, IWST-231228B
52	N062350-018A,SAMF	29	1000	Unknown		01/13/2024 18:16	Finished	SAMP,10 mL
53	N062350-018AMS,M	30	1000	Unknown		01/13/2024 18:25	Finished	MS (1ppb), IWST-231228B,10r
54	N062350-018AMSD,N	31	1000	Unknown		01/13/2024 18:35	Finished	MSD (1ppb), IWST-231228B,1
55	N062350-001A,SAMF	32	1000	Unknown		01/13/2024 18:44	Finished	SAMP,10 mL
56	N062350-001ADUP,D	33	1000	Unknown		01/13/2024 18:54	Finished	DUP,10 mL
57	N062350-001AMS,M	34	1000	Unknown		01/13/2024 19:03	Finished	MS (1ppb), IWST-231228B,10r
58	CCV-5,CCV,1,	35	1000	Unknown		01/13/2024 19:13	Finished	CCV @5ppb, IWST-231228A
59	CCB-5,CCB,1,	36	1000	Unknown		01/13/2024 19:22	Interrupted	CCB R231227C
60	N062350-002A,SAMF	37	1000	Unknown		01/13/2024 21:45	Interrupted	SAMP,10 mL

61	N062350-003A,SAMF	38	1000	Unknown		01/13/2024 21:45	Finished	SAMP_0.5>10 mL
62	N062350-004A,SAMF	39	1000	Unknown		01/13/2024 21:57	Finished	SAMP_2>10 mL
63	N062350-005A,SAMF	40	1000	Unknown		01/13/2024 22:06	Finished	SAMP_10 mL
64	N062350-006A,SAMF	41	1000	Unknown		01/13/2024 22:16	Finished	SAMP_1>10 mL
65	N062350-007A,SAMF	42	1000	Unknown		01/13/2024 22:25	Finished	SAMP_10 mL
66	N062350-008A,SAMF	43	1000	Unknown		01/13/2024 22:35	Finished	SAMP_2>10 mL
67	N062350-009A,SAMF	44	1000	Unknown		01/13/2024 22:44	Finished	SAMP_10 mL
68	N062350-010A,SAMF	45	1000	Unknown		01/13/2024 22:53	Finished	SAMP_10 mL
69	N062350-011A,SAMF	46	1000	Unknown		01/13/2024 23:03	Finished	SAMP_10 mL
70	CCV-6,CCV1,1,	47	1000	Unknown		01/13/2024 23:12	Finished	CCV @10ppb, IWST-231228A
71	CCB-6,CCB,1,	48	1000	Unknown		01/13/2024 23:22	Finished	CCB R231227C
72	BLANK	49	1000	Unknown		01/13/2024 23:31	Finished	BLANK
73	SHUTDOWN	50	1000	Unknown		01/13/2024 23:41	Finished	
74	Eluent: R240108A	51	1000	Unknown		n.a.	Finished	
75	PCR: R240108B	CurrentVial	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 1/9/24
 Time Prepared: 1007H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14375
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A
 NH4OH + NH4SO4 buffer: N22127C

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062245-7A	9.24	-	-250 ul	-250 ul		
2)	8A	9.45	-				
3)	9A	9.29	-				
4)	10A	9.29	-				
5)	11A	9.46	-				
6)	12A	9.31	-				
7)	13A	9.63	-				
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 1/10/24
 Time Prepared: 1620H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14375
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A
 NH4OH + NH4SO4 buffer: N22127C

Low NADA
N22127C

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062272-1A	9.24	-	-250ul	-250ul		
2)	2A	9.26	-				
3)	3A	9.20	-				
4)	4A	9.41	-				
5)	5A	9.36	-				
6)	6A	9.30	-				
7)	7A	9.29	-				
8)	8A	9.40	-				
9)	9A	9.11	9.44			+4	
10)	10A	9.10	9.42			+4	
11)	11A	9.46	-				
12)	12A	9.74	-				
13)	13A	9.29	-				
14)	14A	9.44	-				
15)	15A	9.41	-				
	16A	9.13	9.47			+4	

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

"Serving Clients with Passion and Professionalism"

CALIFORNIA | P:562.219.7435 F:562.219.7436
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 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert 10022
 ORELAP Cert 4046 (EPA TO-15 & TO-17)

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56 of 100

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 1/10/24
 Time Prepared: 11:20A
 Prepared By: VA

Reagent ID:
 Sulfuric Acid: 14925
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: M240108A
 NH4OH + NH4SO4 buffer: M231229C

Con NaOH
M231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	M22272-17A	8.70	9.59	-250mL	-250mL	+8	
2)	18A	8.75	9.61			+8	
3)	19A	8.64	9.55			+8	
4)	20A	9.76	-				
5)	21A	9.71	-				
6)	M22274-1A	9.72	-				
7)	2A	9.35	-				
8)	3A	9.36	-				
9)	M22276-1A	9.46	-				
10)	M22277-1A	9.29	-				
11)	2A	9.40	-				
12)	3A	9.71	-				
13)	4A	9.75	-				
14)	M22278-2A	9.45	-				
15)	3A	9.41	-				
	4A	9.42	-				

Sample Preparation

Date Prepared: 1/10/24
 Time Prepared: 11:20A
 Prepared By: VA

Reagent ID:
 Sulfuric Acid: 14925
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: M240108A
 NH4OH + NH4SO4 buffer: M231229C

Con NaOH
M231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	M22278-5A	9.76	-	-250mL	-250mL		
2)	6A	9.66	-				
3)	7A	9.44	-				
4)	8A	9.05	9.41			+4	
5)	9A	8.96	9.79			+4	
6)	10A	8.71	9.61			+6	
7)	11A	9.71	-			0	
8)	12A	8.91	9.74			+4	
9)	13A	9.69	-				
10)	M22279-1A	9.71	-				
11)	2A	9.70	-				
12)	3A	9.72	-				
13)	4A	9.41	-				
14)	5A	9.48	-				
15)	6A	9.72	-				
	8A	9.74	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

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 31110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert N/A
 ORELAP Cert 4046 (EPA TO-15 & TO-3)

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57 81 100

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ICV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5618102							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5618103							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618105							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.998 0.20 5.000 0 100 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618106							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.184 0.20 0.2000 0 91.8 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 10.013 0.20 10.00 0 100 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618126							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.101	0.20	5.000	0	102	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.912	0.20	10.00	0	99.1	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618148							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.081	0.20	5.000	0	102	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ZZZZZ	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618158							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.061	0.20	10.00	0	101	95	105				
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCV	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618160							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.978	0.20	5.000	0	99.6	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ICV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620670	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.932	0.20	5.000	0	98.6	90	110
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620671	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	0.207	0.20	0.2000	0	103	80	120
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620673	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.888	0.20	5.000	0	97.8	95	105
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620677	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	0.193	0.20	0.2000	0	96.5	80	120
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620685	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.084	0.20	10.00	0	101	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620693	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.023	0.20	5.000	0	100	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620703	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.179	0.20	10.00	0	102	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620709	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.073	0.20	5.000	0	101	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620715	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.380	0.20	10.00	0	104	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ICV	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620830							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.932	0.20	5.000	0	98.6	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620831							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.207	0.20	0.2000	0	103	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCV	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.054	0.20	5.000	0	101	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.191	0.20	0.2000	0	95.5	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620846							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.990	0.20	10.00	0	99.9	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCV	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620858							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.128	0.20	5.000	0	103	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ZZZZZ	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620870							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.282	0.20	10.00	0	103	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCV	Batch ID: R180348	TestNo: EPA 218.6	Analysis Date: 1/13/2024	SeqNo: 5620874							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.096	0.20	5.000	0	102	95	105				
---------------------	-------	------	-------	---	-----	----	-----	--	--	--	--

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: ICB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5618104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321						
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6		Analysis Date: 1/11/2024	SeqNo: 5618137						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618159	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180321
Client ID: CCB	Batch ID: R180321	TestNo: EPA 218.6	Analysis Date: 1/11/2024	SeqNo: 5618161	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ICB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5620672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620710							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: ICB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5620832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620847						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620871						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180348						
Client ID: CCB	Batch ID: R180348	TestNo: EPA 218.6		Analysis Date: 1/13/2024	SeqNo: 5620875						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

MB-R180321	N.A.	N.A.
LCS-R180321	4.006	PASS
N062314-003B	3.981	PASS
N062314-003BREP	4.006	PASS
N062314-003BMS	4.006	PASS
N062238-001A	N.A.	N.A.
N062238-001AMS	3.815	PASS
N062238-002A	3.823	PASS
N062238-002AMS	3.815	PASS
N062238-003A	3.823	PASS
N062238-003AMS	3.806	PASS
N062241-008A	N.A.	N.A.
N062241-008AMS	3.981	PASS
N062279-021A	3.956	PASS
N062279-022A	3.981	PASS
N062279-023A	3.990	PASS
N062272-006A	3.998	PASS
N062272-006AMS	4.006	PASS
N062272-006AMSD	3.998	PASS

Reviewed by:

M/Rocha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062272-006ADUP	3.998	PASS
N062272-009A	3.998	PASS
N062272-009AMS	3.998	PASS
N062272-010A	3.998	PASS
N062272-010AMS	3.998	PASS
N062272-011A	3.998	PASS
N062272-011AMS	3.998	PASS
N062272-001A	4.006	PASS
N062272-001AMS	3.990	PASS
N062272-002A	N.A.	N.A.
N062272-002AMS	3.998	PASS
N062272-009ADUP	3.998	PASS
N062272-009AMS ^D	3.998	PASS
N062272-004A	3.948	PASS
N062272-004AMS	3.940	PASS
N062272-005A	3.881	PASS
N062272-005AMS	3.881	PASS
N062272-007A	N.A.	N.A.
N062272-007AMS	3.998	PASS

Reviewed by:

d/Rocha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062272-008A	N.A.	N.A.
N062272-008AMS	3.990	PASS
N062272-012A	N.A.	N.A.
N062272-012AMS	3.998	PASS
N062272-001A	3.998	PASS
N062272-001AMS	3.998	PASS
N062272-003A	N.A.	N.A.
N062272-003AMS	3.990	PASS
N062272-006A	3.965	PASS
N062272-006AMS	3.973	PASS
N062272-011A	3.865	PASS
N062272-011AMS	3.865	PASS
N062272-011A	3.981	PASS
N062272-011AMS	3.981	PASS
MB-R180322	N.A.	N.A.
LCS-R180322	4.006	PASS
N062307-001A	3.990	PASS
N062307-001ADUP	3.990	PASS
N062307-001AMS	3.998	PASS

Reviewed by:

d/Rocha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.006	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.006	
CCV-5	4.006	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	
CCV-9	4.006	

Average 4.006
Actual RT Window 3.926 - 4.086
Applied RT Window 3.806 - 4.206

N062307-001AMSD	3.990	PASS
N062308-001A	3.998	PASS
N062308-002A	N.A.	N.A.
N062309-007A	3.990	PASS
N062309-007AMS	3.990	PASS
N062309-007AMSD	3.990	PASS
N062309-008A	3.998	PASS
N062309-008AMS	3.998	PASS
N062309-008AMSD	3.998	PASS
N062309-001A	4.006	PASS
N062309-002A	3.990	PASS
N062309-003A	4.006	PASS
N062309-004A	3.990	PASS
N062309-005A	3.998	PASS
N062309-006A	3.981	PASS
N062309-009A	3.998	PASS
N062309-010A	3.990	PASS
N062272-004AMS	3.940	PASS

Reviewed by:

d/Rocha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

MB-R180345	N.A.	N.A.
LCS-R180345	4.006	PASS
N062272-014A	3.981	PASS
N062272-014ADUP	3.981	PASS
N062345-005B	N.A.	N.A.
N062345-005BREP	N.A.	N.A.
N062345-005BMS	4.006	PASS
N062272-014AMS	3.981	PASS
N062272-014AMSD	3.981	PASS
N062272-013A	3.815	PASS
N062272-013AMS	3.823	PASS
N062272-020A	3.973	PASS
N062272-020AMS	3.973	PASS
N062272-016A	N.A.	N.A.
N062272-017A	N.A.	N.A.
N062272-017AMS	3.823	PASS
N062311-001A	3.990	PASS
N062311-001AMS	3.990	PASS
N062272-019A	N.A.	N.A.
N062272-021A	N.A.	N.A.

Reviewed by:

d/Rocha 1/29/2024

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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

N062272-021AMS	3.998	PASS
N062274-001A	N.A.	N.A.
N062274-001AMS	3.831	PASS
N062274-002A	N.A.	N.A.
N062274-002AMS	3.815	PASS
N062274-003A	3.815	PASS
N062274-003AMS	3.831	PASS
N062272-015A	3.973	PASS
N062272-015AMS	3.973	PASS
N062272-016A	N.A.	N.A.
N062272-016AMS	3.973	PASS
N062310-002A	N.A.	N.A.
N062310-003A	4.006	PASS
N062272-018A	N.A.	N.A.
N062272-018AMS	3.973	PASS
N062272-019A	3.990	PASS
N062272-019AMS	3.981	PASS
N062272-018A	N.A.	N.A.
N062309-011A	3.998	PASS
N062309-012A	N.A.	N.A.

Reviewed by:

dMocha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

N062309-013A	N.A.	N.A.
N062310-001A	3.990	PASS
MB-R180346	N.A.	N.A.
LCS-R180346	4.006	PASS
N062310-016A	3.998	PASS
N062310-016AMS	4.006	PASS
N062310-016AMSD	3.998	PASS
N062310-019A	3.998	PASS
N062310-019AMS	3.998	PASS
N062310-019AMSD	3.998	PASS
N062310-005A	3.931	PASS
N062310-005ADUP	3.931	PASS
N062310-006A	N.A.	N.A.
N062310-007A	N.A.	N.A.
N062310-008A	3.973	PASS
N062310-009A	3.990	PASS
N062310-010A	3.965	PASS
N062310-011A	3.981	PASS
N062310-012A	3.998	PASS
N062310-013A	3.998	PASS

Reviewed by:

MRecha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	

Average 4.015
Actual RT Window 3.935 - 4.095
Applied RT Window 3.815 - 4.215

MB-R180348	N.A.	N.A.
LCS-R180348	4.006	PASS
N062371-001B	N.A.	N.A.
N062371-001BREP	N.A.	N.A.
N062371-001BMS	4.015	PASS
N062310-022A	3.998	PASS
N062310-015A	4.006	PASS
N062310-017A	4.006	PASS
N062310-018A	4.006	PASS
N062310-023A	3.998	PASS
N062310-022AMS	4.006	PASS
N062310-022AMSD	4.006	PASS
N062310-004A	4.006	PASS
N062310-014A	3.998	PASS
N062310-020A	3.998	PASS
N062310-021A	3.998	PASS
N062310-024A	N.A.	N.A.
N062272-015A	3.973	PASS
N062272-015AMS	3.973	PASS
N062310-022ADUP	4.006	PASS
N062272-016A	N.A.	N.A.
N062272-016AMS	3.965	PASS

Reviewed by:

dRecha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	

Average 4.015
Actual RT Window 3.935 - 4.095
Applied RT Window 3.815 - 4.215

N062272-018A	N.A.	N.A.
N062272-018AMS	3.973	PASS
N062272-019A	N.A.	N.A.
N062272-019AMS	3.981	PASS
N062272-004A	3.948	PASS
N062272-004AMS	3.948	PASS
N062272-005A	3.890	PASS
N062272-005AMS	3.890	PASS
N062192-009A	3.990	PASS
N062309-001A	4.006	PASS
MB-R180349	N.A.	N.A.
LCS-R180349	4.015	PASS
N062350-018A	3.998	PASS
N062350-018AMS	4.006	PASS
N062350-018AMSD	4.006	PASS
N062350-001A	3.940	PASS
N062350-001ADUP	3.956	PASS
N062350-001AMS	3.956	PASS
N062350-002A	N.A.	N.A.
N062350-003A	N.A.	N.A.
N062350-004A	4.015	PASS
N062350-005A	3.990	PASS

Reviewed by:

MRecha 1/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.015	
CCV-3	4.015	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.015	

Average 4.015
Actual RT Window 3.935 - 4.095
Applied RT Window 3.815 - 4.215

N062350-006A	4.015	PASS
N062350-007A	N.A.	N.A.
N062350-008A	4.006	PASS
N062350-009A	3.998	PASS
N062350-010A	4.015	PASS
N062350-011A	4.023	PASS

Reviewed by:

MRecha 1/29/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INITIAL CALIBRATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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NEVADA
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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

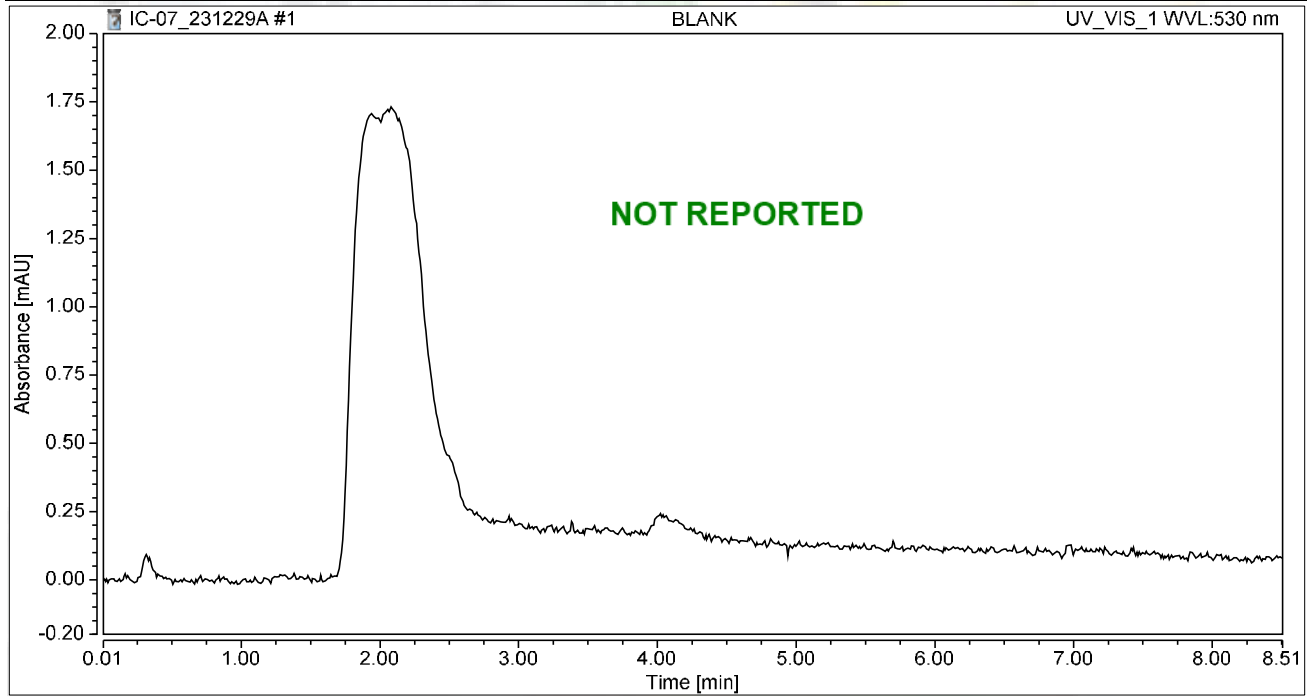
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

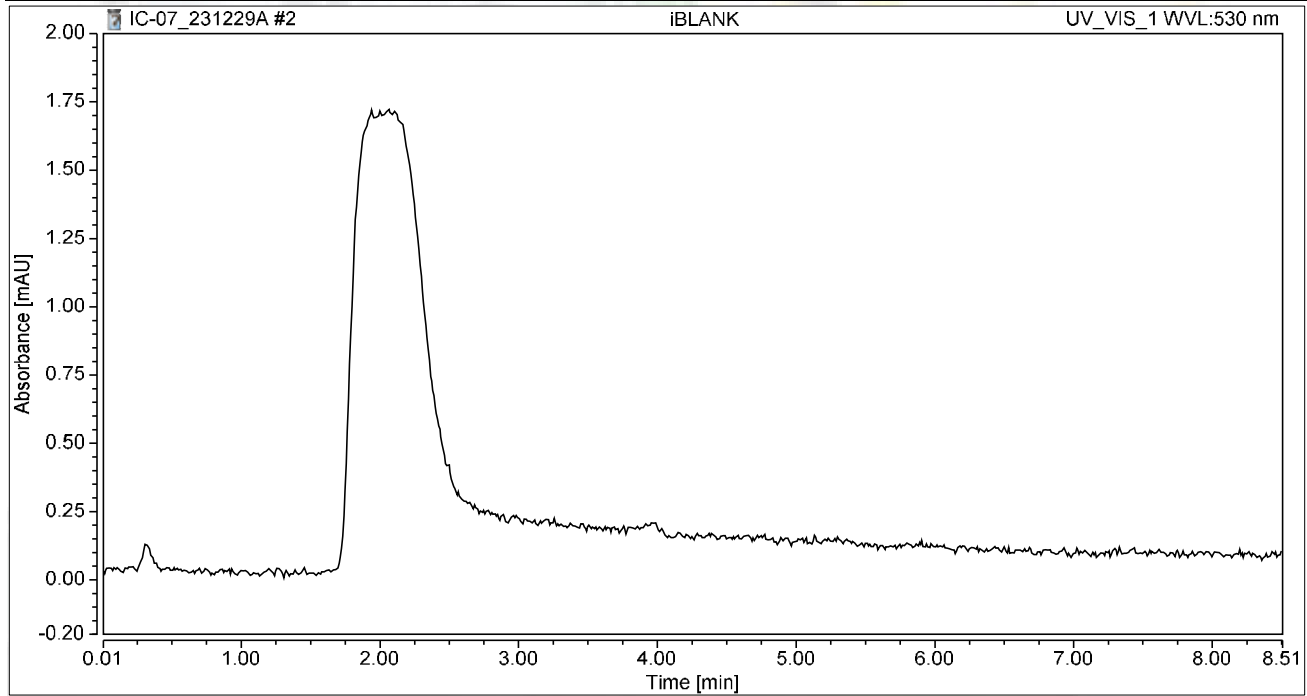
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Dumy

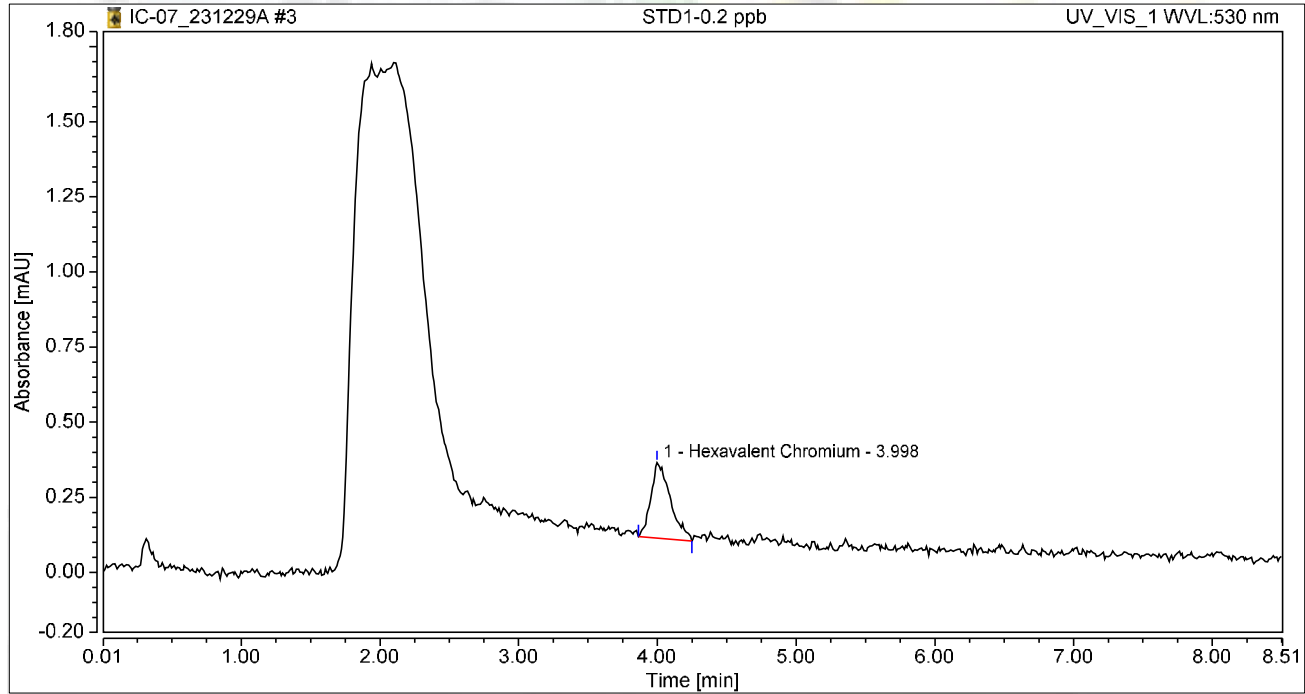
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

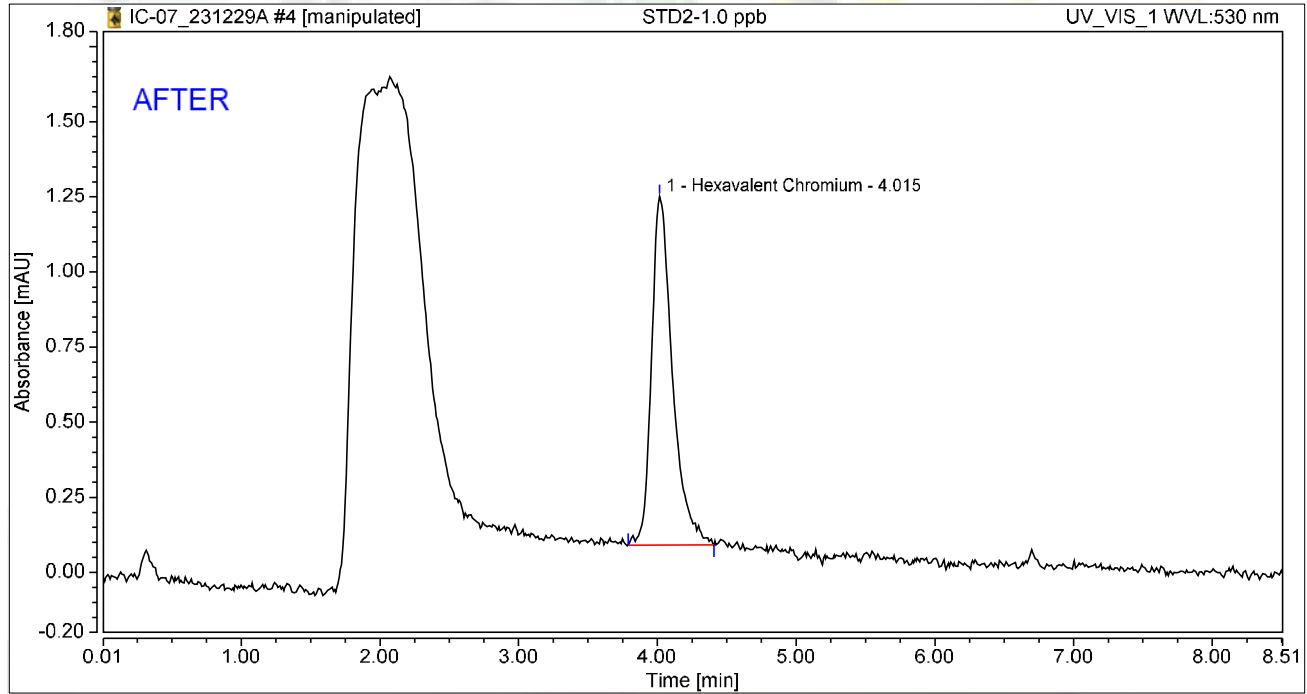
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

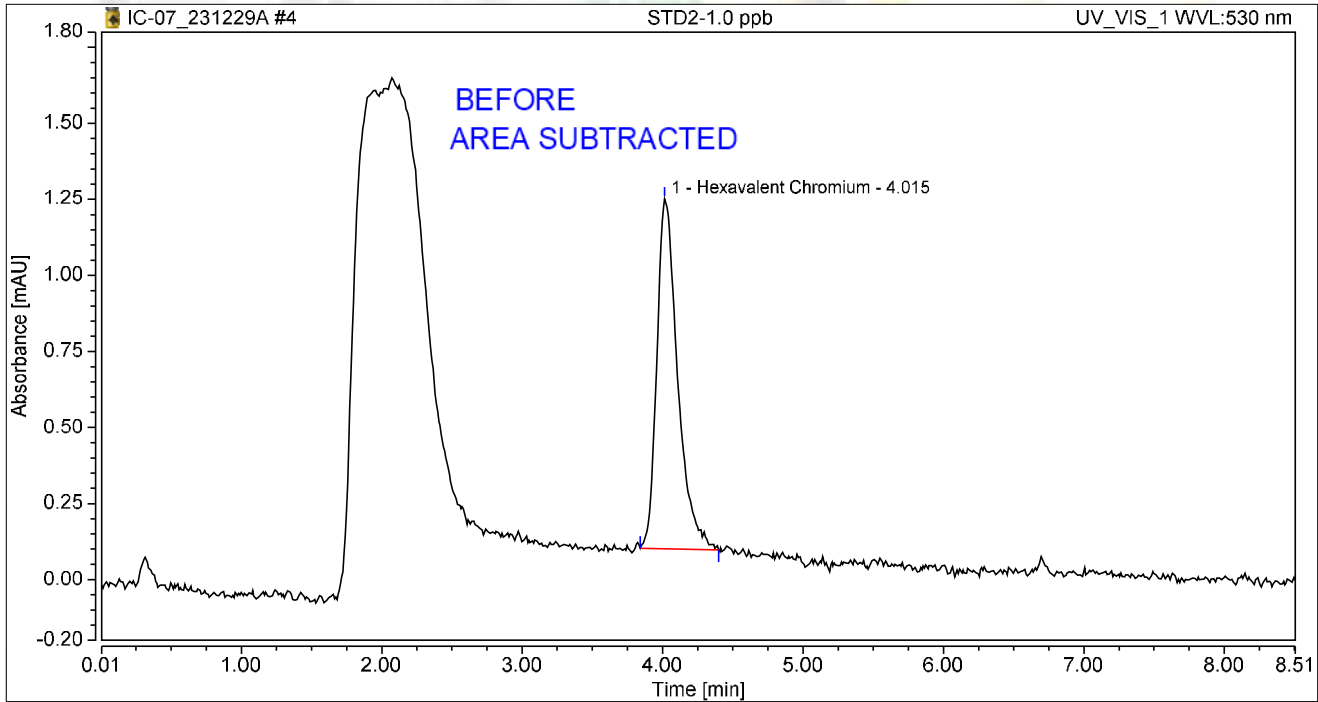
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

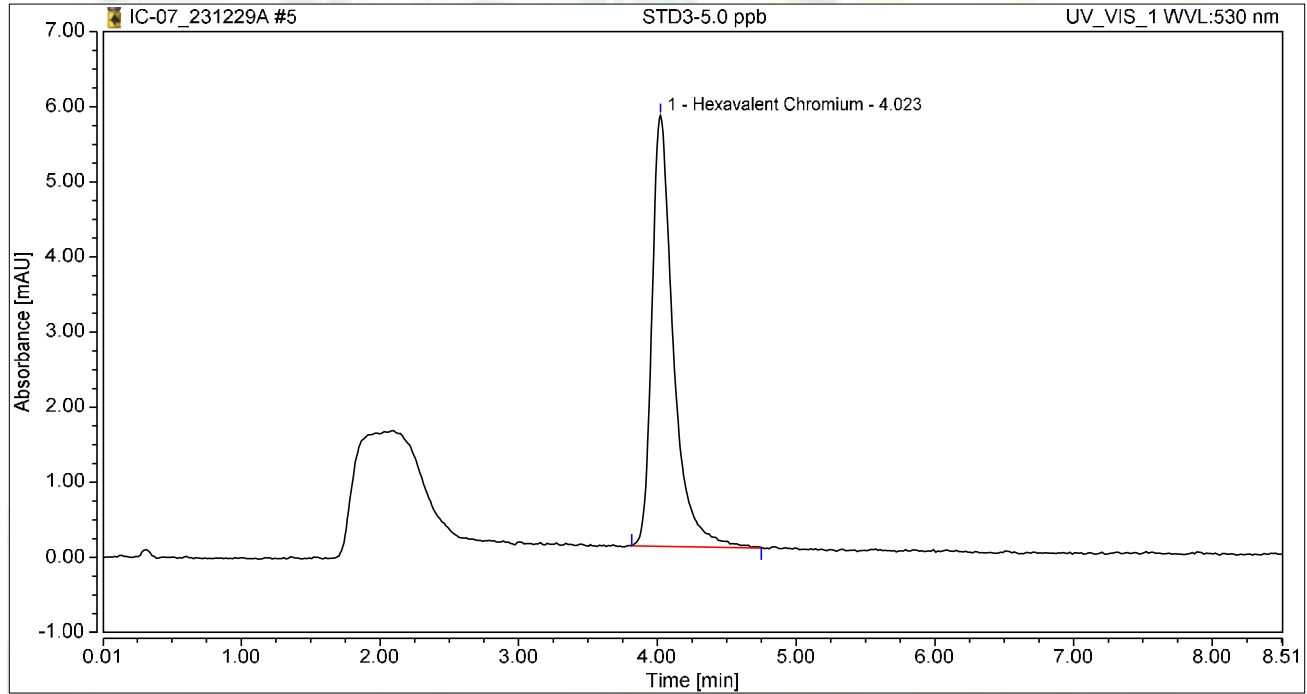
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

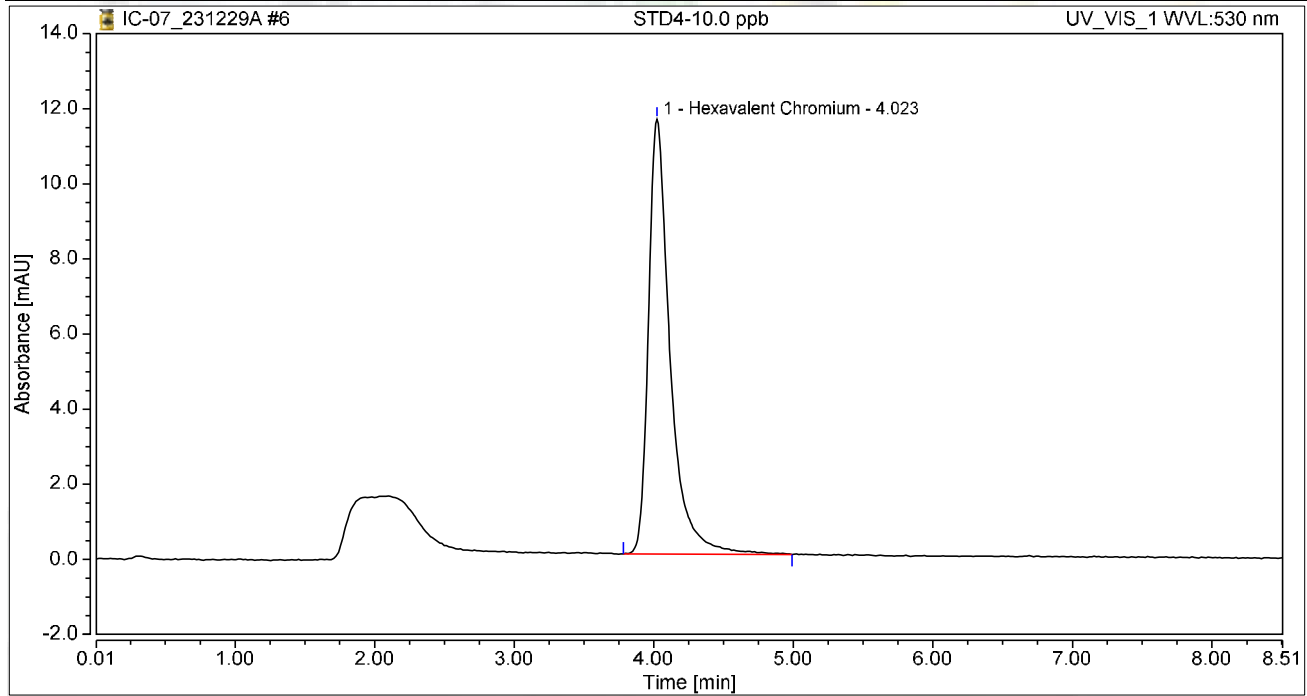
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

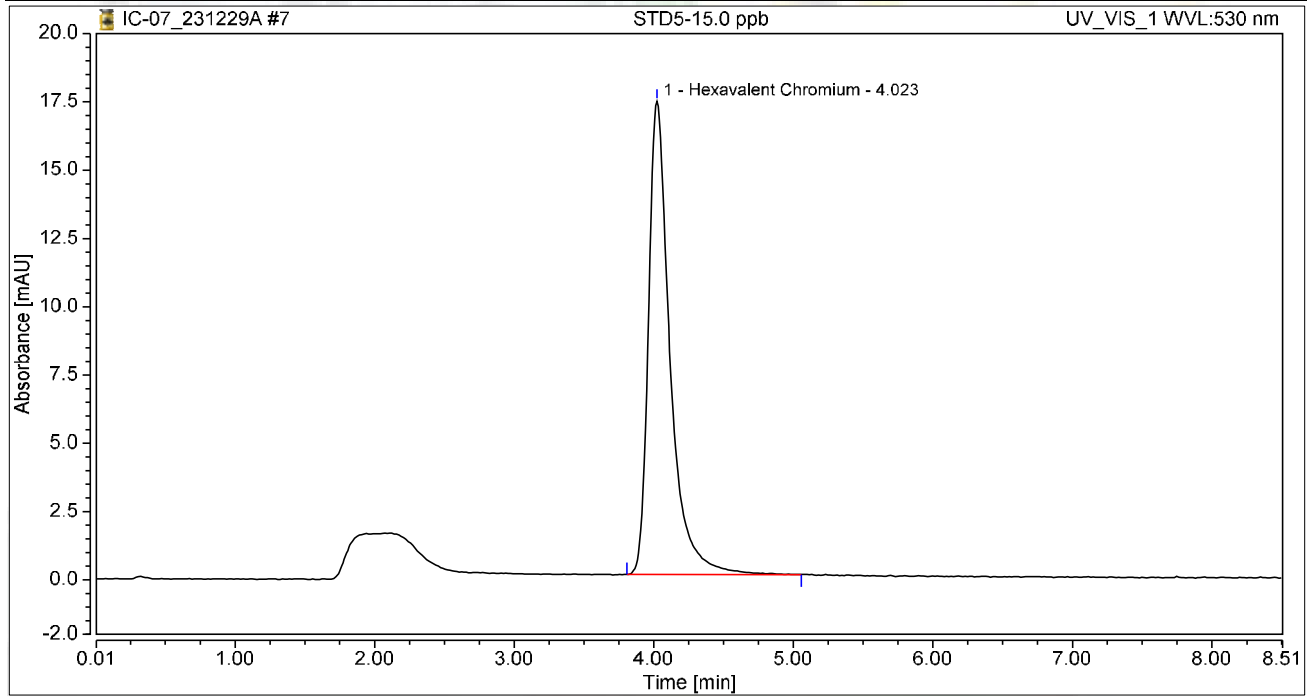
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

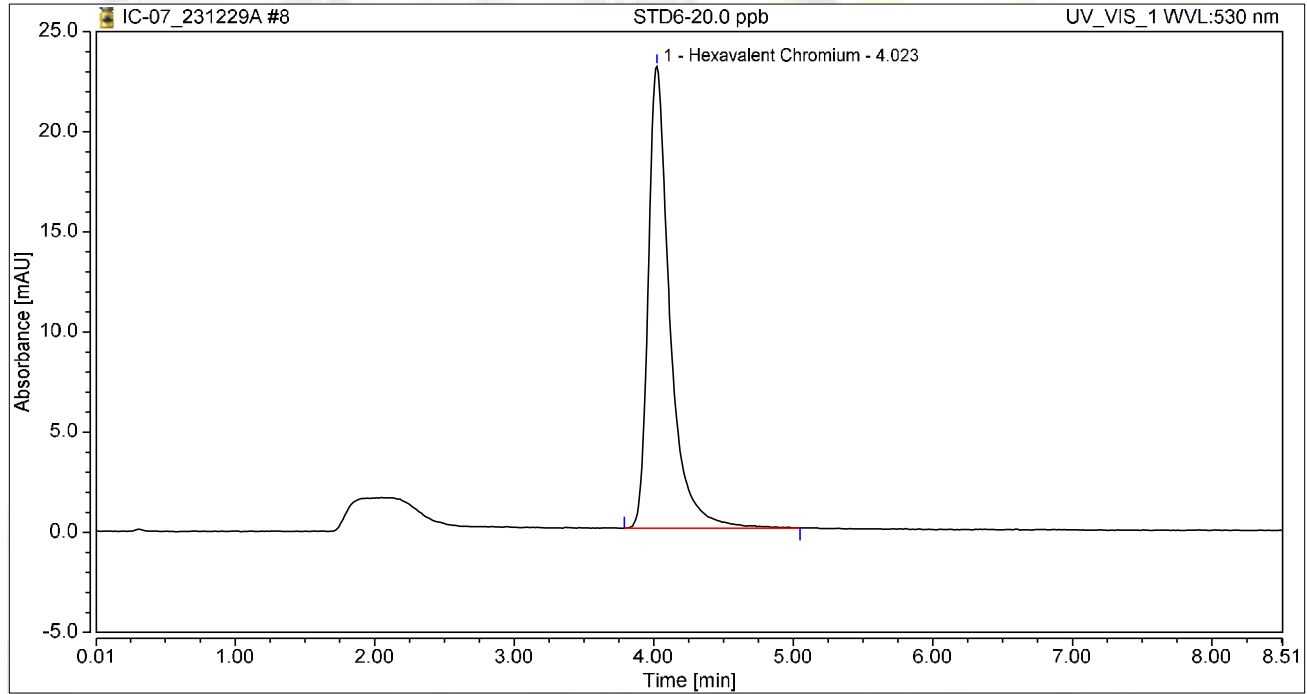
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

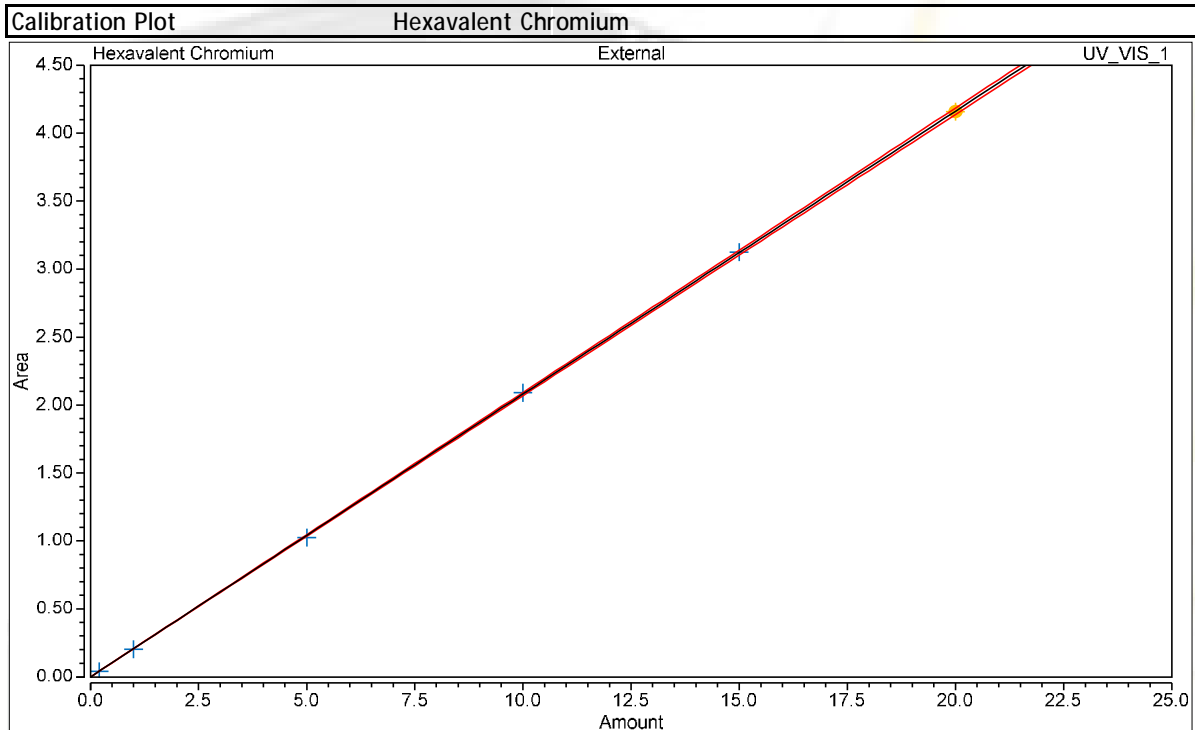
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



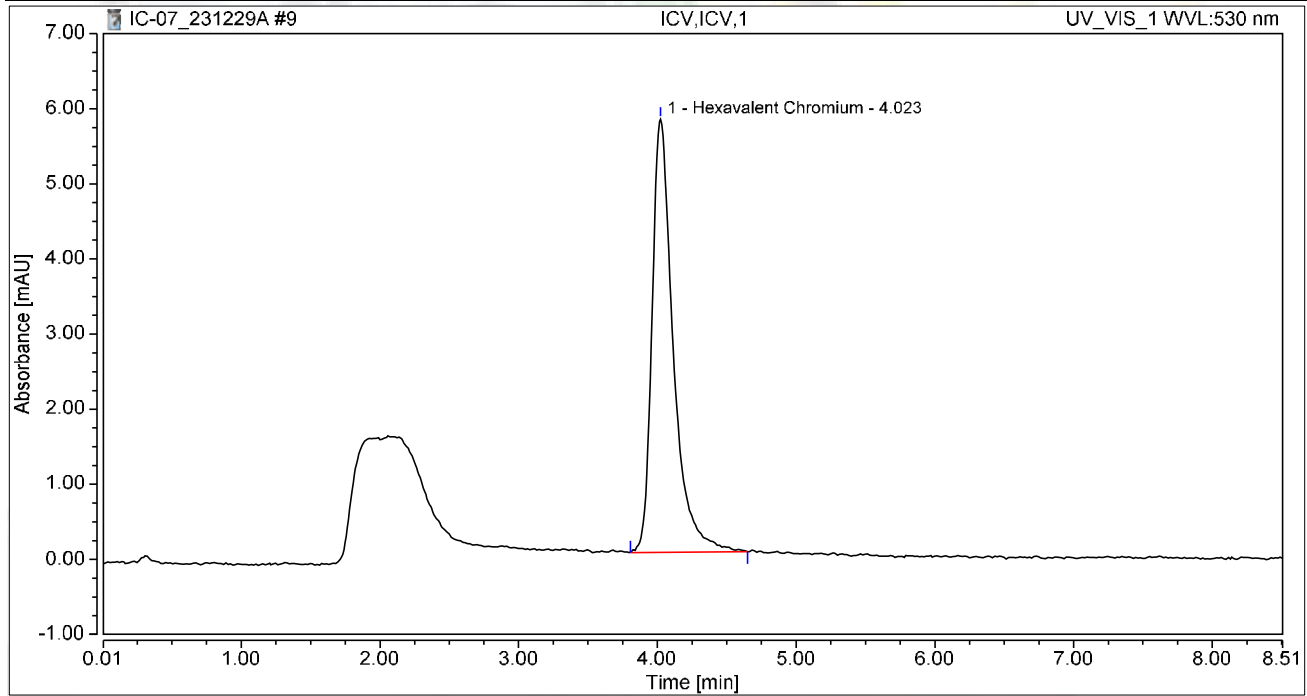
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

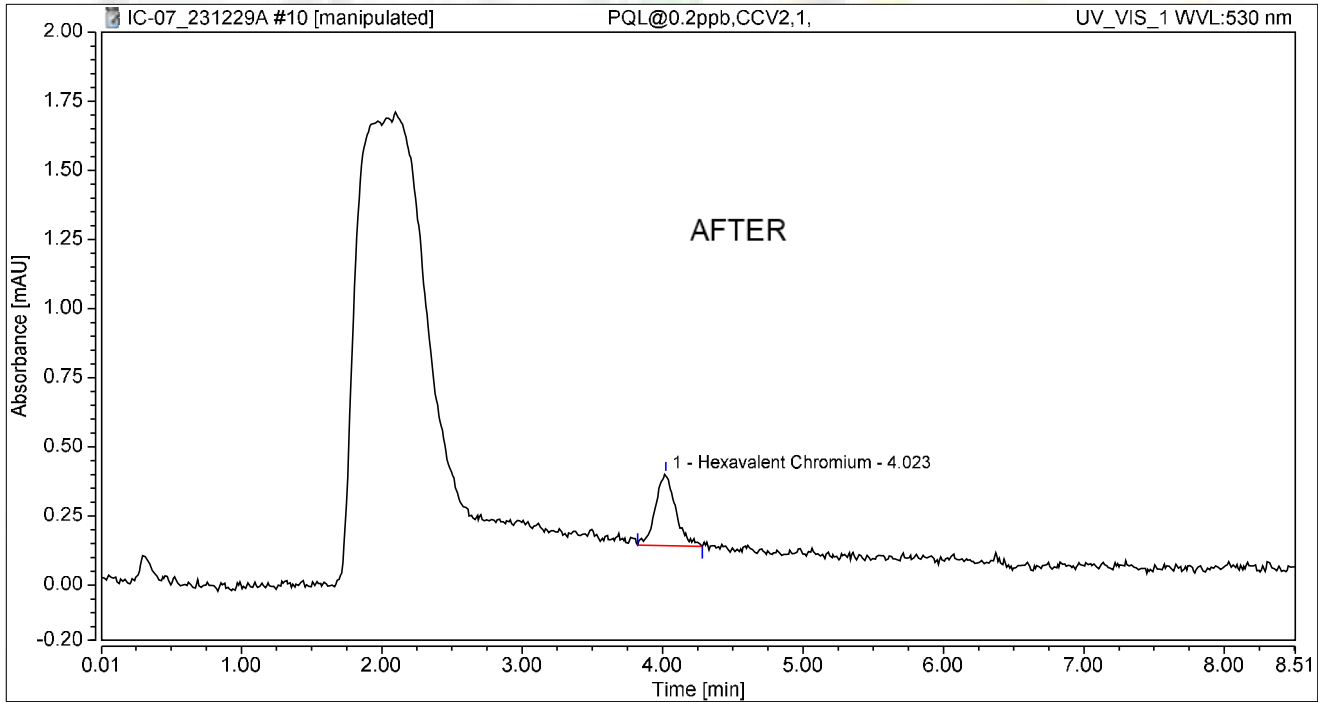
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

Reviewed by

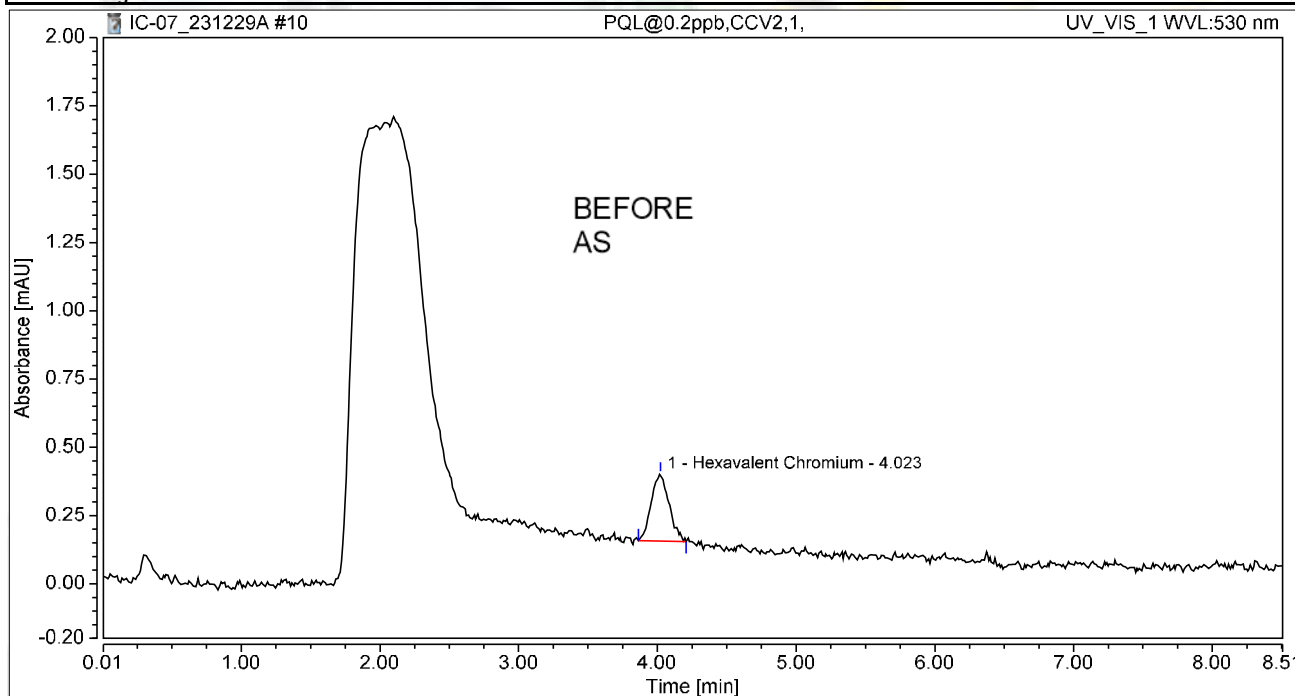
Nancy 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

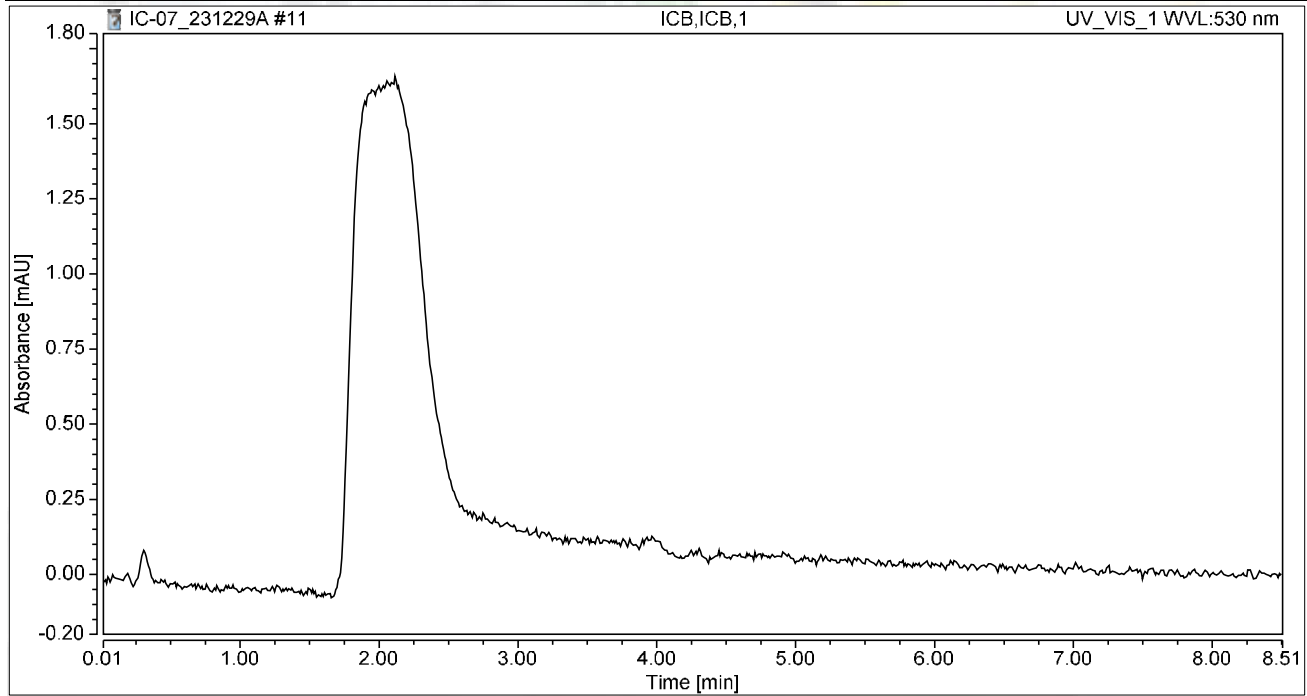
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/11/24 10:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/11/24 10:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/11/24 11:03 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/11/24 11:13 AM	Reported
13	MB-R180321	MBLK	1	Hexavalent Chromium	01/11/24 11:22 AM	Reported
14	LCS-R180321	LCS	1	Hexavalent Chromium	01/11/24 11:32 AM	Reported
15	N062314-003B	SAMP	1	Hexavalent Chromium	01/11/24 11:58 AM	Reported
16	N062314-003BREP	DUP	1	Hexavalent Chromium	01/11/24 12:11 PM	Reported
17	N062314-003BMS	MS	1	Hexavalent Chromium	01/11/24 12:21 PM	Reported
18	N062238-001A	SAMP	1	Hexavalent Chromium	01/11/24 12:50 PM	Reported
19	N062238-001AMS	MS	1	Hexavalent Chromium	01/11/24 1:03 PM	Reported
20	N062238-002A	SAMP	1	Hexavalent Chromium	01/11/24 1:13 PM	Reported
21	N062238-002AMS	MS	1	Hexavalent Chromium	01/11/24 1:22 PM	Reported
22	N062238-003A	SAMP	1	Hexavalent Chromium	01/11/24 1:31 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/11/24 1:41 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/11/24 1:50 PM	Reported
25	N062238-003AMS	MS	1	Hexavalent Chromium	01/11/24 2:00 PM	Reported
26	N062241-008A	SAMP	5	Hexavalent Chromium	01/11/24 2:09 PM	Reported
27	N062241-008AMS	MS	5	Hexavalent Chromium	01/11/24 2:21 PM	Reported
28	N062279-021A	SAMP	1	Hexavalent Chromium	01/11/24 2:33 PM	Reported
29	N062279-022A	SAMP	1	Hexavalent Chromium	01/11/24 2:42 PM	Reported
30	N062279-023A	SAMP	1	Hexavalent Chromium	01/11/24 2:52 PM	Reported
31	N062272-006A	SAMP	20	Hexavalent Chromium	01/11/24 3:01 PM	Not Reported
32	N062272-006AMS	MS	20	Hexavalent Chromium	01/11/24 3:10 PM	Not Reported
33	N062272-006AMSD	MSD	20	Hexavalent Chromium	01/11/24 3:20 PM	Not Reported
34	N062272-006ADUP	DUP	20	Hexavalent Chromium	01/11/24 3:29 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/11/24 3:39 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/11/24 3:48 PM	Reported
37	N062272-009A	SAMP	20	Hexavalent Chromium	01/11/24 3:58 PM	Reported
38	N062272-009AMS	MS	20	Hexavalent Chromium	01/11/24 4:07 PM	Reported
39	N062272-010A	SAMP	20	Hexavalent Chromium	01/11/24 4:17 PM	Reported
40	N062272-010AMS	MS	20	Hexavalent Chromium	01/11/24 4:26 PM	Reported
41	N062272-011A	SAMP	10	Hexavalent Chromium	01/11/24 4:36 PM	Not Reported
42	N062272-011AMS	MS	10	Hexavalent Chromium	01/11/24 4:45 PM	Not Reported

Reviewed by:

JRB 1/16/2024

Mrocha 1/29/2024
for RBA **193**

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-001A	SAMP	1	Hexavalent Chromium	01/11/24 4:54 PM	Reported
44	N062272-001AMS	MS	1	Hexavalent Chromium	01/11/24 5:04 PM	Reported
45	N062272-002A	SAMP	1	Hexavalent Chromium	01/11/24 5:13 PM	Reported
46	N062272-002AMS	MS	1	Hexavalent Chromium	01/11/24 5:23 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/11/24 5:32 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/11/24 5:42 PM	Reported
49	N062272-009ADUP	DUP	20	Hexavalent Chromium	01/11/24 5:51 PM	Reported
50	N062272-009AMSD	MSD	20	Hexavalent Chromium	01/11/24 6:01 PM	Not Reported
51	N062272-004A	SAMP	1	Hexavalent Chromium	01/11/24 6:10 PM	Not Reported
52	N062272-004AMS	MS	1	Hexavalent Chromium	01/11/24 6:20 PM	Not Reported
53	N062272-005A	SAMP	1	Hexavalent Chromium	01/11/24 6:29 PM	Not Reported
54	N062272-005AMS	MS	1	Hexavalent Chromium	01/11/24 6:39 PM	Not Reported
55	N062272-007A	SAMP	1	Hexavalent Chromium	01/11/24 6:48 PM	Reported
56	N062272-007AMS	MS	1	Hexavalent Chromium	01/11/24 7:10 PM	Reported
57	N062272-008A	SAMP	1	Hexavalent Chromium	01/11/24 7:21 PM	Reported
58	N062272-008AMS	MS	1	Hexavalent Chromium	01/11/24 7:31 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/11/24 7:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/11/24 7:50 PM	Reported
61	N062272-012A	SAMP	1	Hexavalent Chromium	01/11/24 7:59 PM	Reported
62	N062272-012AMS	MS	1	Hexavalent Chromium	01/11/24 8:09 PM	Reported
63	N062272-001A	SAMP	5	Hexavalent Chromium	01/11/24 8:18 PM	Not Reported
64	N062272-001AMS	MS	5	Hexavalent Chromium	01/11/24 8:28 PM	Not Reported
65	N062272-003A	SAMP	1	Hexavalent Chromium	01/11/24 8:37 PM	Reported
66	N062272-003AMS	MS	1	Hexavalent Chromium	01/11/24 8:47 PM	Reported
67	N062272-006A	SAMP	5	Hexavalent Chromium	01/11/24 8:56 PM	Reported
68	N062272-006AMS	MS	5	Hexavalent Chromium	01/11/24 9:05 PM	Reported
69	N062272-011A	SAMP	1	Hexavalent Chromium	01/11/24 9:15 PM	Reported
70	N062272-011AMS	MS	1	Hexavalent Chromium	01/11/24 9:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/11/24 9:34 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/11/24 9:43 PM	Reported
73	N062272-011A	SAMP	5	Hexavalent Chromium	01/11/24 9:53 PM	Not Reported
74	N062272-011AMS	MS	5	Hexavalent Chromium	01/11/24 10:02 PM	Not Reported
75	MB-R180322	MBLK	1	Hexavalent Chromium	01/11/24 10:12 PM	Reported
76	LCS-R180322	LCS	1	Hexavalent Chromium	01/11/24 10:21 PM	Reported
77	N062307-001A	SAMP	1	Hexavalent Chromium	01/11/24 10:31 PM	Reported
78	N062307-001ADUP	DUP	1	Hexavalent Chromium	01/11/24 10:40 PM	Reported
79	N062307-001AMS	MS	1	Hexavalent Chromium	01/11/24 10:49 PM	Reported
80	N062307-001AMSD	MSD	1	Hexavalent Chromium	01/11/24 10:59 PM	Reported
81	N062308-001A	SAMP	1	Hexavalent Chromium	01/11/24 11:08 PM	Reported
82	N062308-002A	SAMP	1	Hexavalent Chromium	01/11/24 11:18 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/11/24 11:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/11/24 11:37 PM	Reported

INJECTION LOG: 240111A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062309-007A	SAMP	1	Hexavalent Chromium	01/11/24 11:46 PM	Reported
86	N062309-007AMS	MS	1	Hexavalent Chromium	01/11/24 11:56 PM	Reported
87	N062309-007AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:05 AM	Reported
88	N062309-008A	SAMP	1	Hexavalent Chromium	01/12/24 12:15 AM	Reported
89	N062309-008AMS	MS	1	Hexavalent Chromium	01/12/24 12:24 AM	Reported
90	N062309-008AMSD	MSD	1	Hexavalent Chromium	01/12/24 12:33 AM	Reported
91	N062309-001A	SAMP	50	Hexavalent Chromium	01/12/24 12:43 AM	Not Reported
92	N062309-002A	SAMP	1	Hexavalent Chromium	01/12/24 12:52 AM	Reported
93	N062309-003A	SAMP	5	Hexavalent Chromium	01/12/24 1:02 AM	Reported
94	N062309-004A	SAMP	1	Hexavalent Chromium	01/12/24 1:11 AM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	01/12/24 1:21 AM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	01/12/24 1:30 AM	Reported
97	N062309-005A	SAMP	5	Hexavalent Chromium	01/12/24 1:40 AM	Reported
98	N062309-006A	SAMP	1	Hexavalent Chromium	01/12/24 1:49 AM	Reported
99	N062309-009A	SAMP	1	Hexavalent Chromium	01/12/24 1:59 AM	Reported
100	N062309-010A	SAMP	1	Hexavalent Chromium	01/12/24 2:08 AM	Reported
101	N062272-004AMS	MS	1	Hexavalent Chromium	01/12/24 2:18 AM	Not Reported
102	CCV-9	CCV	1	Hexavalent Chromium	01/12/24 2:27 AM	Reported
103	CCB-9	CCB	1	Hexavalent Chromium	01/12/24 2:36 AM	Reported
104	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 2:46 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240111A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Jan/24 03:16:42
No. of Injections:	107	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/11/2024 10:43	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/11/2024 10:54	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/11/2024 11:03	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/11/2024 11:13	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/11/2024 11:22	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/11/2024 11:32	Finished	LCS @5ppb, IWST-231228B
15	N062314-003B,SAMP	1	1000	Unknown		01/11/2024 11:58	Finished	SAMP,10 mL
16	N062314-003BREP,D	2	1000	Unknown		01/11/2024 12:11	Finished	REP,10 mL
17	N062314-003BMS,M	3	1000	Unknown		01/11/2024 12:21	Finished	MS (1ppb), IWST-231228B,10r
18	N062238-001A,SAMP	1	1000	Unknown		01/11/2024 12:50	Finished	SAMP,10 mL
19	N062238-001AMS,M	2	1000	Unknown		01/11/2024 13:03	Finished	MS (1ppb), IWST-231228B,10r
20	N062238-002A,SAMP	3	1000	Unknown		01/11/2024 13:13	Finished	SAMP,10 mL
21	N062238-002AMS,M	4	1000	Unknown		01/11/2024 13:22	Finished	MS (1ppb), IWST-231228B,10r
22	N062238-003A,SAMP	5	1000	Unknown		01/11/2024 13:31	Finished	SAMP,10 mL
23	CCV-2,CCV1,1,	6	1000	Unknown		01/11/2024 13:41	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	7	1000	Unknown		01/11/2024 13:50	Finished	CCB R231030A
25	N062238-003AMS,M	8	1000	Unknown		01/11/2024 14:00	Finished	MS (1ppb), IWST-231228B,10r
26	N062241-008A,SAMP	9	1000	Unknown		01/11/2024 14:09	Finished	SAMP,2>10 mL
27	N062241-008AMS,M	1	1000	Unknown		01/11/2024 14:21	Finished	MS (1ppb), IWST-231228B,2>1
28	N062279-021A,SAMP	2	1000	Unknown		01/11/2024 14:33	Finished	SAMP,10 mL
29	N062279-022A,SAMP	3	1000	Unknown		01/11/2024 14:42	Finished	SAMP,10 mL
30	N062279-023A,SAMP	4	1000	Unknown		01/11/2024 14:52	Finished	SAMP,10 mL
31	N062272-006A,SAMP	5	1000	Unknown		01/11/2024 15:01	Finished	SAMP,0.5>10 mL
32	N062272-006AMS,M	6	1000	Unknown		01/11/2024 15:10	Finished	MS (5ppb), IWST-231228B,0.5
33	N062272-006AMSD,M	7	1000	Unknown		01/11/2024 15:20	Finished	MSD (5ppb), IWST-231228B,0
34	N062272-006ADUP,D	8	1000	Unknown		01/11/2024 15:29	Finished	DUP,0.5>10 mL
35	CCV-3,CCV,1,	9	1000	Unknown		01/11/2024 15:39	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	10	1000	Unknown		01/11/2024 15:48	Finished	CCB R231030A
37	N062272-009A,SAMP	11	1000	Unknown		01/11/2024 15:58	Finished	SAMP,0.5>10 mL
38	N062272-009AMS,M	12	1000	Unknown		01/11/2024 16:07	Finished	MS (5ppb), IWST-231228B,0.5
39	N062272-010A,SAMP	13	1000	Unknown		01/11/2024 16:17	Finished	SAMP,0.5>10 mL
40	N062272-010AMS,M	14	1000	Unknown		01/11/2024 16:26	Finished	MS (5ppb), IWST-231228B,0.5
41	N062272-011A,SAMP	15	1000	Unknown		01/11/2024 16:36	Finished	SAMP,1>10 mL
42	N062272-011AMS,M	16	1000	Unknown		01/11/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062272-001A,SAMP	17	1000	Unknown		01/11/2024 16:54	Finished	SAMP,10 mL
44	N062272-001AMS,M	18	1000	Unknown		01/11/2024 17:04	Finished	MS (1ppb), IWST-231228B,10r
45	N062272-002A,SAMP	19	1000	Unknown		01/11/2024 17:13	Finished	SAMP,10 mL
46	N062272-002AMS,M	20	1000	Unknown		01/11/2024 17:23	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	21	1000	Unknown		01/11/2024 17:32	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	22	1000	Unknown		01/11/2024 17:42	Finished	CCB R231030A
49	N062272-009ADUP,D	23	1000	Unknown		01/11/2024 17:51	Finished	DUP,0.5>10 mL
50	N062272-009AMS,M	24	1000	Unknown		01/11/2024 18:01	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-004A,SAMP	25	1000	Unknown		01/11/2024 18:10	Finished	SAMP,10 mL
52	N062272-004AMS,M	26	1000	Unknown		01/11/2024 18:20	Finished	MS (1ppb), IWST-231228B,10r
53	N062272-005A,SAMP	27	1000	Unknown		01/11/2024 18:29	Finished	SAMP,10 mL
54	N062272-005AMS,M	28	1000	Unknown		01/11/2024 18:39	Finished	MS (1ppb), IWST-231228B,10r
55	N062272-007A,SAMP	29	1000	Unknown		01/11/2024 18:48	Finished	SAMP,10 mL
56	N062272-007AMS,M	1	1000	Unknown		01/11/2024 19:10	Finished	MS (1ppb), IWST-231228B,10r
57	N062272-008A,SAMP	2	1000	Unknown		01/11/2024 19:21	Finished	SAMP,10 mL
58	N062272-008AMS,M	3	1000	Unknown		01/11/2024 19:31	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	4	1000	Unknown		01/11/2024 19:40	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	5	1000	Unknown		01/11/2024 19:50	Finished	CCB R231227C

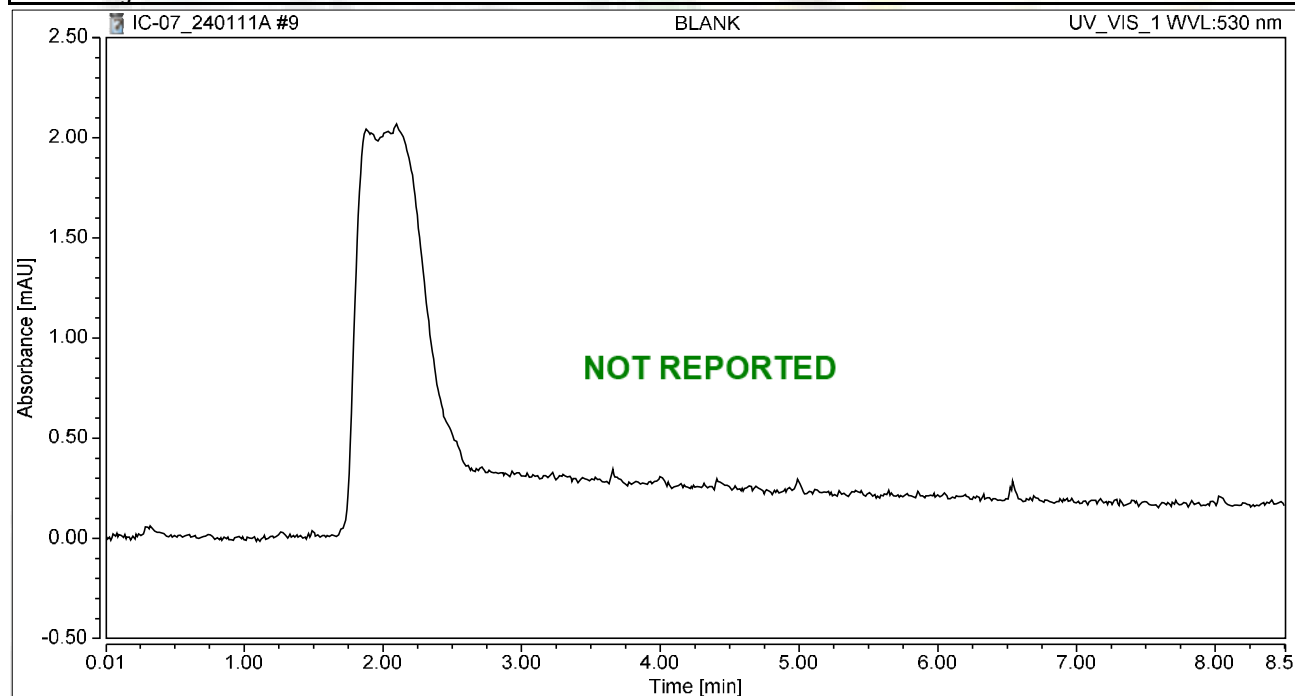
61	N062272-012A,SAMF	6	1000	Unknown	01/11/2024 19:59	Finished	SAMP,10 mL
62	N062272-012AMS,MS	7	1000	Unknown	01/11/2024 20:09	Finished	MS (1ppb), IWST-231228B,10r
63	N062272-001A,SAMF	8	1000	Unknown	01/11/2024 20:18	Finished	SAMP,2>10 mL
64	N062272-001AMS,MS	9	1000	Unknown	01/11/2024 20:28	Finished	MS (1ppb), IWST-231228B,2>1
65	N062272-003A,SAMF	10	1000	Unknown	01/11/2024 20:37	Finished	SAMP,10 mL
66	N062272-003AMS,MS	11	1000	Unknown	01/11/2024 20:47	Finished	MS (1ppb), IWST-231228B,10r
67	N062272-006A,SAMF	12	1000	Unknown	01/11/2024 20:56	Finished	SAMP,2>10 mL
68	N062272-006AMS,MS	13	1000	Unknown	01/11/2024 21:05	Finished	MS (5ppb), IWST-231228B,2>1
69	N062272-011A,SAMF	14	1000	Unknown	01/11/2024 21:15	Finished	SAMP,10 mL
70	N062272-011AMS,MS	15	1000	Unknown	01/11/2024 21:24	Finished	MS (5ppb), IWST-231228B,10r
71	CCV-6.CCV1,1,	16	1000	Unknown	01/11/2024 21:34	Finished	CCV @10ppb, IWST-231228A
72	CCB-6.CCB,1,	17	1000	Unknown	01/11/2024 21:43	Finished	CCB R231227C
73	N062272-011A,SAMF	18	1000	Unknown	01/11/2024 21:53	Finished	SAMP,2>10 mL
74	N062272-011AMS,MS	19	1000	Unknown	01/11/2024 22:02	Finished	MS (1ppb), IWST-231228B,2>1
75	MB-2.MBLK,1,	20	1000	Unknown	01/11/2024 22:12	Finished	MB R231227C
76	LCS-2.LCS,1,	21	1000	Unknown	01/11/2024 22:21	Finished	LCS @5ppb, IWST-231228B
77	N062307-001A,SAMF	22	1000	Unknown	01/11/2024 22:31	Finished	SAMP,10 mL
78	N062307-001ADUP,C	23	1000	Unknown	01/11/2024 22:40	Finished	DUP,10 mL
79	N062307-001AMS,MS	24	1000	Unknown	01/11/2024 22:49	Finished	MS (1ppb), IWST-231228B,10r
80	N062307-001AMSD,N	25	1000	Unknown	01/11/2024 22:59	Finished	MSD (1ppb), IWST-231228B,10
81	N062308-001A,SAMF	26	1000	Unknown	01/11/2024 23:08	Finished	SAMP,10 mL
82	N062308-002A,SAMF	27	1000	Unknown	01/11/2024 23:18	Finished	SAMP,10 mL
83	CCV-7.CCV,1,	28	1000	Unknown	01/11/2024 23:27	Finished	CCV @5ppb, IWST-231228A
84	CCB-7.CCB,1,	29	1000	Unknown	01/11/2024 23:37	Finished	CCB R231227C
85	N062309-007A,SAMF	30	1000	Unknown	01/11/2024 23:46	Finished	SAMP,10 mL
86	N062309-007AMS,MS	31	1000	Unknown	01/11/2024 23:56	Finished	MS (1ppb), IWST-231228B,10r
87	N062309-007AMSD,N	32	1000	Unknown	01/12/2024 00:05	Finished	MSD (1ppb), IWST-231228B,10
88	N062309-008A,SAMF	33	1000	Unknown	01/12/2024 00:15	Finished	SAMP,10 mL
89	N062309-008AMS,MS	34	1000	Unknown	01/12/2024 00:24	Finished	MS (1ppb), IWST-231228B,10r
90	N062309-008AMSD,N	35	1000	Unknown	01/12/2024 00:33	Finished	MSD (1ppb), IWST-231228B,10
91	N062309-001A,SAMF	36	1000	Unknown	01/12/2024 00:43	Finished	SAMP,0.2>10 mL
92	N062309-002A,SAMF	37	1000	Unknown	01/12/2024 00:52	Finished	SAMP,10 mL
93	N062309-003A,SAMF	38	1000	Unknown	01/12/2024 01:02	Finished	SAMP,2>10 mL
94	N062309-004A,SAMF	39	1000	Unknown	01/12/2024 01:11	Finished	SAMP,10 mL
95	CCV-8.CCV1,1,	40	1000	Unknown	01/12/2024 01:21	Finished	CCV @10ppb, IWST-231228A
96	CCB-8.CCB,1,	41	1000	Unknown	01/12/2024 01:30	Finished	CCB R231227C
97	N062309-005A,SAMF	42	1000	Unknown	01/12/2024 01:40	Finished	SAMP,2>10 mL
98	N062309-006A,SAMF	43	1000	Unknown	01/12/2024 01:49	Finished	SAMP,10 mL
99	N062309-009A,SAMF	44	1000	Unknown	01/12/2024 01:59	Finished	SAMP,10 mL
100	N062309-010A,SAMF	45	1000	Unknown	01/12/2024 02:08	Finished	SAMP,10 mL
101	N062272-004AMS,MS	46	1000	Unknown	01/12/2024 02:18	Finished	MS (5ppb), IWST-231228B,10r
102	CCV-9.CCV,1,	47	1000	Unknown	01/12/2024 02:27	Finished	CCV @5ppb, IWST-231228A
103	CCB-9.CCB,1,	48	1000	Unknown	01/12/2024 02:36	Finished	CCB R231227C
104	BLANK	49	1000	Unknown	01/12/2024 02:46	Finished	BLANK
105	SHUTDOWN	50	1000	Unknown	01/12/2024 02:55	Finished	
106	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
107	PCR: R240108B	CurrentVial	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 10:43	Sample Weight:	1.0000

Chromatogram



Integration Results

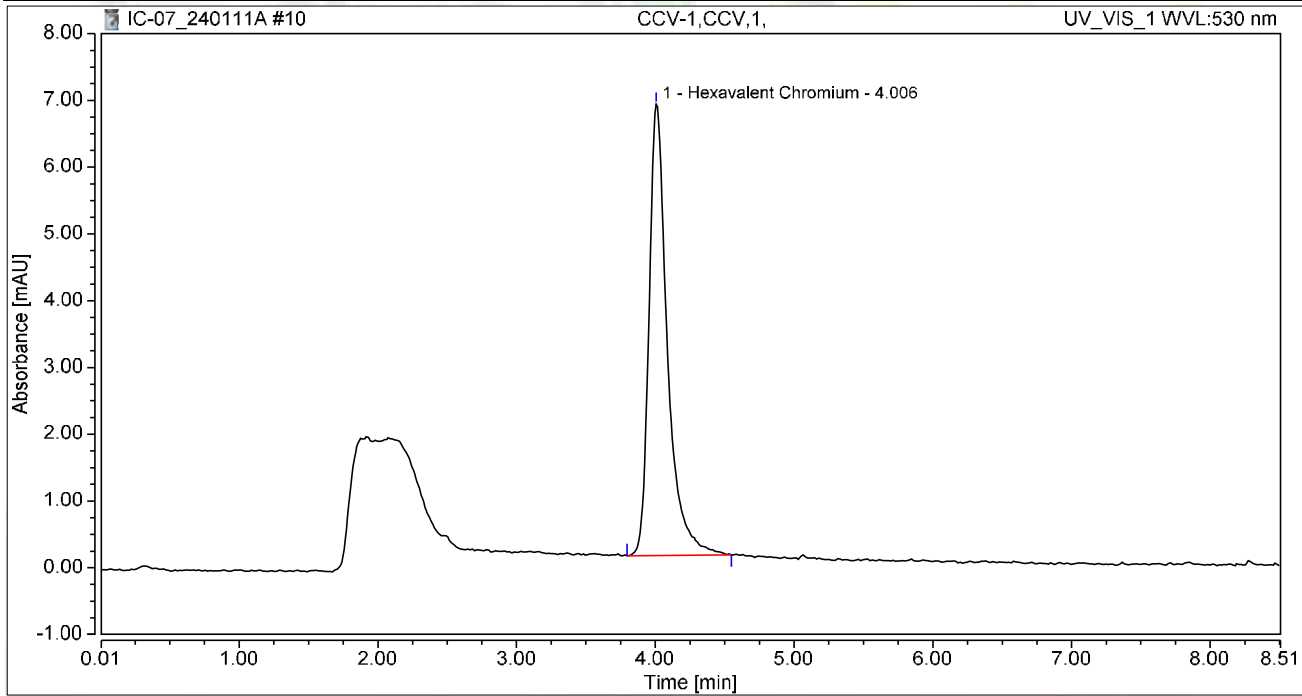
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 10:54	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.040	6.756	100.00	100.00	4.9981
Total:			1.040	6.756	100.00	100.00	

Reviewed by:

jrb

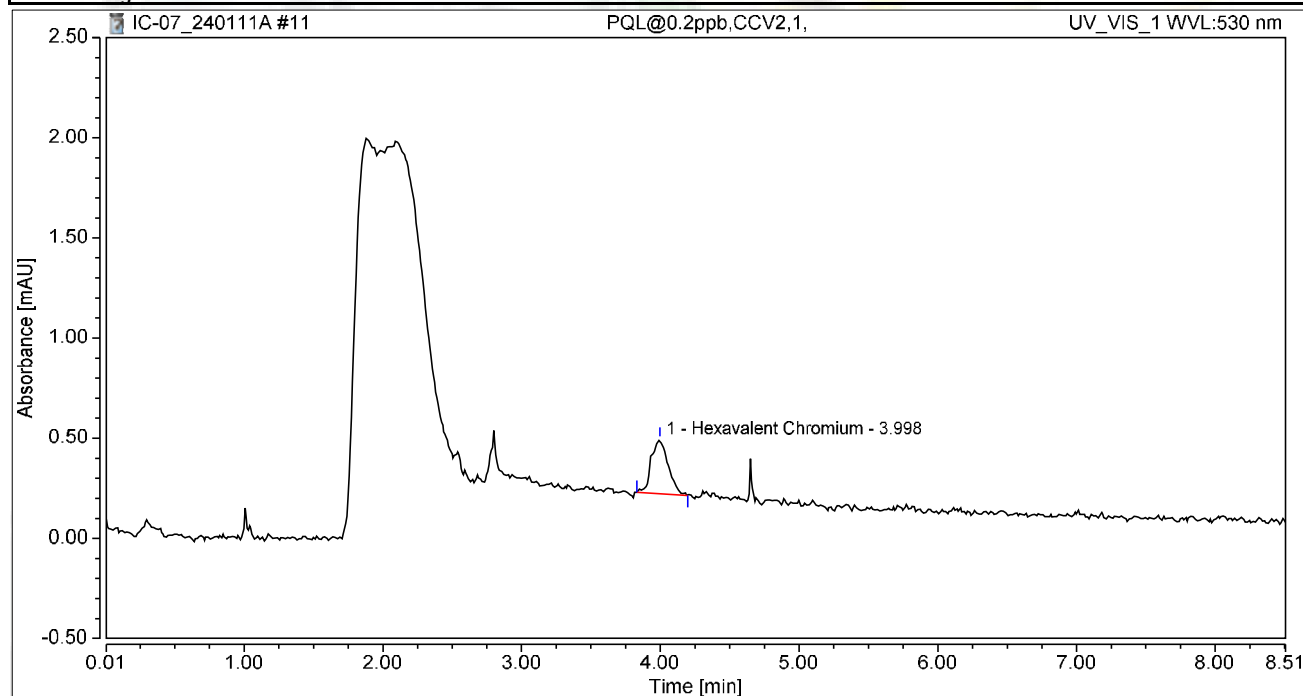
1/16/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:03	Sample Weight:	1.0000

Chromatogram



Integration Results

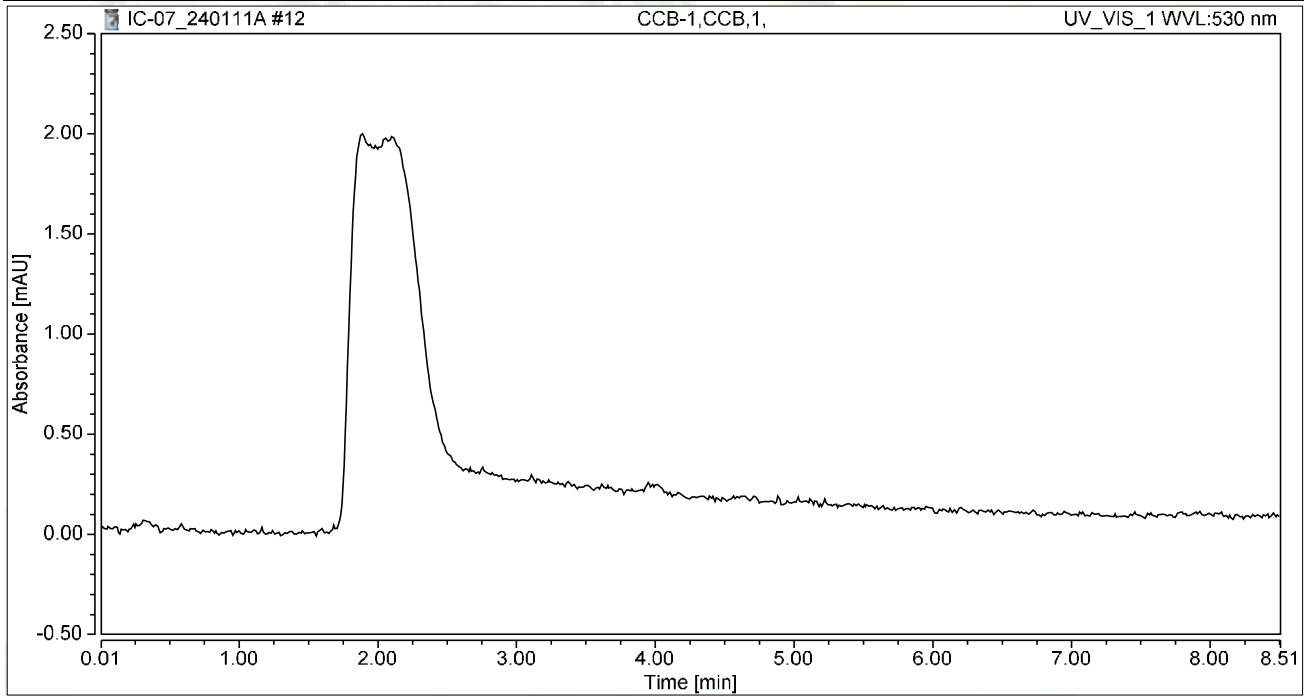
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.038	0.272	100.00	100.00	0.1837
Total:			0.038	0.272	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:13	Sample Weight:	1.0000

Chromatogram



Integration Results

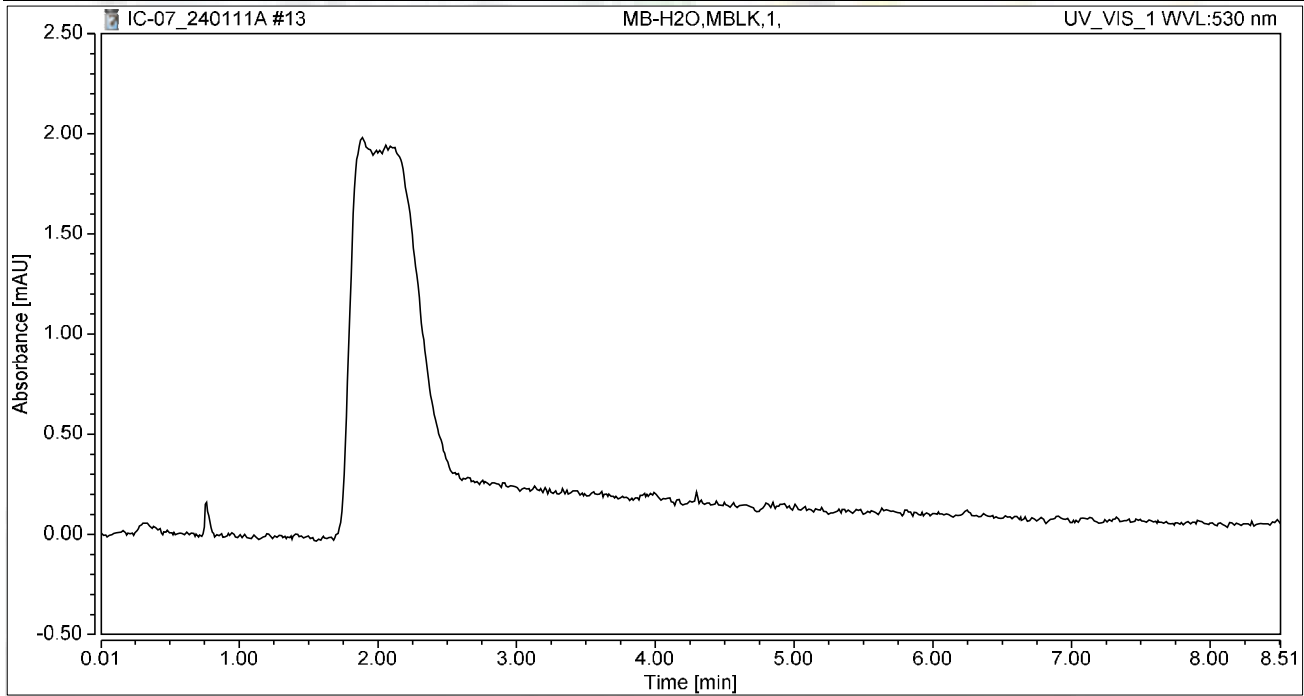
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 11:22	Sample Weight:	1.0000

Chromatogram



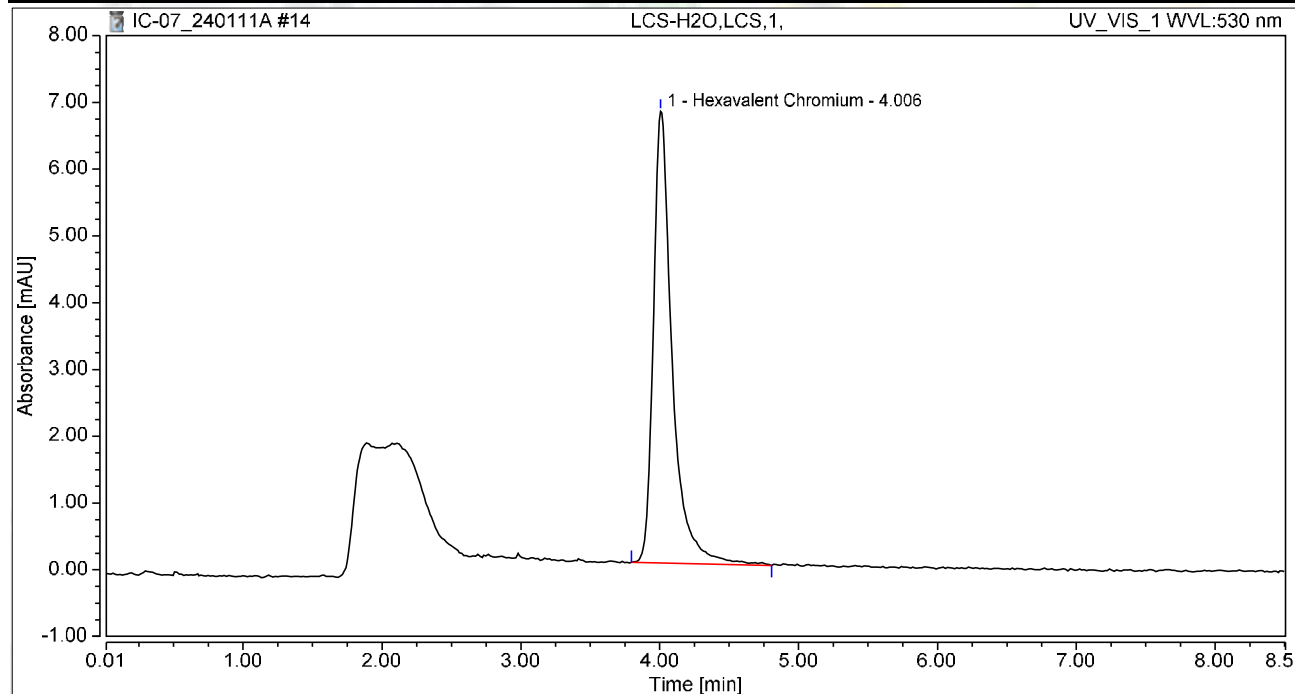
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	LCS-H2O,LCS,1,	Run Time (min): 8.49
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 11:32	Sample Weight: 1.0000

Chromatogram

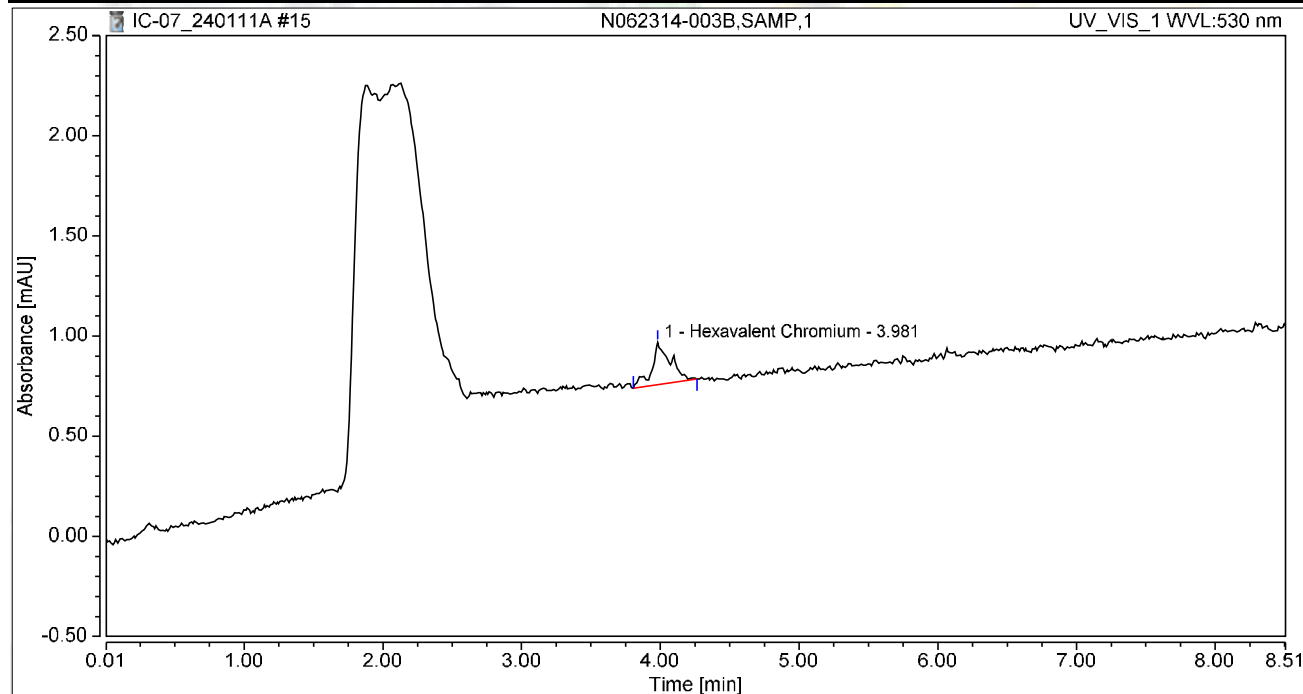


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.062	6.763	100.00	100.00	5.1030
Total:			1.062	6.763	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062314-003B,SAMP,1	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 11:58	Sample Weight: 1.0000

Chromatogram



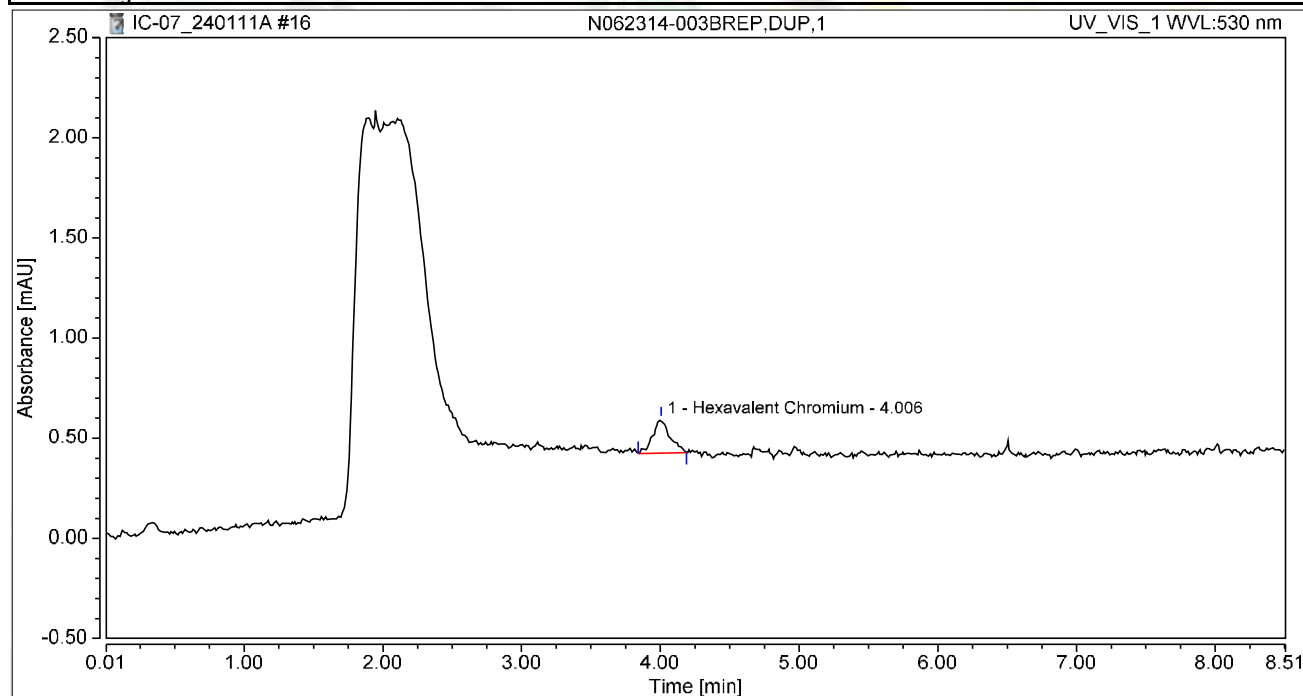
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.033	0.211	100.00	100.00	0.1563
Total:			0.033	0.211	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062314-003BREP,DUP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

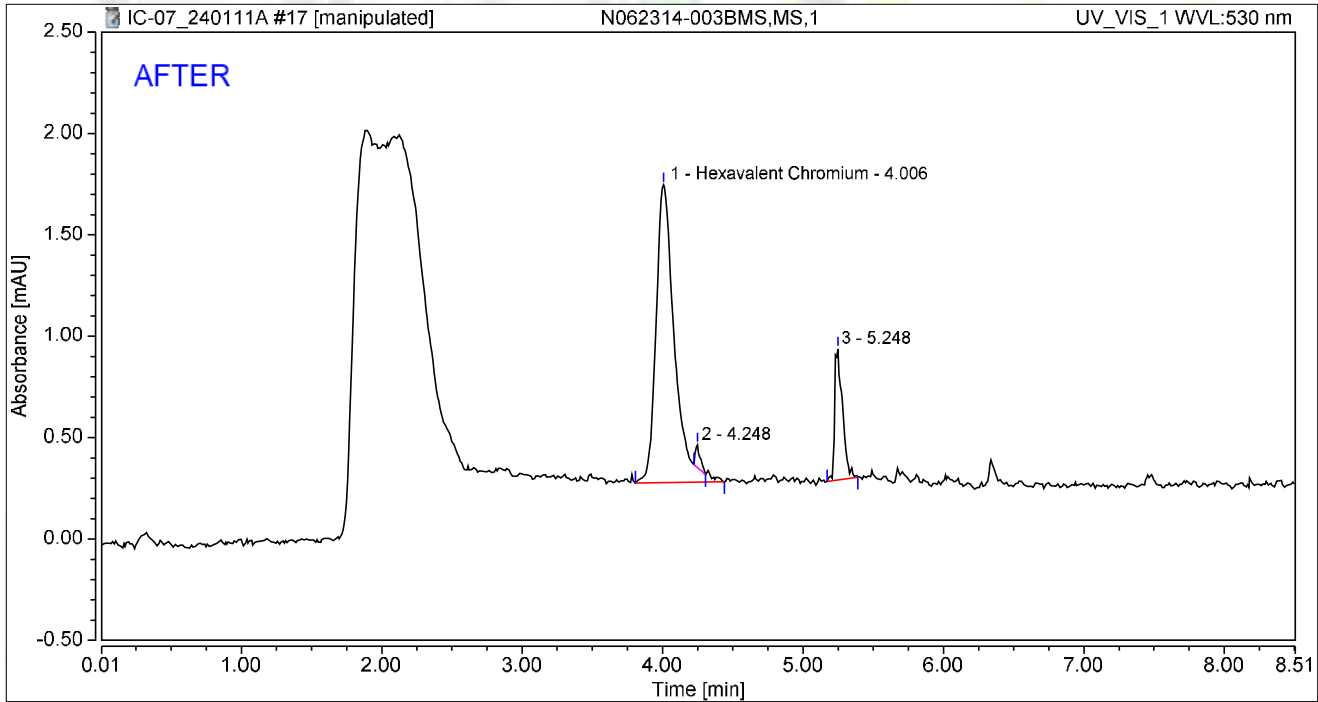
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.024	0.171	100.00	100.00	0.1172
Total:			0.024	0.171	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062314-003BMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:21	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.224	1.469	83.25	65.94	1.0756
2		4.248	0.005	0.112	1.68	5.02	n.a.
3		5.248	0.041	0.647	15.07	29.04	n.a.
Total:			0.269	2.228	100.00	100.00	

Reviewed by:

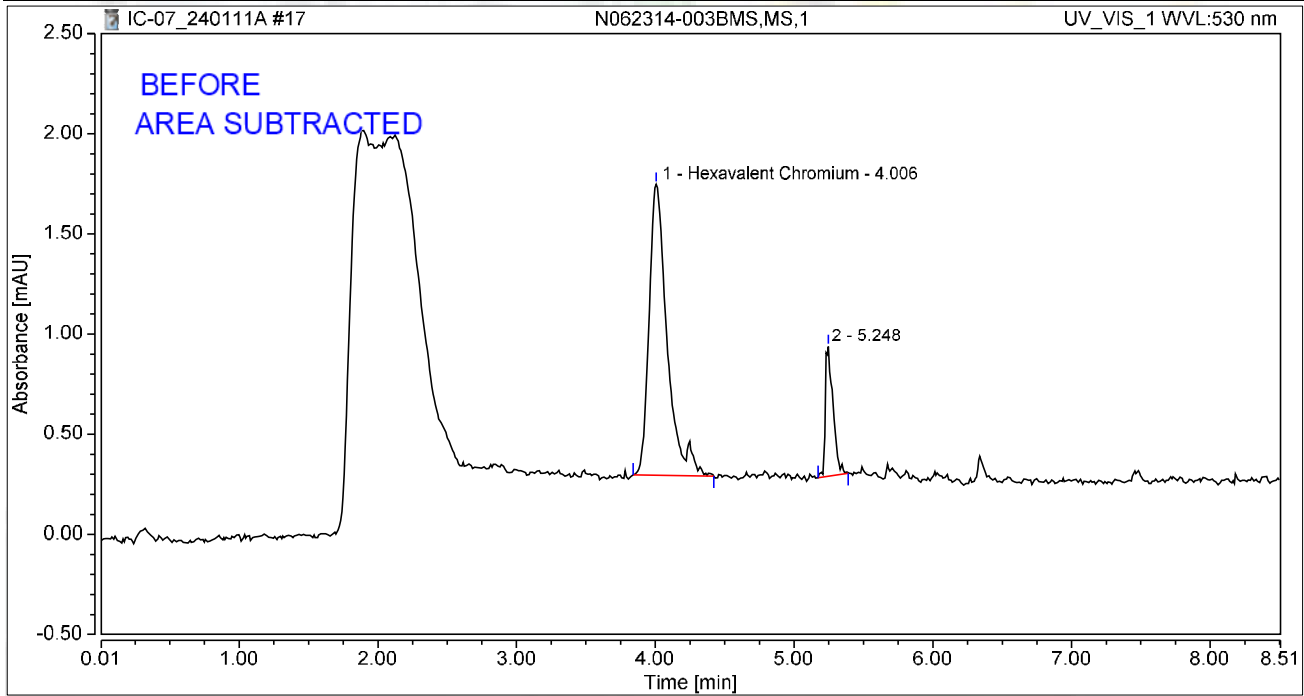
JRB 1/16/2024

Chromatogram and Results

Injection Details

Injection Name:	N062314-003BMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 12:21	Sample Weight:	1.0000

Chromatogram



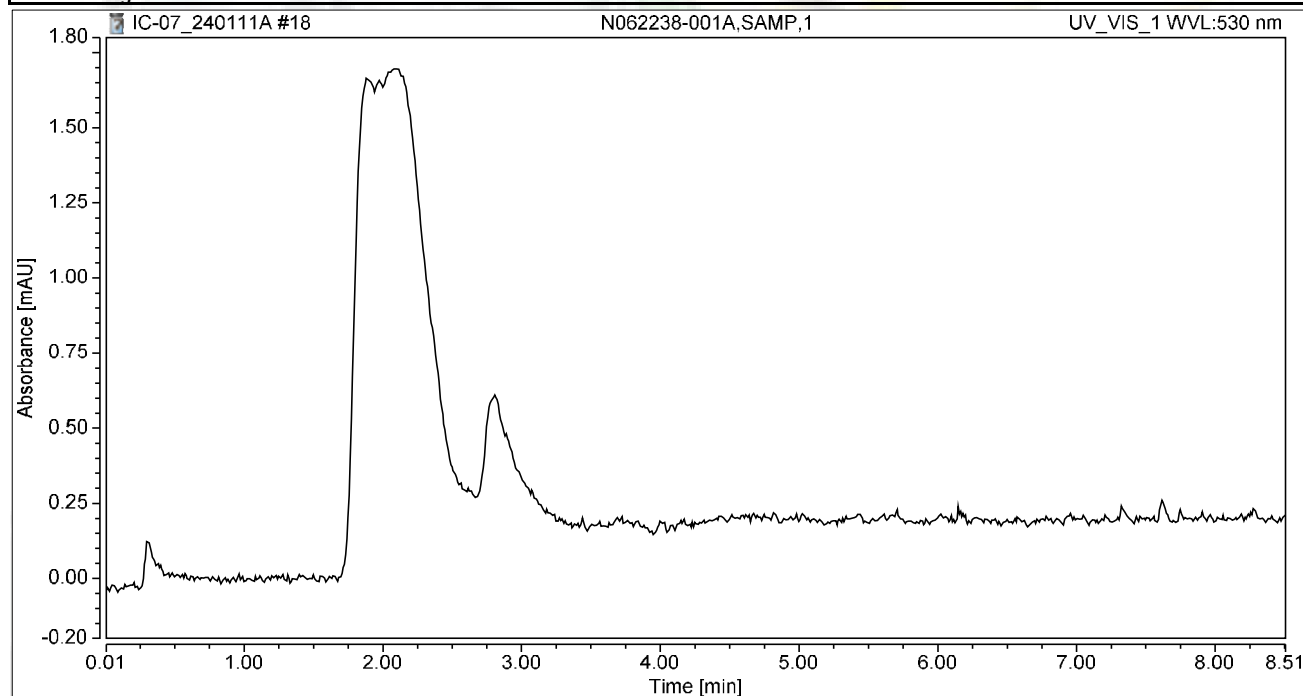
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.219	1.452	84.40	69.17	1.0537
2		5.248	0.041	0.647	15.60	30.83	n.a.
Total:			0.260	2.099	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062238-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 12:50	Sample Weight: 1.0000

Chromatogram

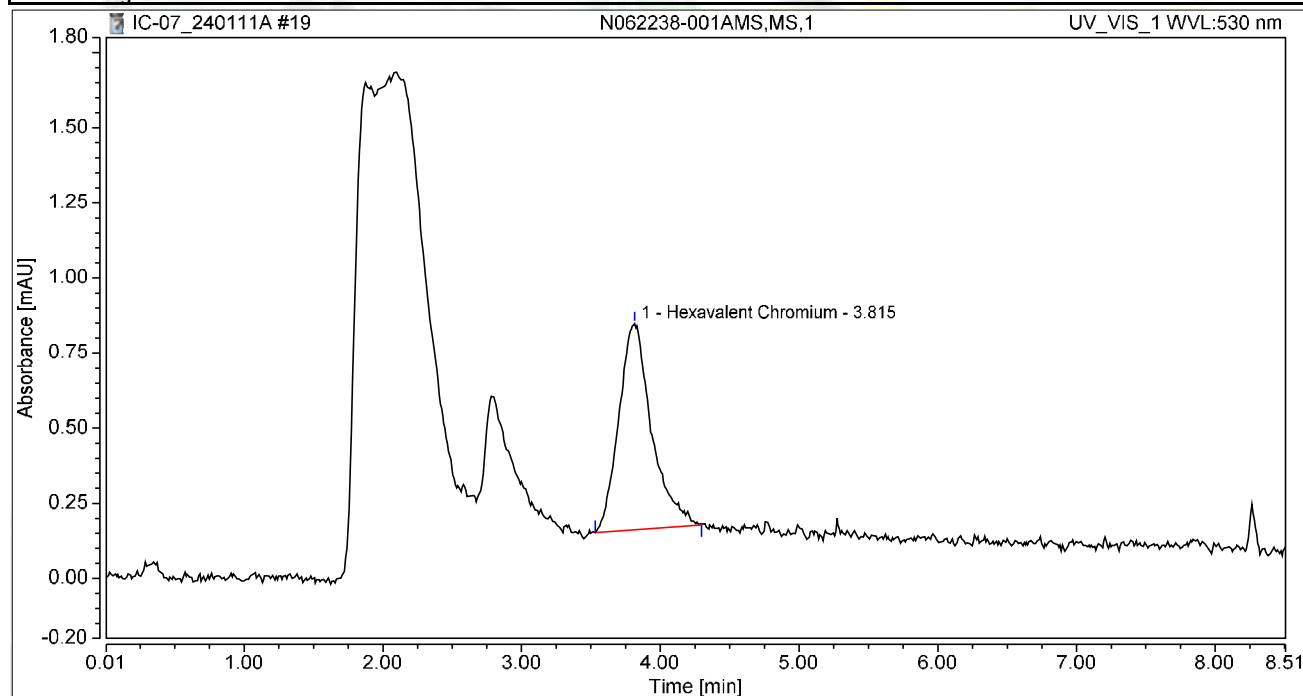


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062238-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:03	Sample Weight: 1.0000

Chromatogram

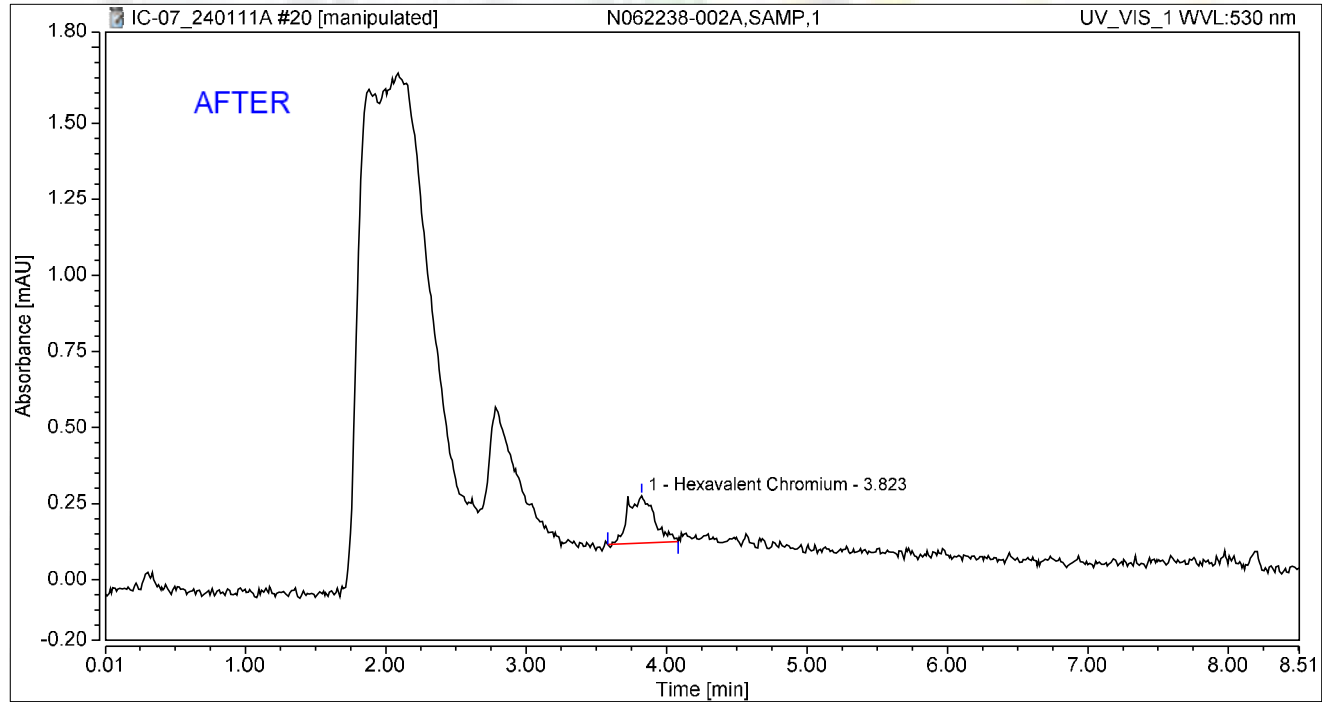


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.188	0.686	100.00	100.00	0.9030
Total:			0.188	0.686	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062238-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:13	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.033	0.156	100.00	100.00	0.1605
Total:			0.033	0.156	100.00	100.00	

Reviewed by:

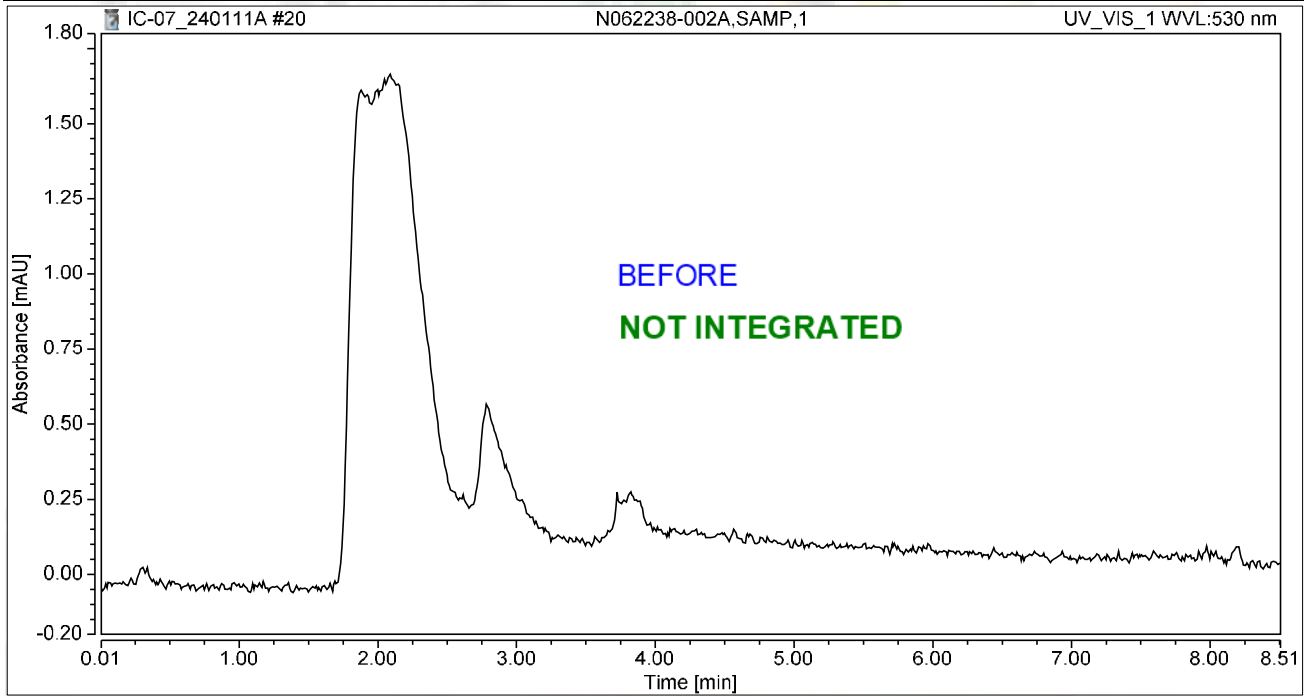
JRB 1/16/2024

Chromatogram and Results

Injection Details

Injection Name:	N062238-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

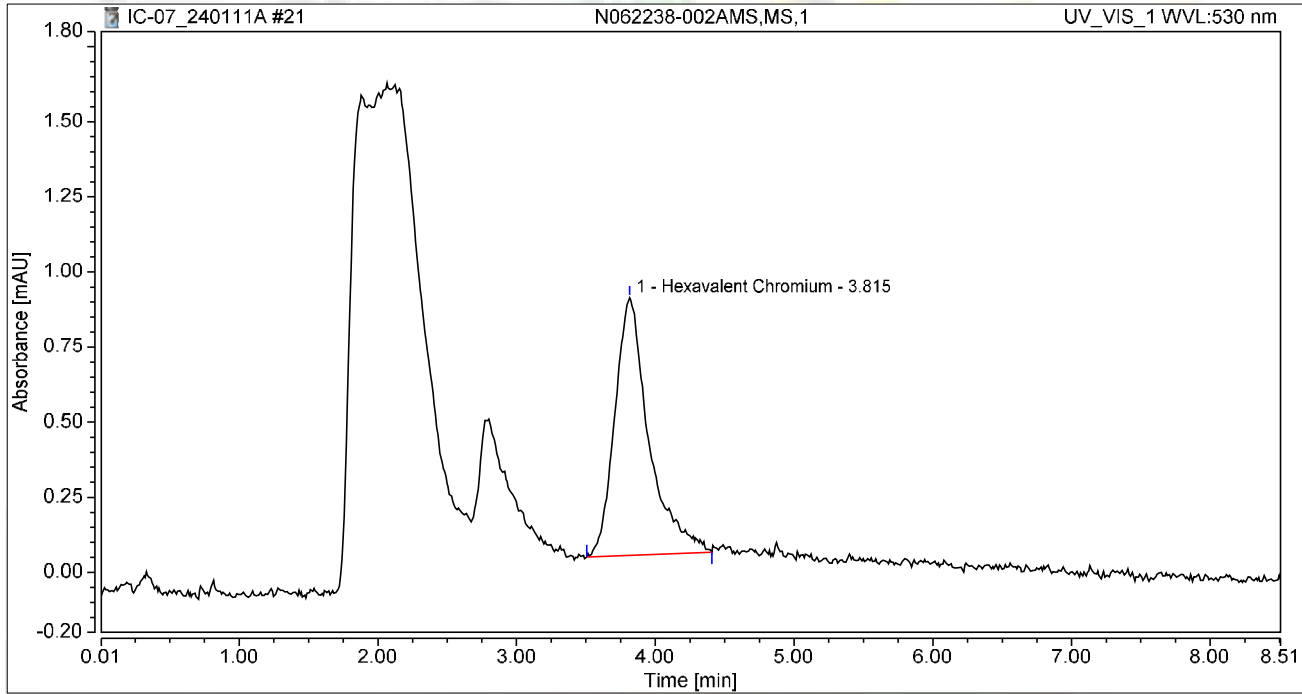
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:22	Sample Weight:	1.0000

Chromatogram



Integration Results

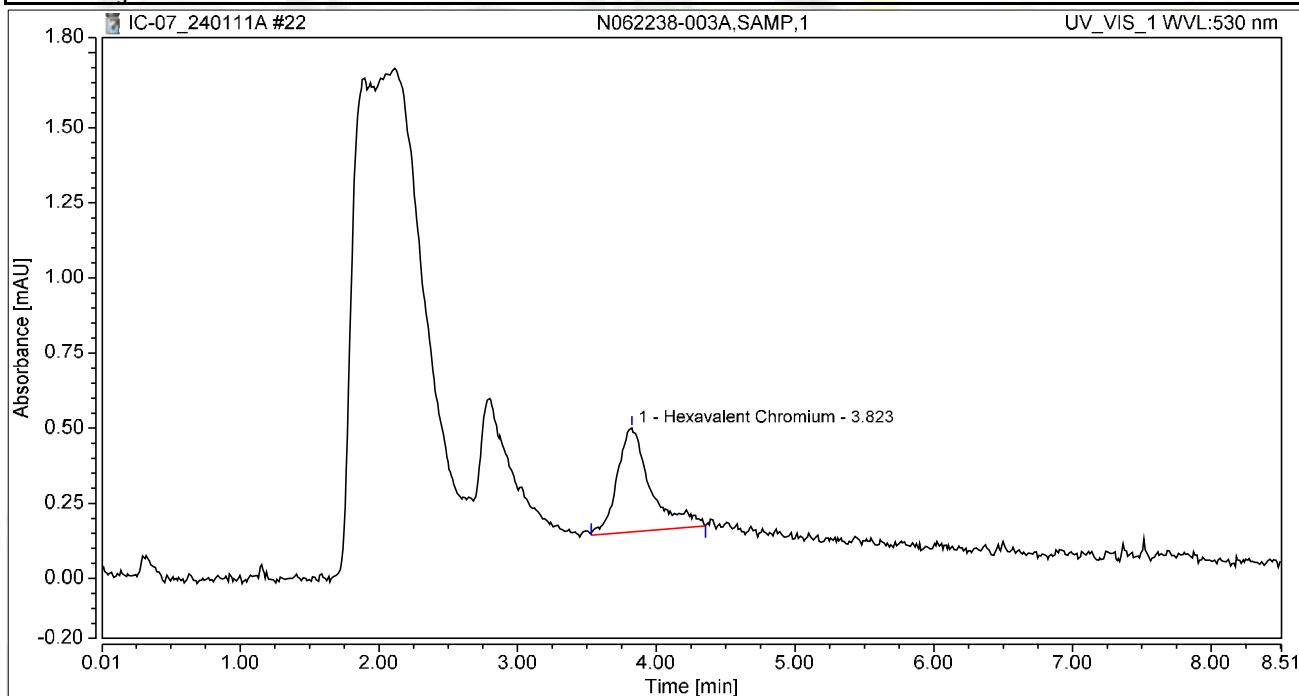
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.244	0.857	100.00	100.00	1.1724
Total:			0.244	0.857	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062238-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:31	Sample Weight:	1.0000

Chromatogram



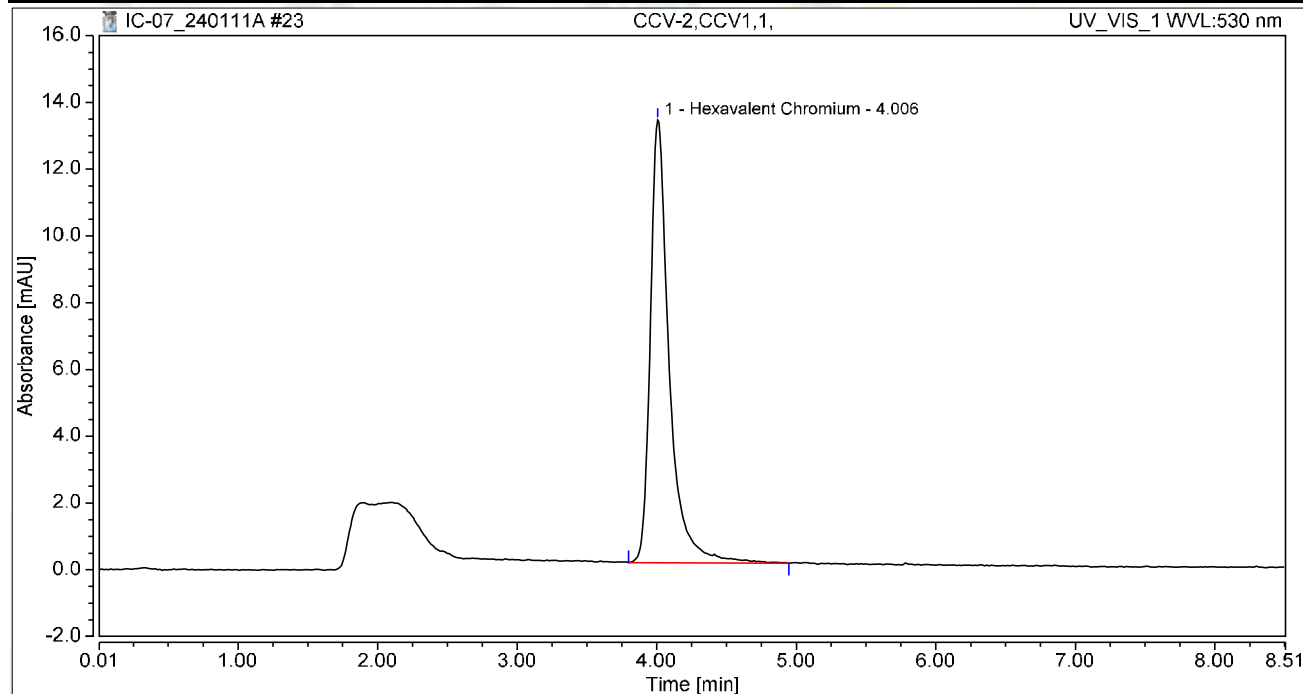
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.097	0.345	100.00	100.00	0.4638
Total:			0.097	0.345	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-2,CCV1,1,	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 13:41	Sample Weight: 1.0000

Chromatogram



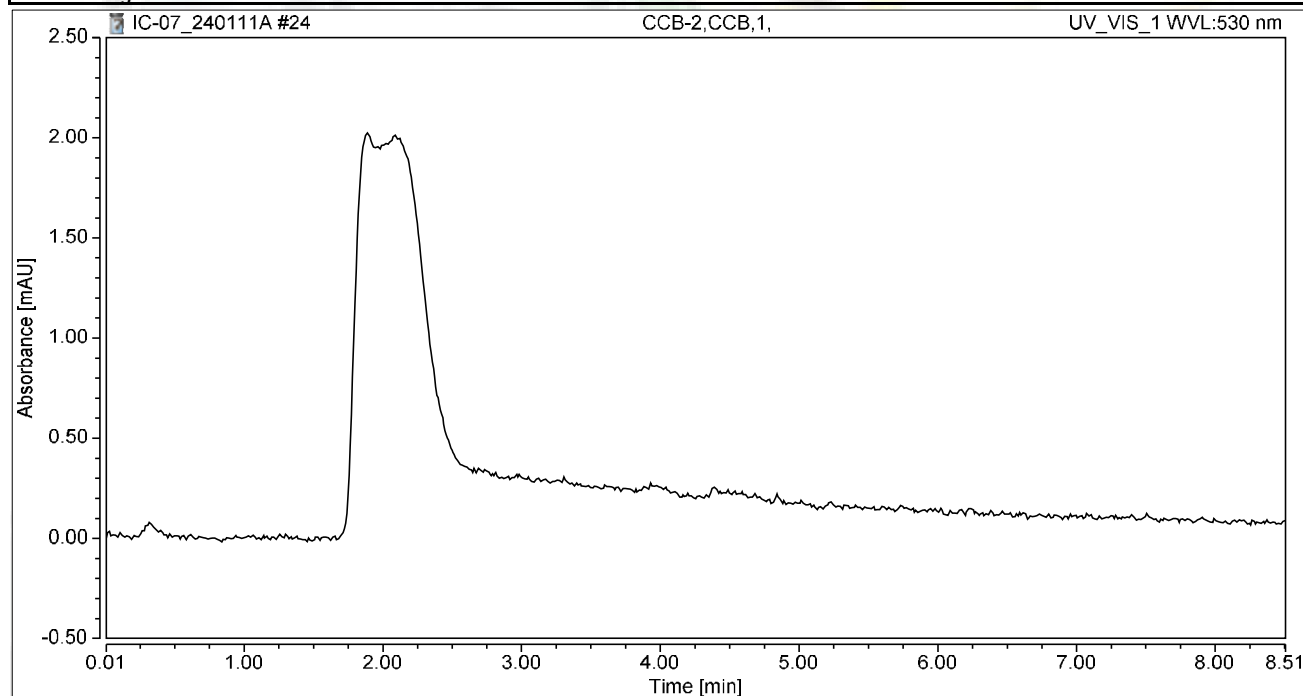
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.084	13.259	100.00	100.00	10.0134
Total:			2.084	13.259	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 13:50	Sample Weight:	1.0000

Chromatogram



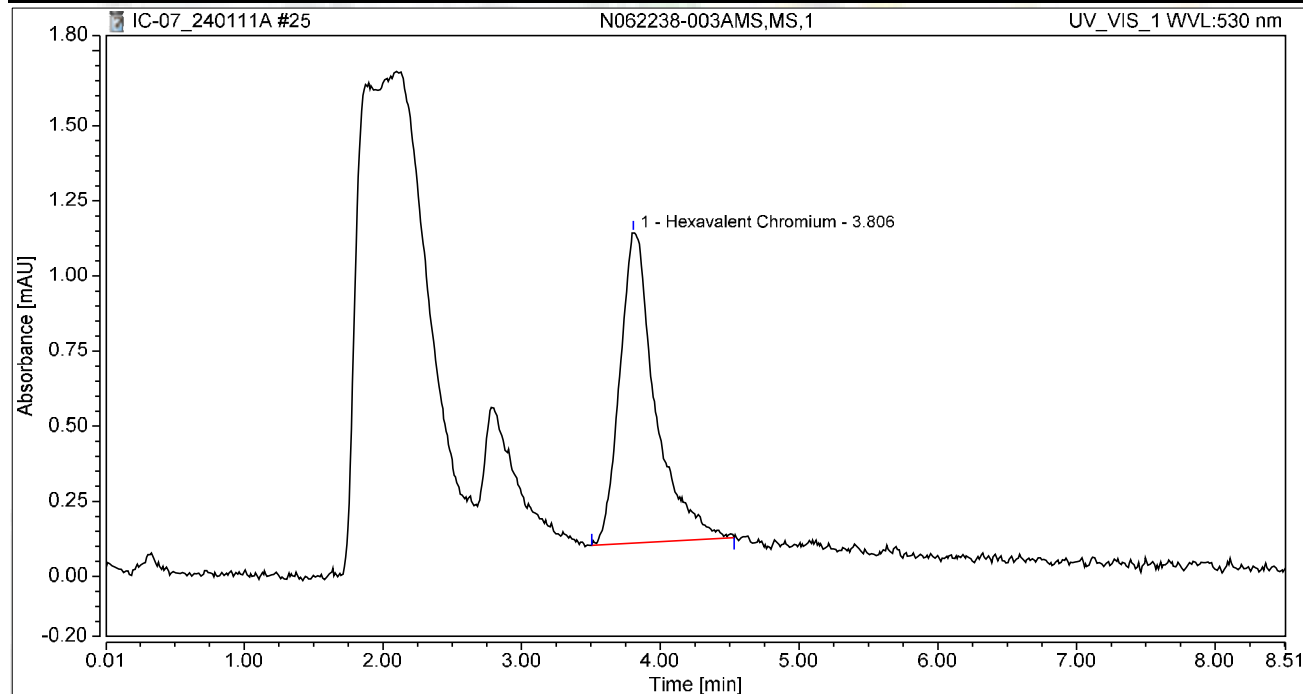
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062238-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:00	Sample Weight: 1.0000

Chromatogram

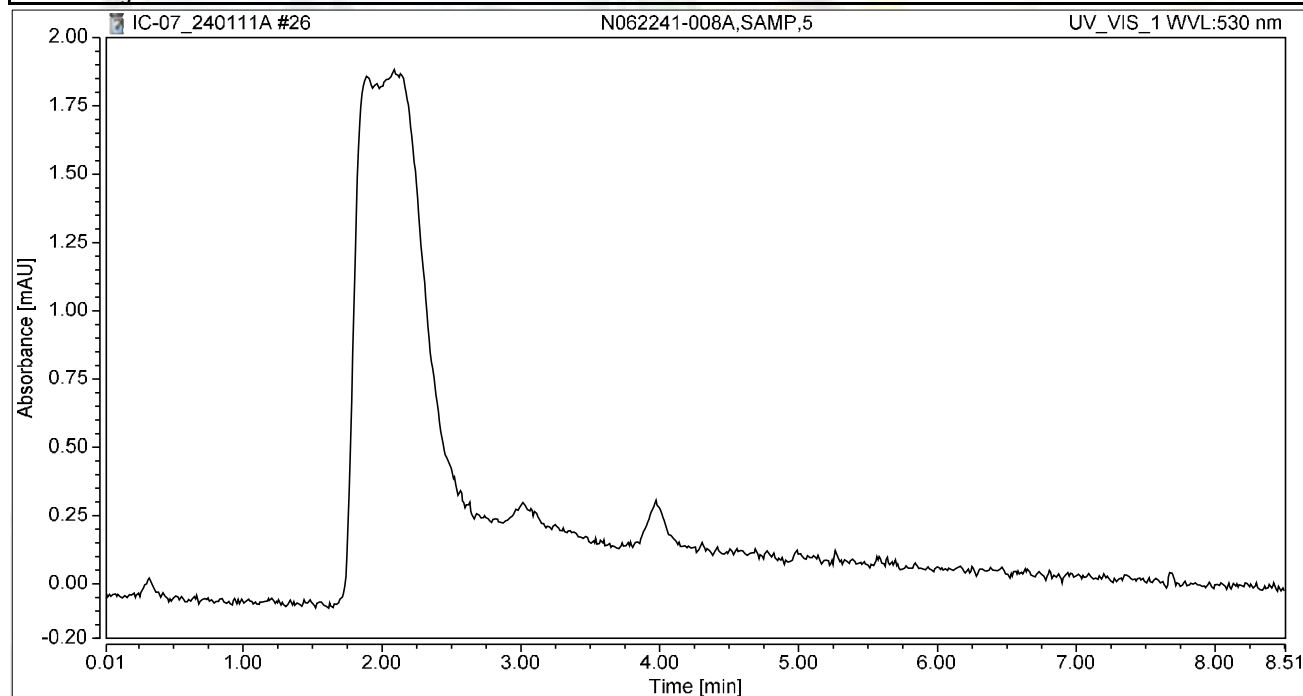


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.307	1.033	100.00	100.00	1.4764
Total:			0.307	1.033	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062241-008A,SAMP,5	Run Time (min): 8.49
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:09	Sample Weight: 1.0000

Chromatogram



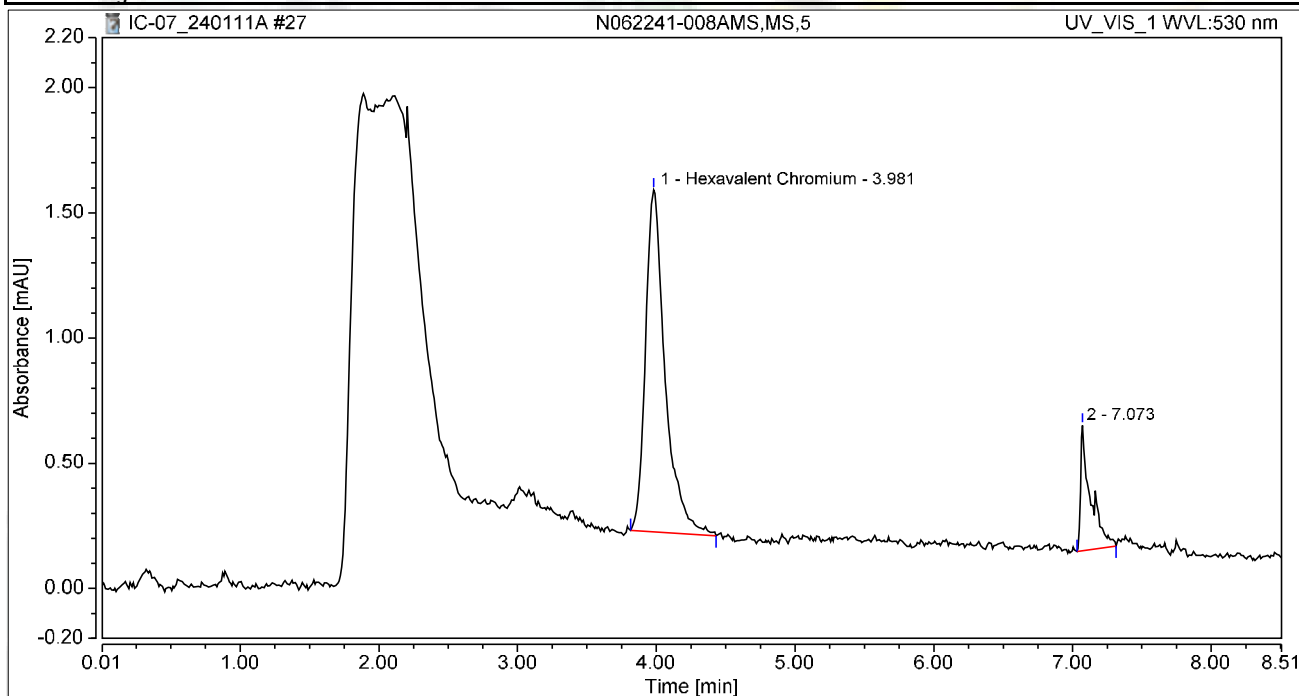
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062241-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 14:21	Sample Weight:	1.0000

Chromatogram



Integration Results

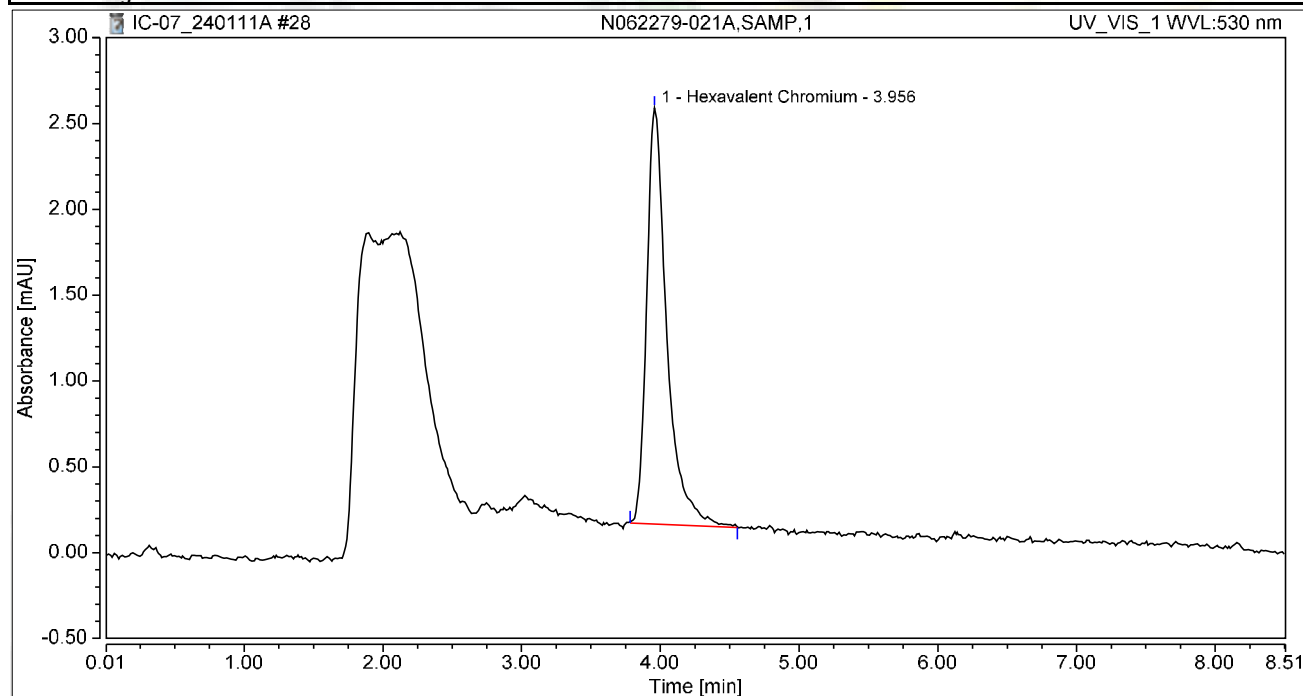
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.224	1.366	84.04	73.17	1.0768
2		7.073	0.043	0.501	15.96	26.83	n.a.
Total:			0.267	1.866	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062279-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 14:33	Sample Weight:	1.0000

Chromatogram



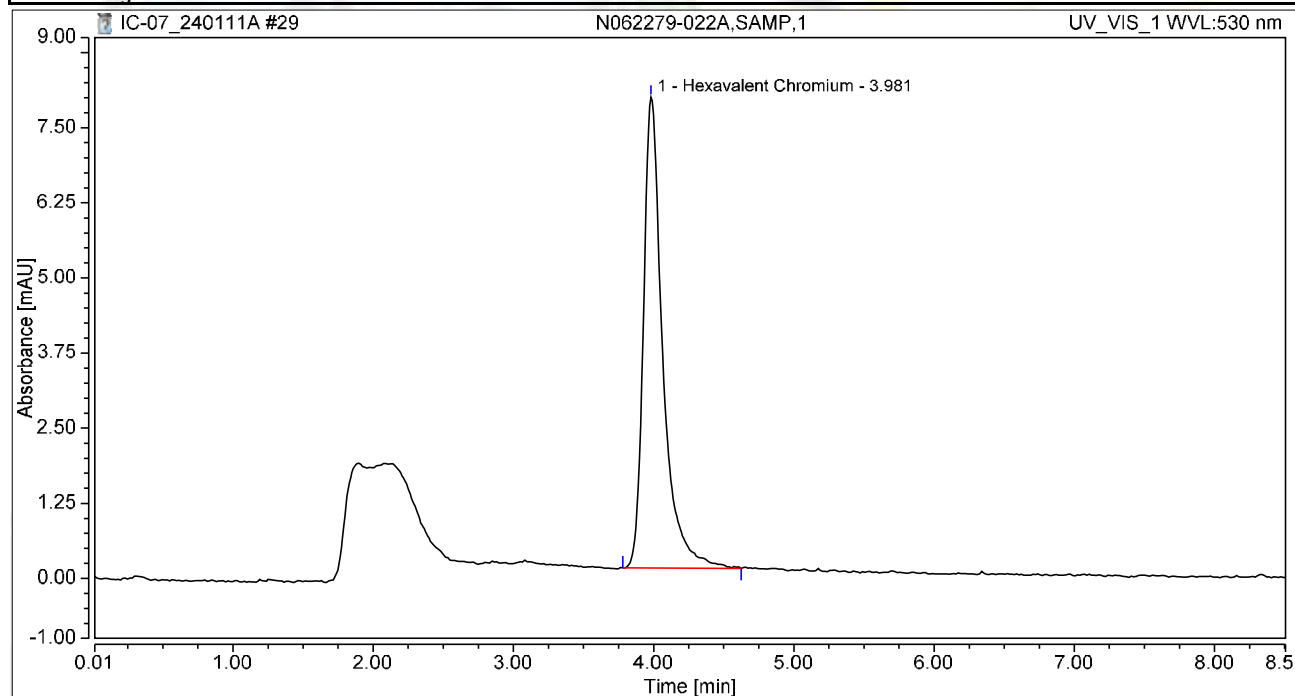
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.956	0.408	2.422	100.00	100.00	1.9596
Total:			0.408	2.422	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062279-022A,SAMP,1	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 14:42	Sample Weight: 1.0000

Chromatogram



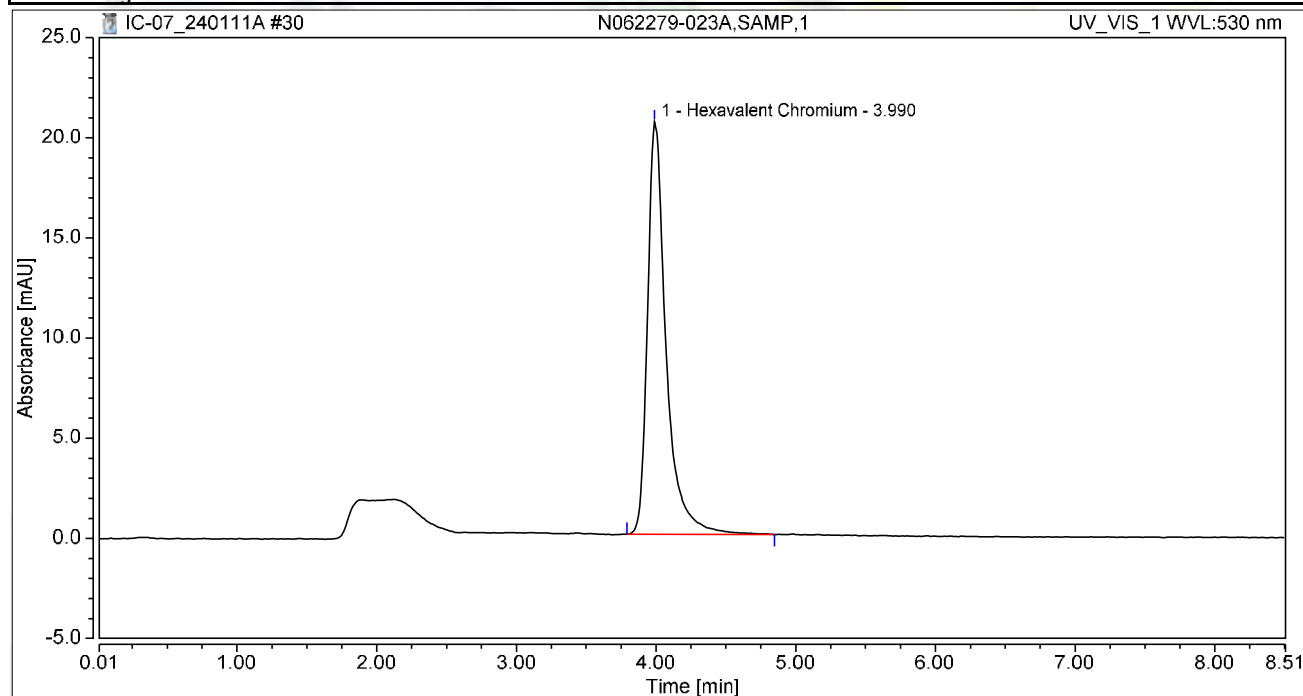
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.251	7.833	100.00	100.00	6.0099
Total:			1.251	7.833	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062279-023A,SAMP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

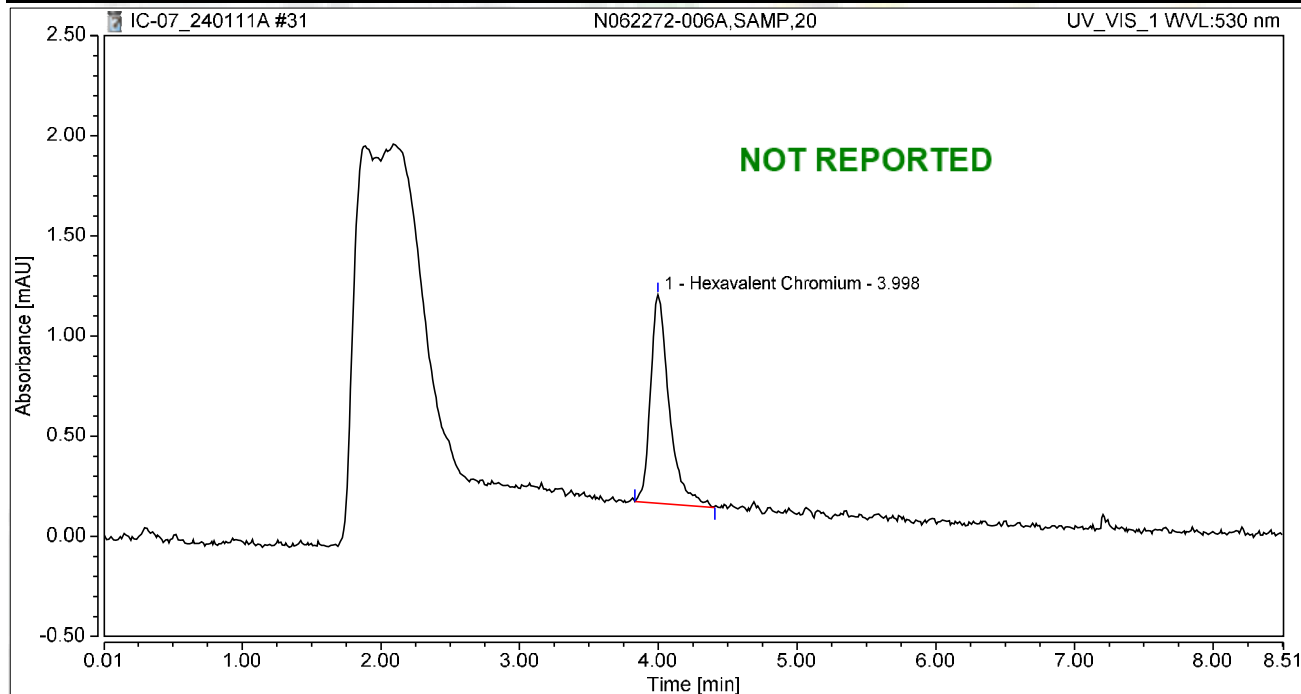
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	3.185	20.601	100.00	100.00	15.3054
Total:			3.185	20.601	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006A,SAMP,20	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

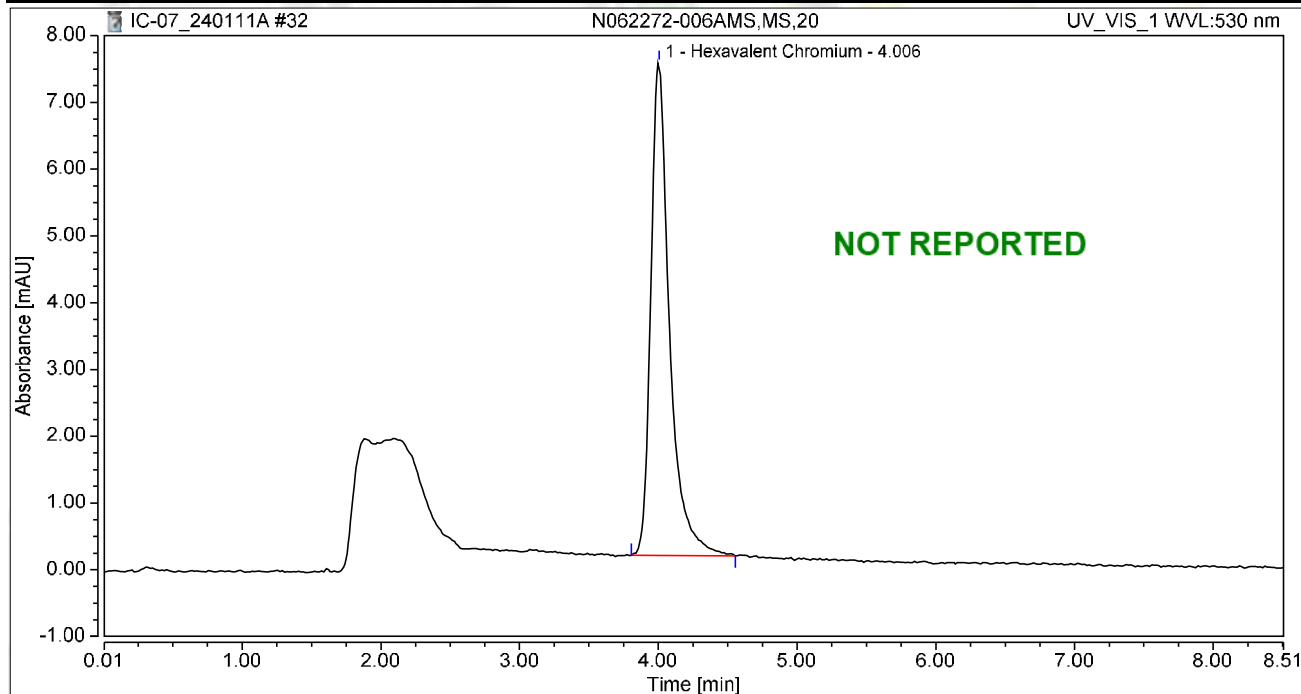
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.163	1.042	100.00	100.00	0.7843
Total:			0.163	1.042	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006AMS,MS,20	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

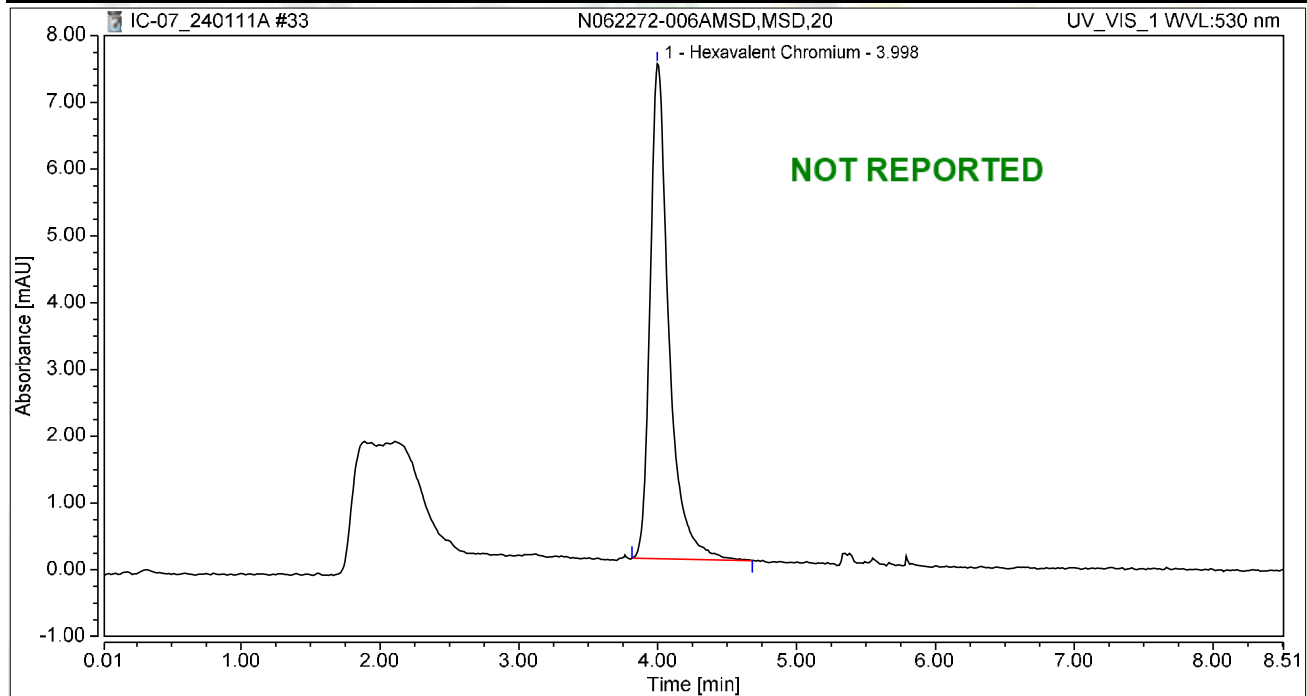
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.157	7.379	100.00	100.00	5.5611
Total:			1.157	7.379	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-006AMSD,MSD,20	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:20	Sample Weight:	1.0000

Chromatogram



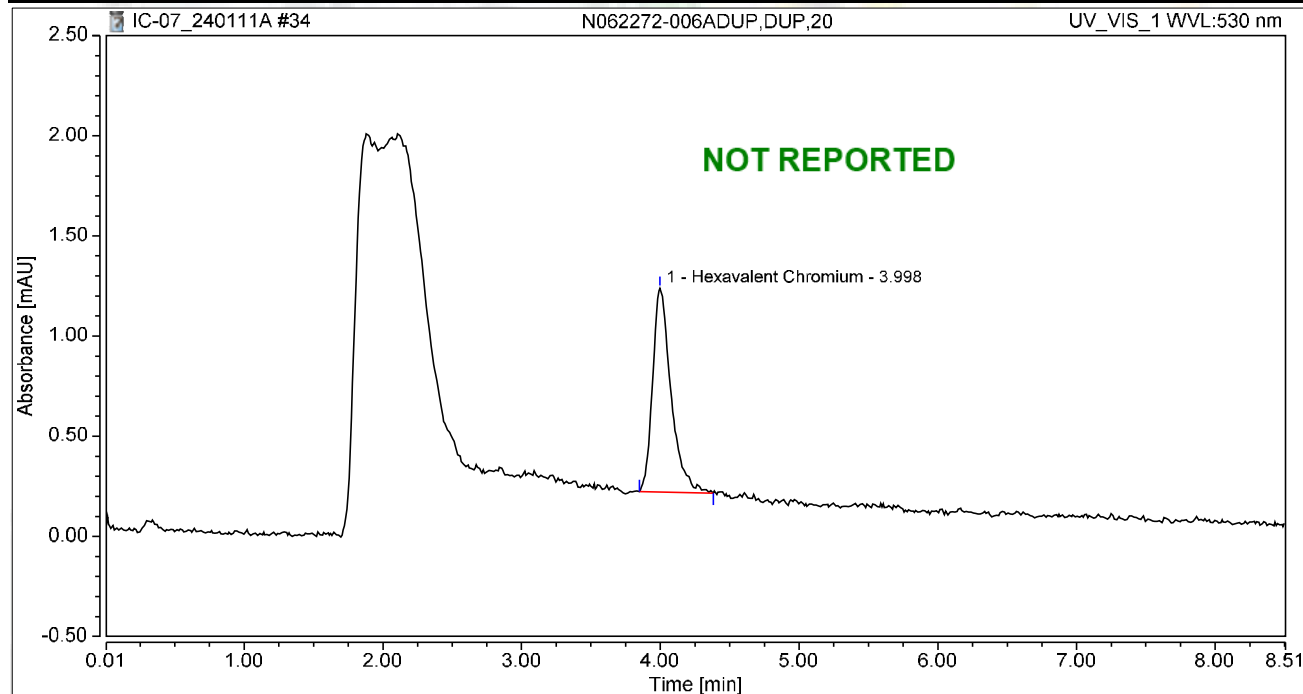
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.165	7.416	100.00	100.00	5.5992
Total:			1.165	7.416	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-006ADUP,DUP,20	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 15:29	Sample Weight: 1.0000

Chromatogram



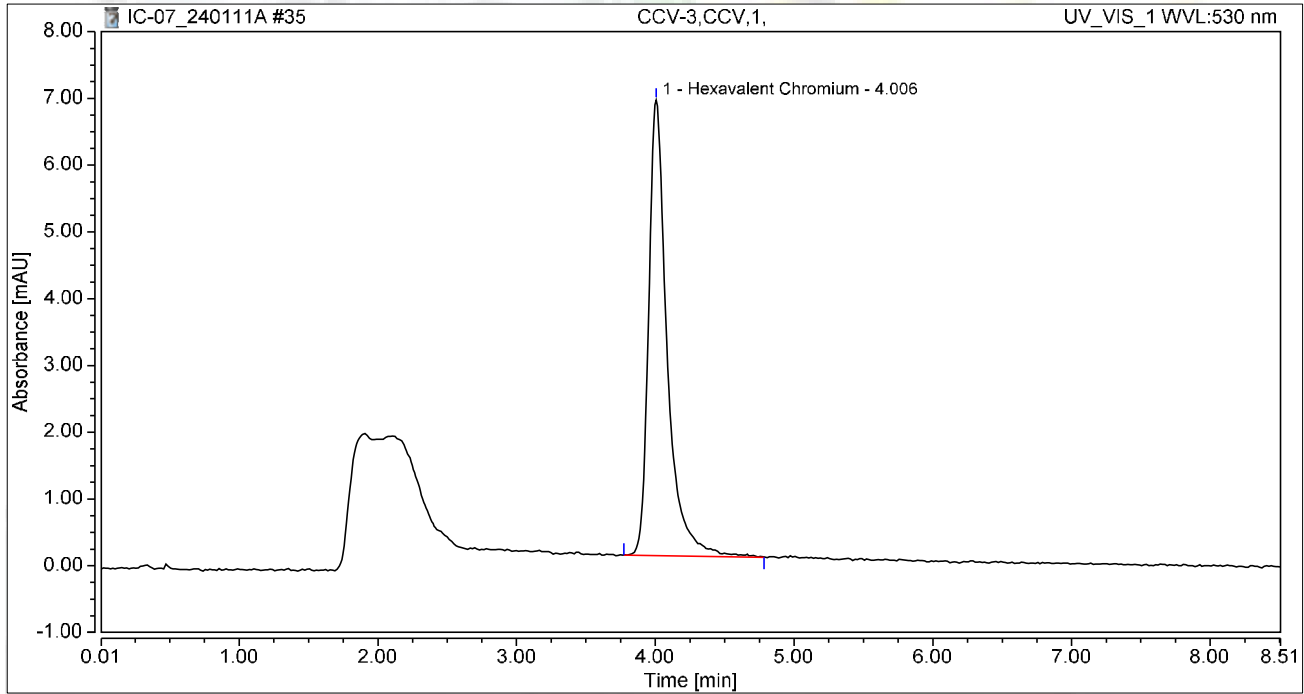
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.157	1.017	100.00	100.00	0.7543
Total:			0.157	1.017	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

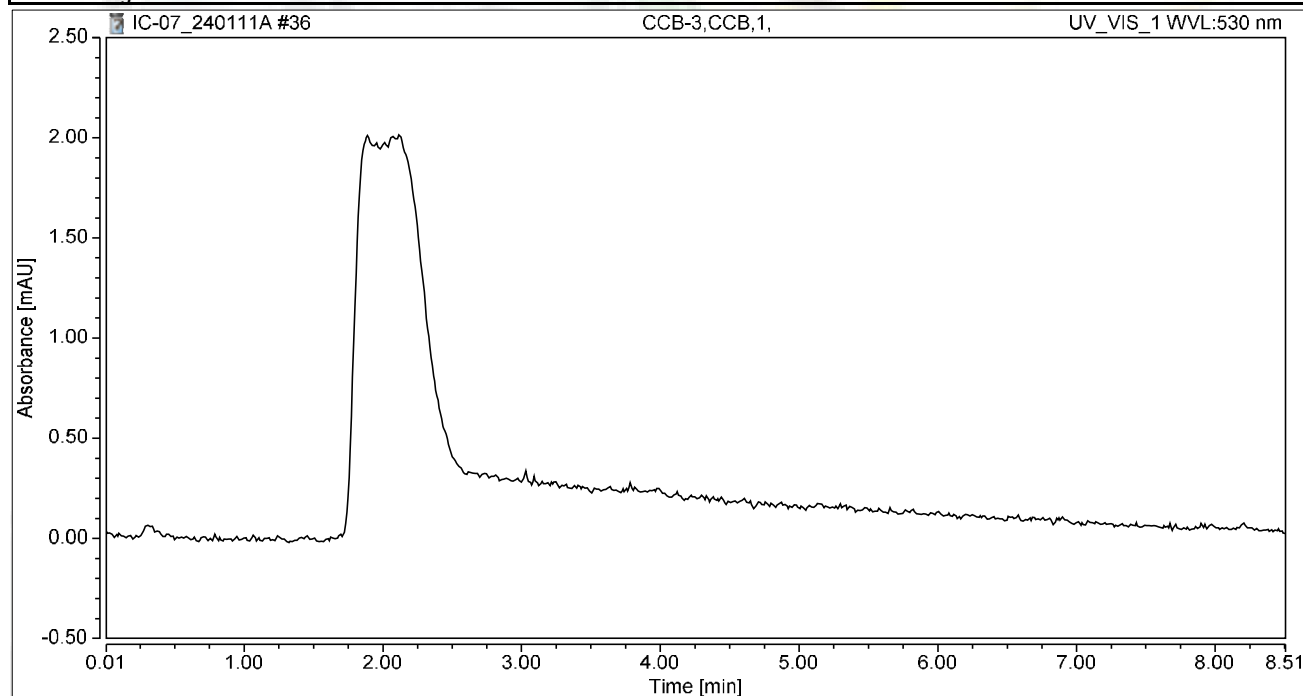
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.061	6.825	100.00	100.00	5.1008
Total:			1.061	6.825	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

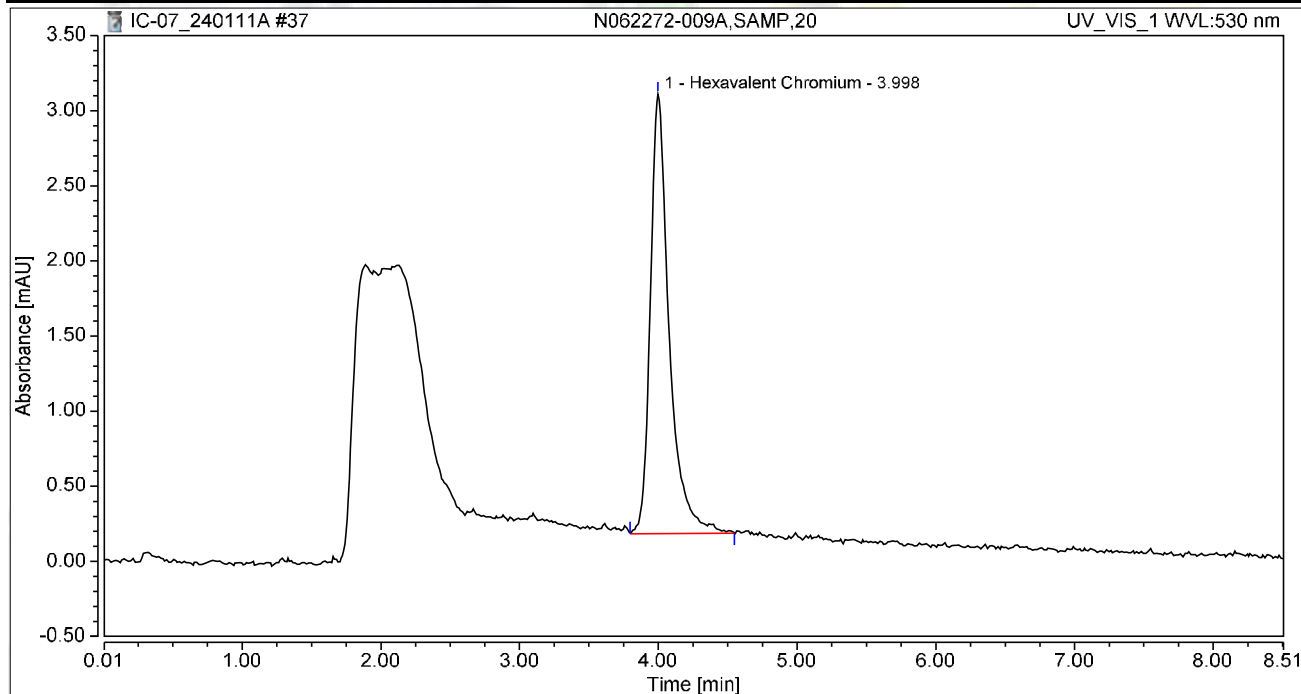
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-009A,SAMP,20	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 15:58	Sample Weight:	1.0000

Chromatogram



Integration Results

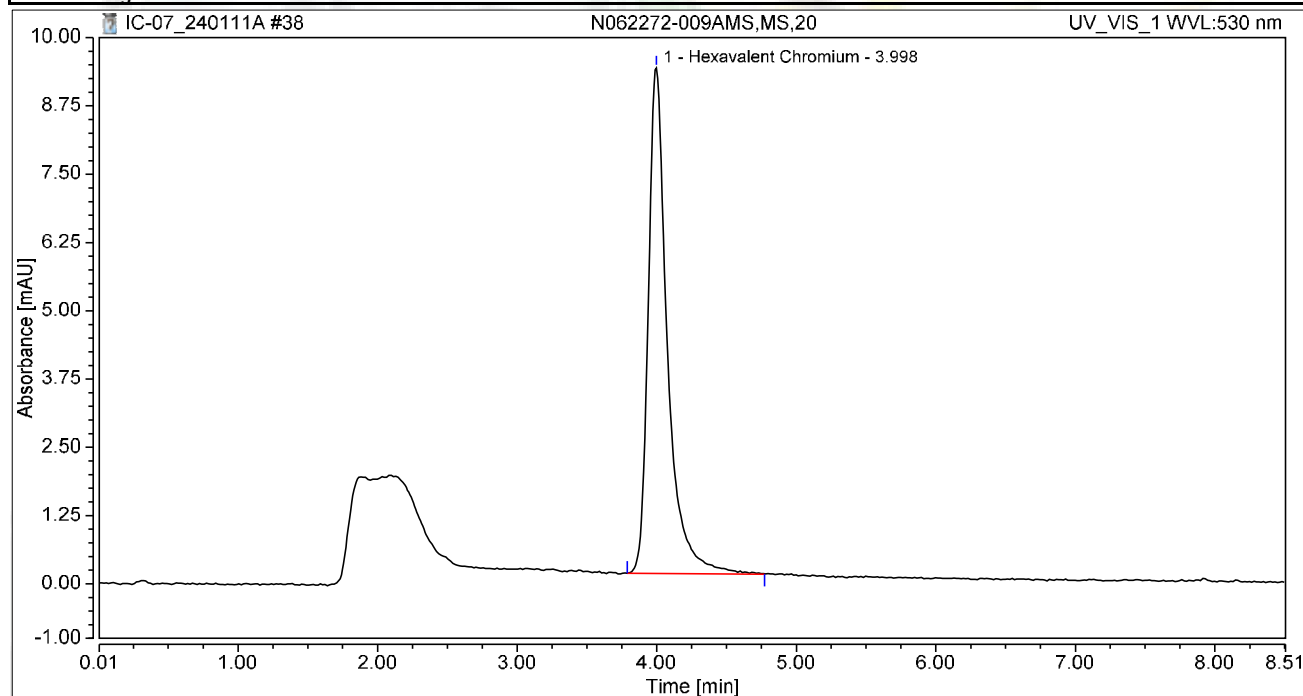
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.461	2.926	100.00	100.00	2.2154
Total:			0.461	2.926	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-009AMS,MS,20	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

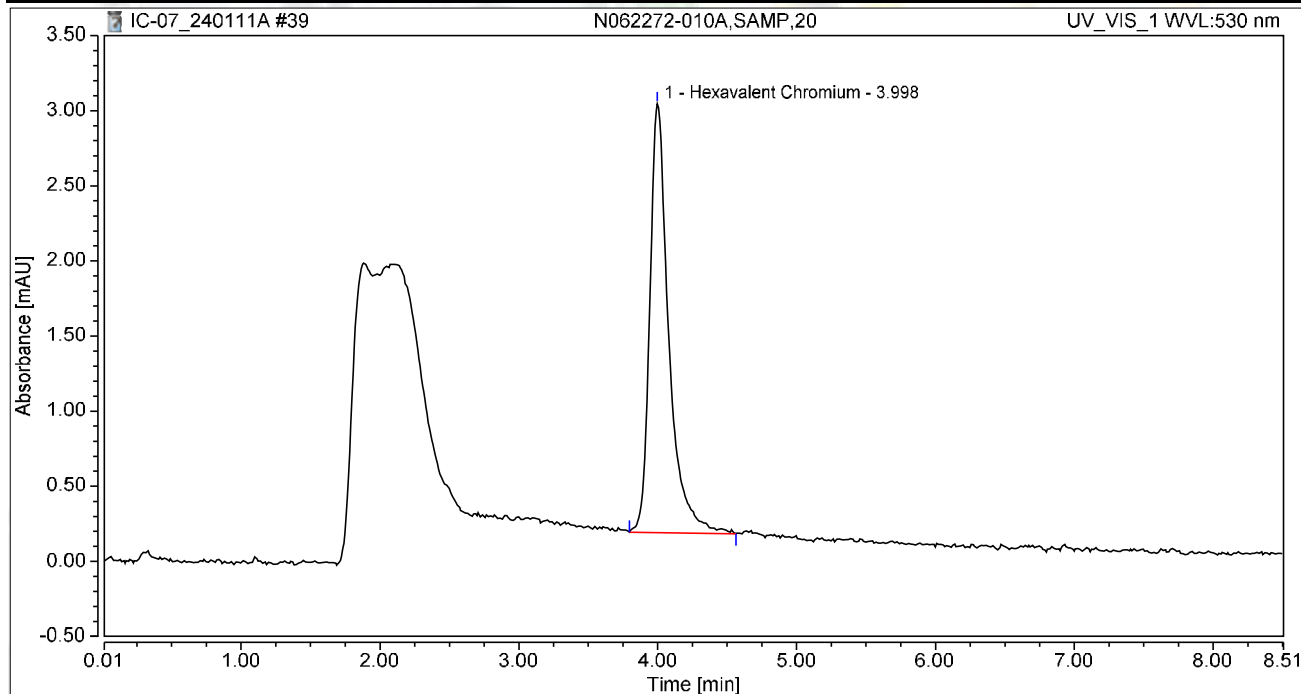
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.477	9.258	100.00	100.00	7.0987
Total:			1.477	9.258	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-010A,SAMP,20	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:17	Sample Weight:	1.0000

Chromatogram



Integration Results

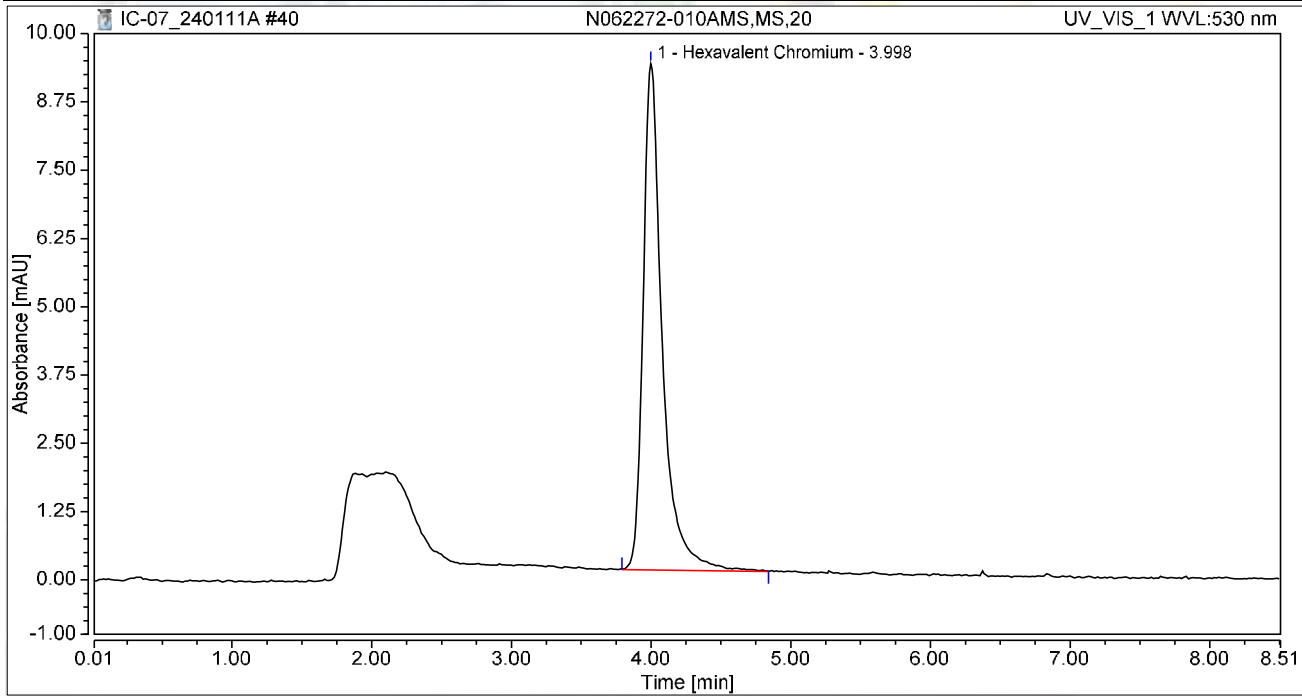
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.453	2.854	100.00	100.00	2.1754
Total:			0.453	2.854	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-010AMS,MS,20	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

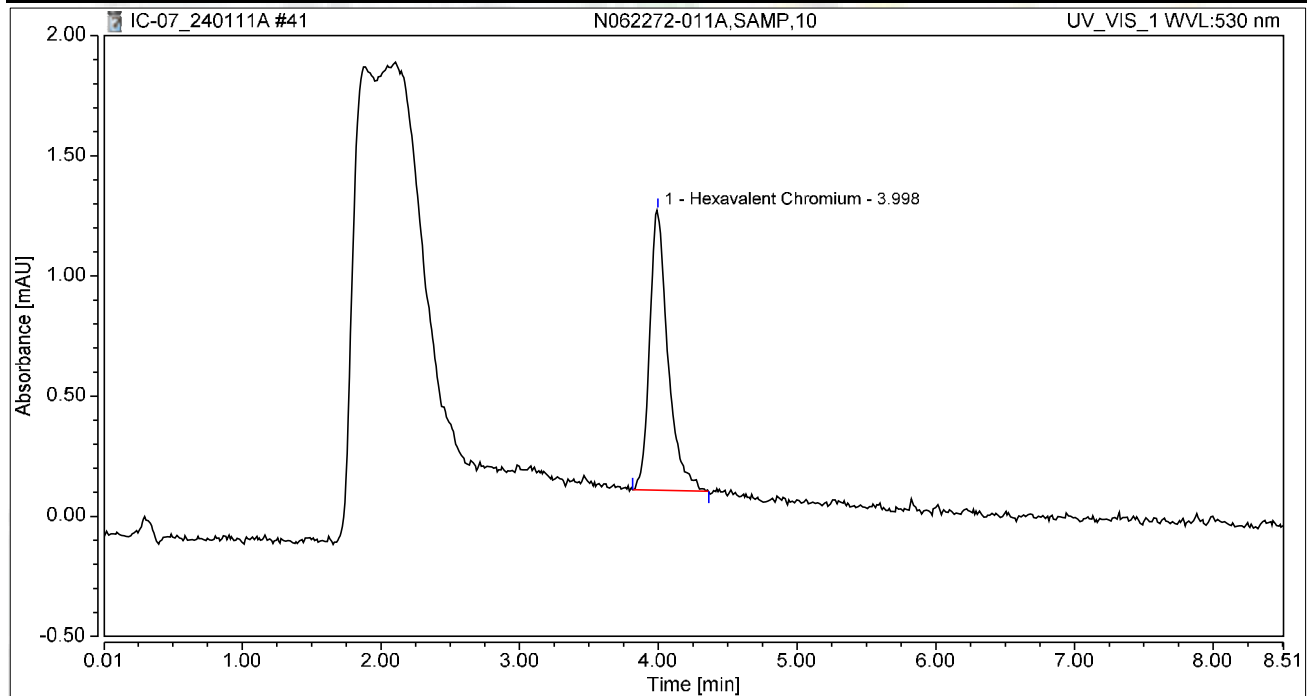
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.476	9.270	100.00	100.00	7.0924
Total:			1.476	9.270	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011A,SAMP,10	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:36	Sample Weight:	1.0000

Chromatogram



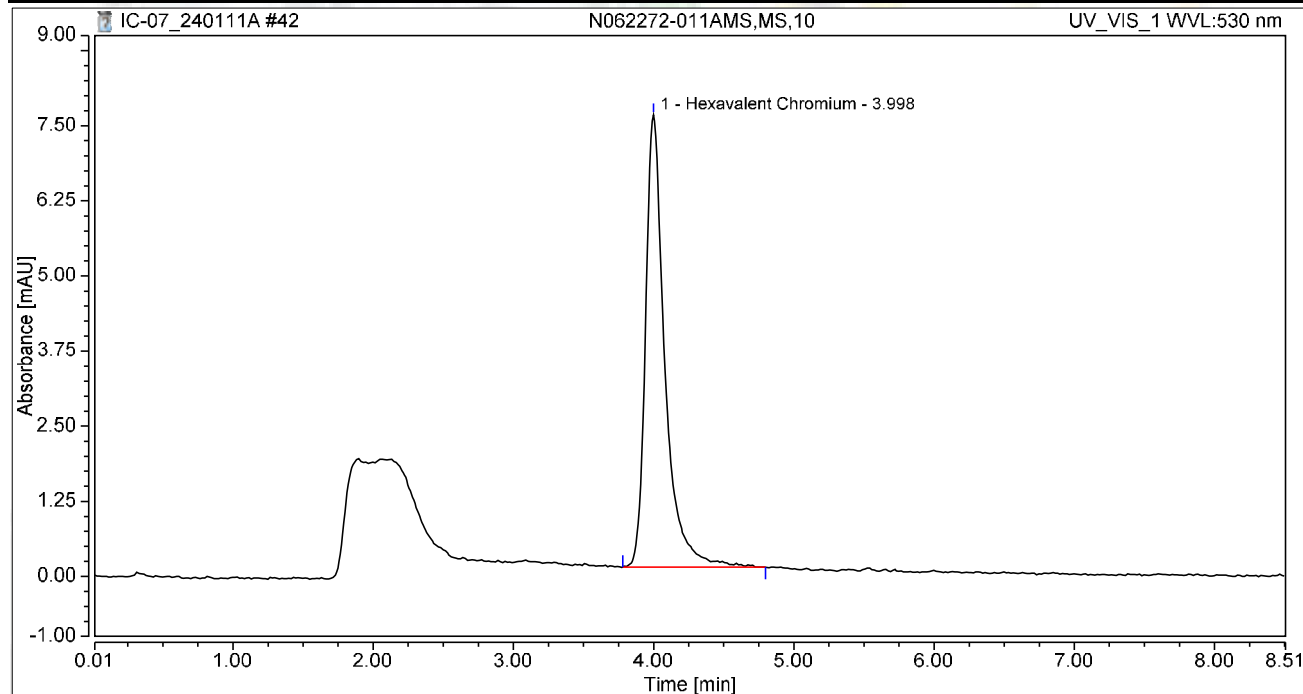
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.179	1.165	100.00	100.00	0.8606
Total:			0.179	1.165	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011AMS,MS,10	Run Time (min): 8.49
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 16:45	Sample Weight: 1.0000

Chromatogram



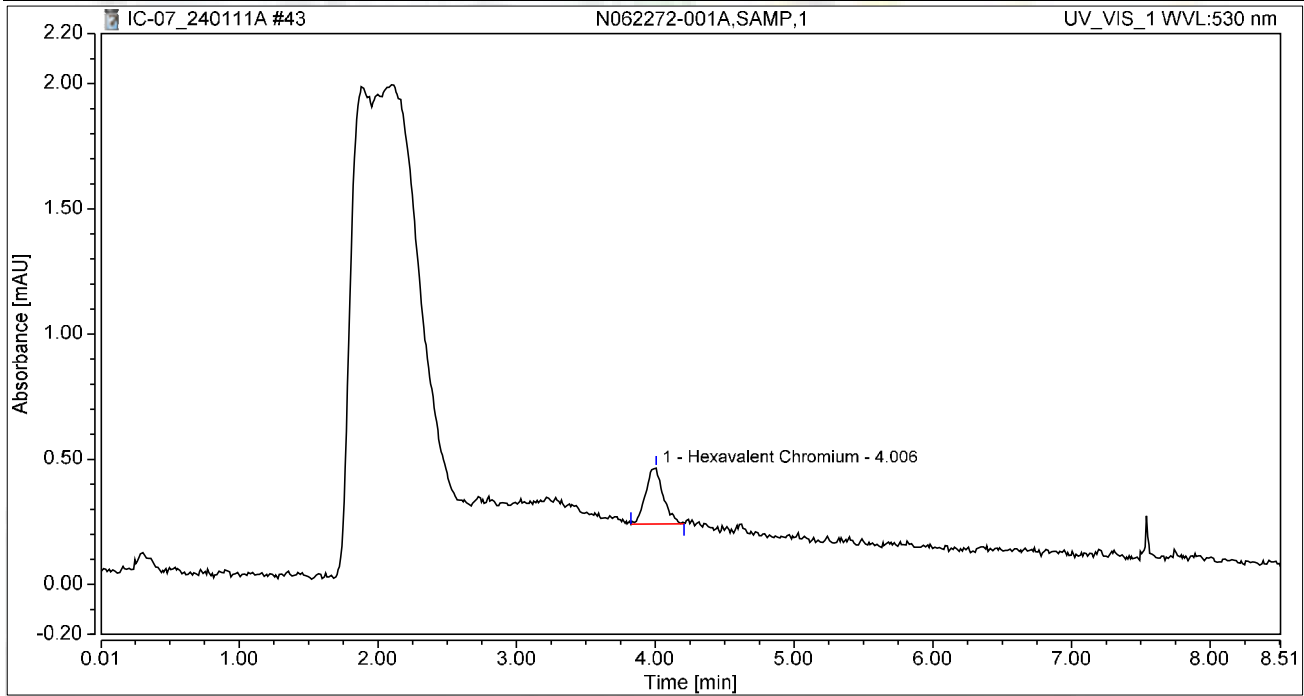
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.206	7.524	100.00	100.00	5.7972
Total:			1.206	7.524	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 16:54	Sample Weight:	1.0000

Chromatogram



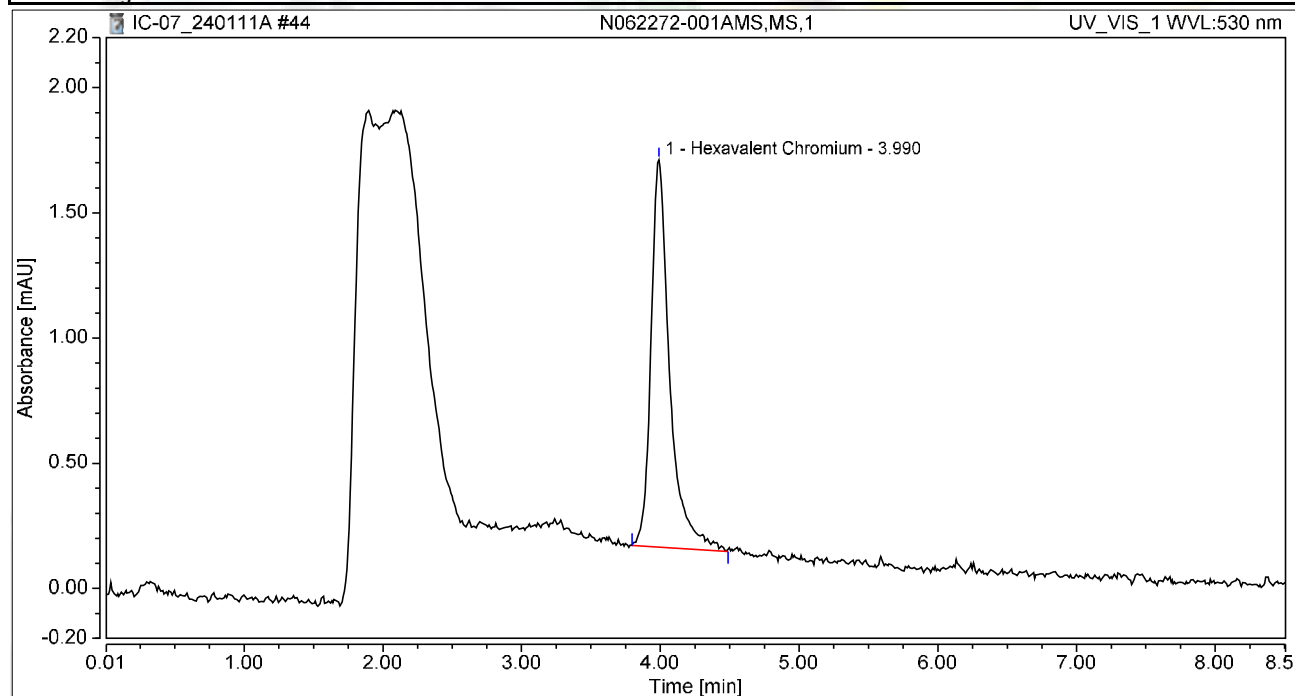
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.033	0.223	100.00	100.00	0.1580
Total:			0.033	0.223	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:04	Sample Weight: 1.0000

Chromatogram



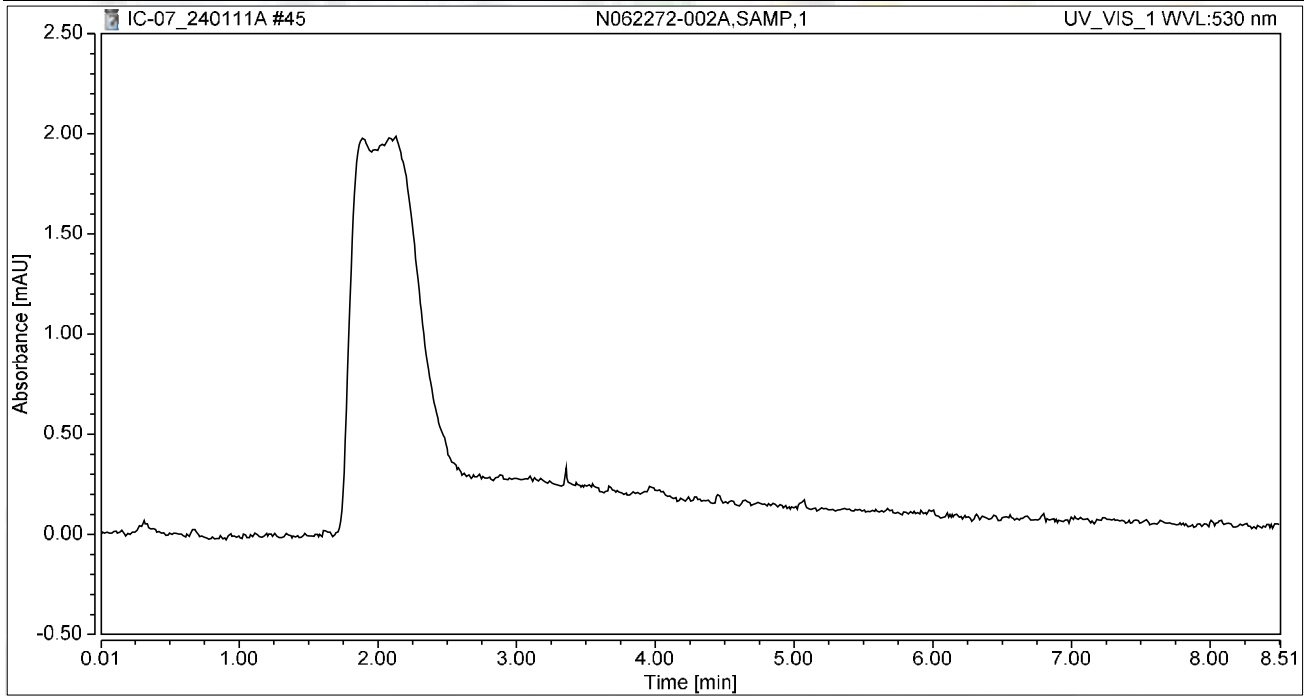
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.242	1.547	100.00	100.00	1.1625
Total:			0.242	1.547	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

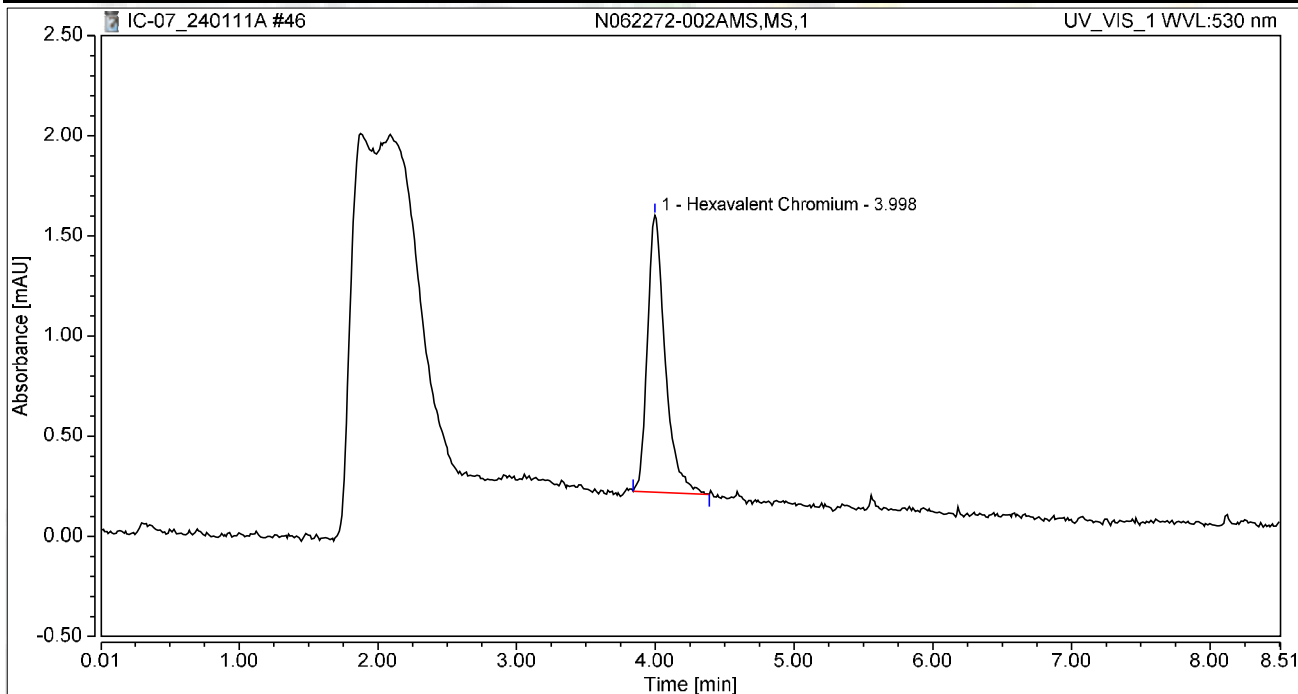
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:23	Sample Weight:	1.0000

Chromatogram



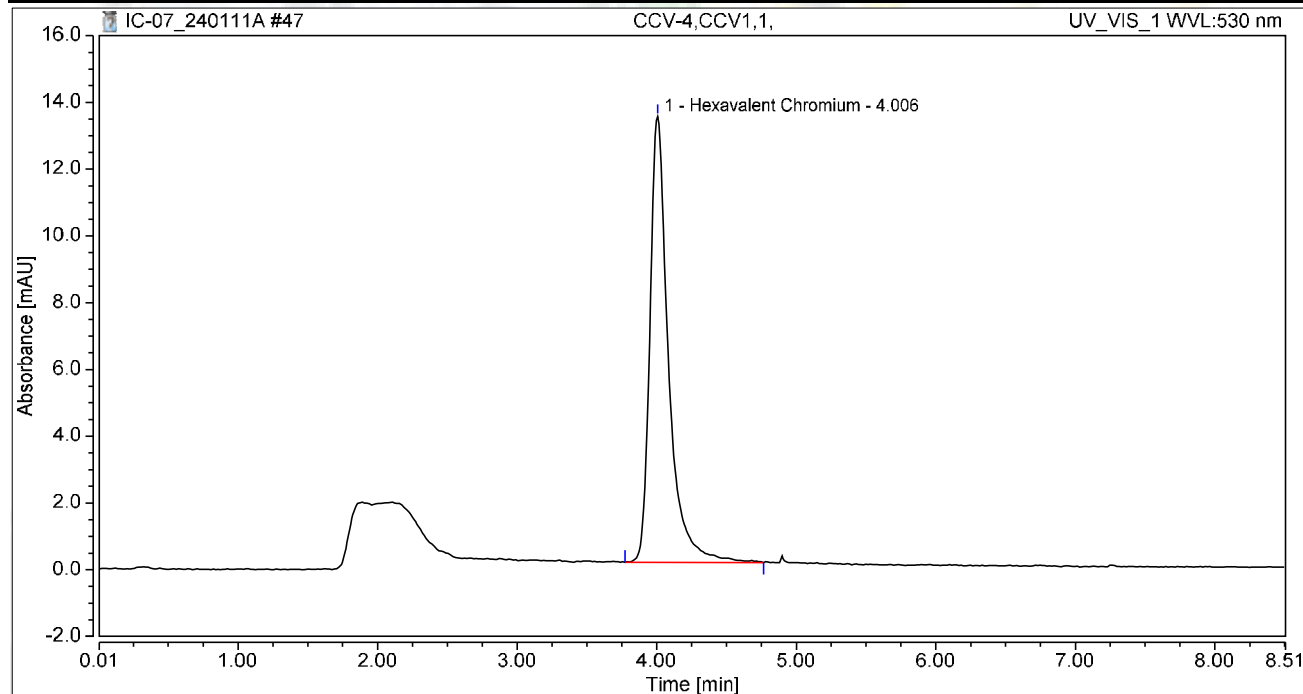
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.205	1.381	100.00	100.00	0.9842
Total:			0.205	1.381	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-4,CCV1,1,	Run Time (min): 8.50
Vial Number:	21	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:32	Sample Weight: 1.0000

Chromatogram



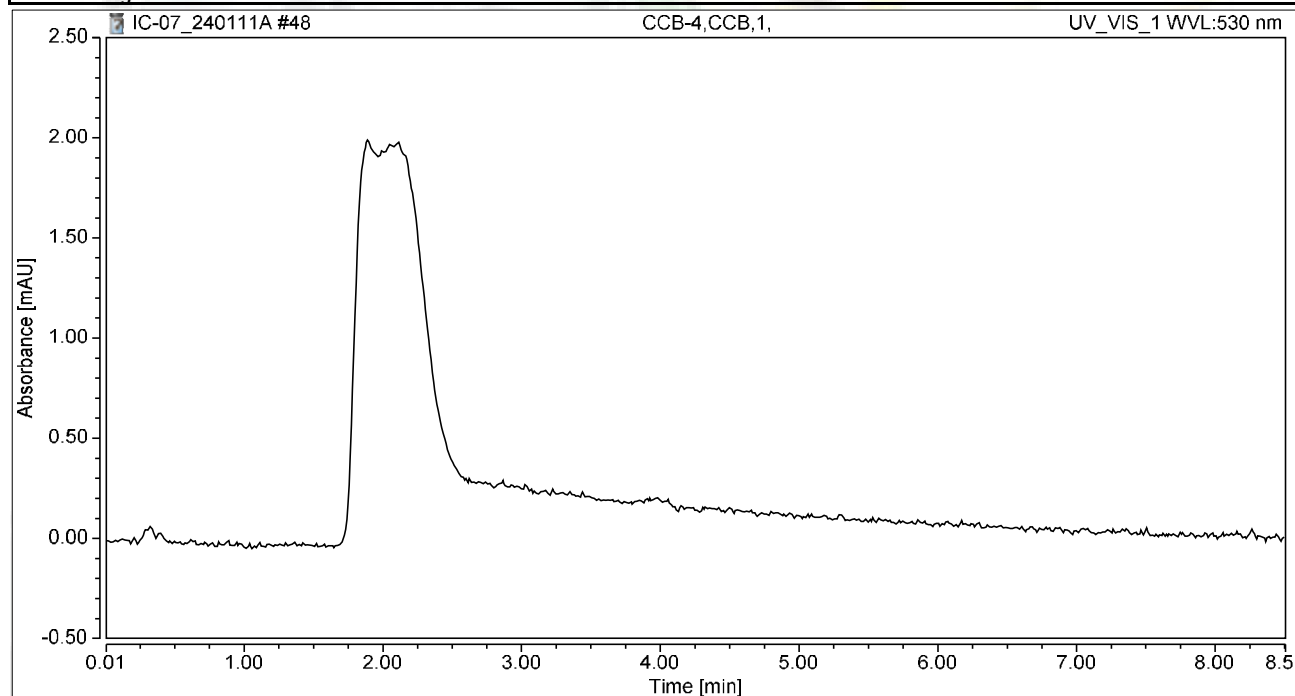
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.062	13.356	100.00	100.00	9.9119
Total:			2.062	13.356	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 17:42	Sample Weight:	1.0000

Chromatogram



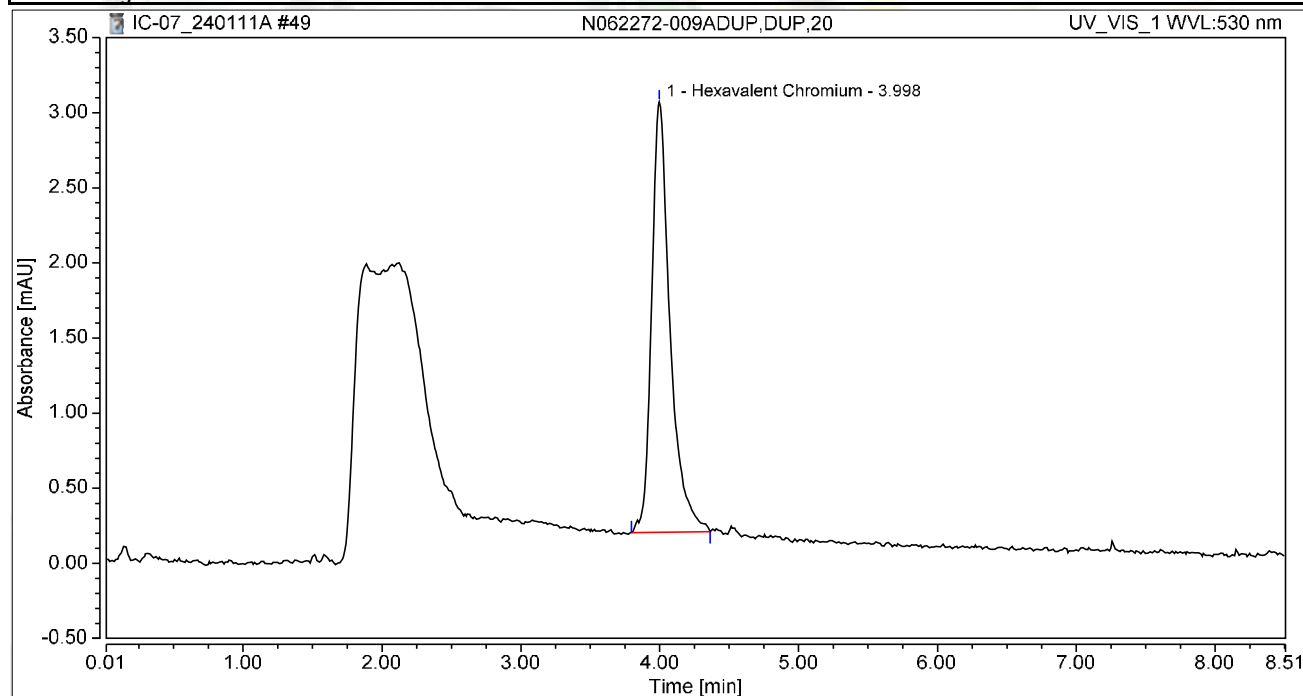
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-009ADUP,DUP,20	Run Time (min): 8.49
Vial Number:	23	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 17:51	Sample Weight: 1.0000

Chromatogram



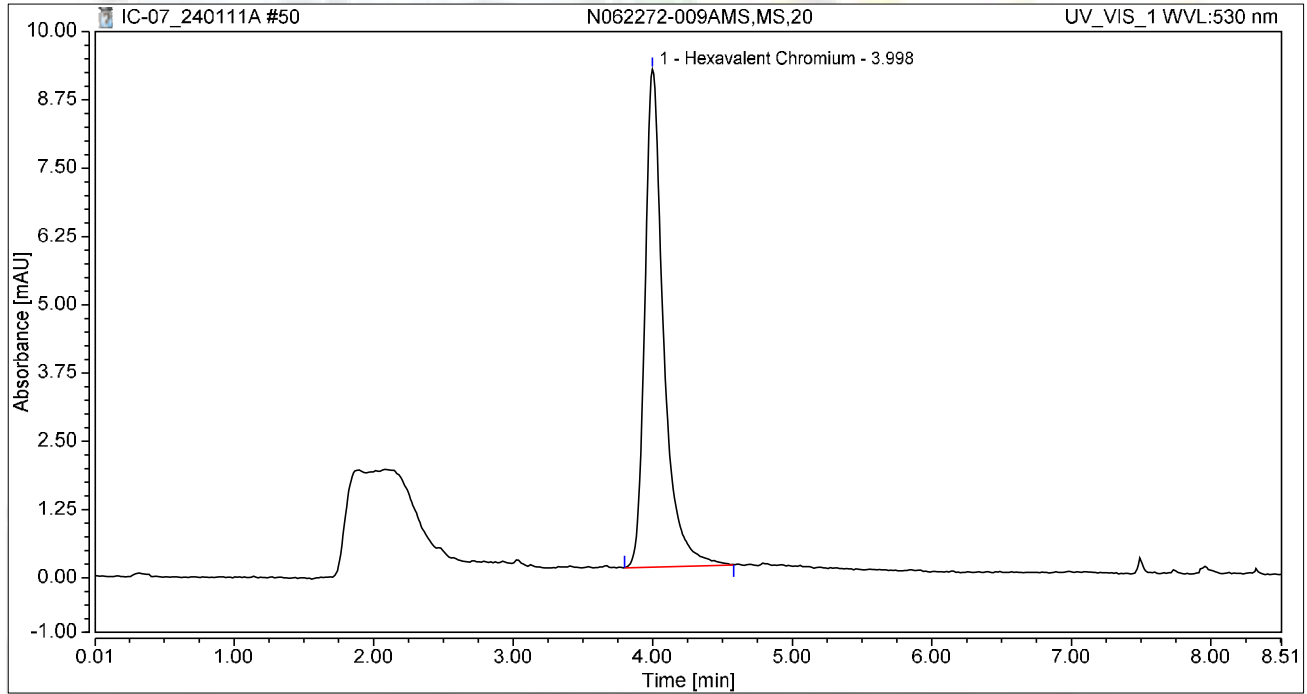
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.441	2.866	100.00	100.00	2.1205
Total:			0.441	2.866	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-009AMS,MS,20 MSD	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:01	Sample Weight:	1.0000

Chromatogram



Integration Results

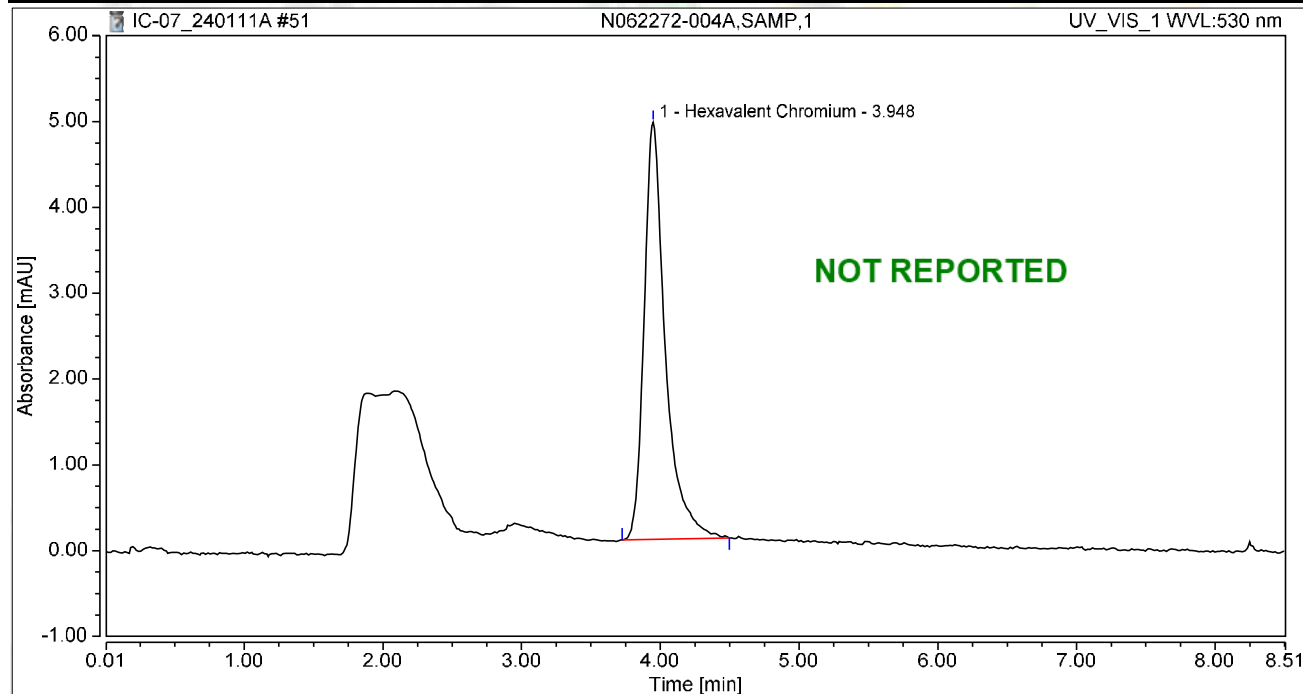
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.421	9.112	100.00	100.00	6.8296
Total:			1.421	9.112	100.00	100.00	

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for RBA

Chromatogram and Results

Injection Details		
Injection Name:	N062272-004A,SAMP,1	Run Time (min): 8.50
Vial Number:	25	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 18:10	Sample Weight: 1.0000

Chromatogram



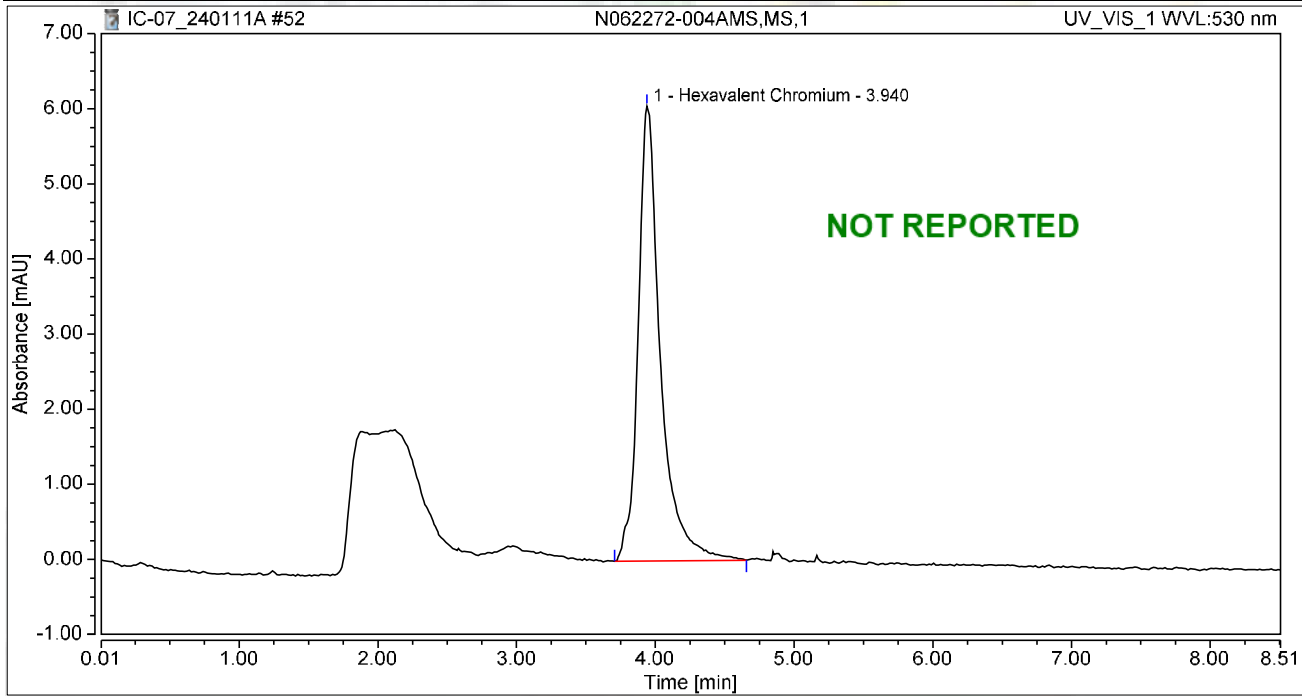
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	0.864	4.861	100.00	100.00	4.1504
Total:			0.864	4.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:20	Sample Weight:	1.0000

Chromatogram



Integration Results

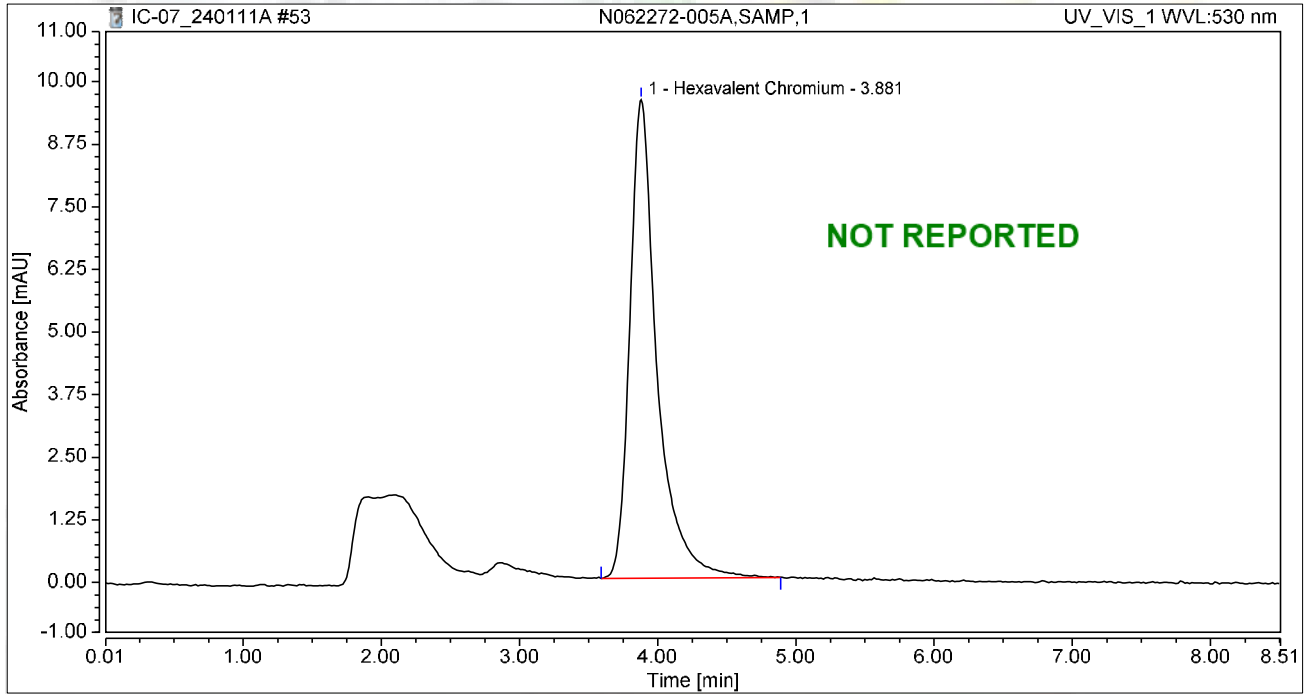
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.940	1.132	6.055	100.00	100.00	5.4396
Total:			1.132	6.055	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:29	Sample Weight:	1.0000

Chromatogram



Integration Results

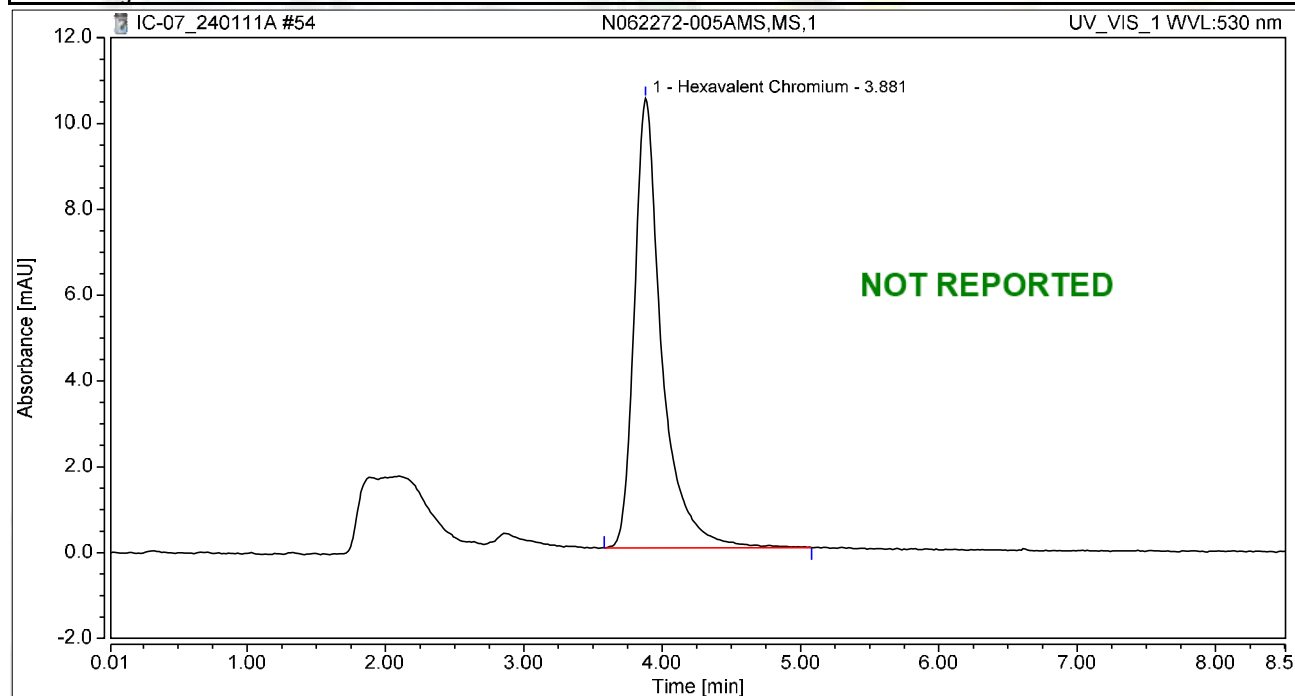
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	2.188	9.559	100.00	100.00	10.5152
Total:			2.188	9.559	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 18:39	Sample Weight:	1.0000

Chromatogram



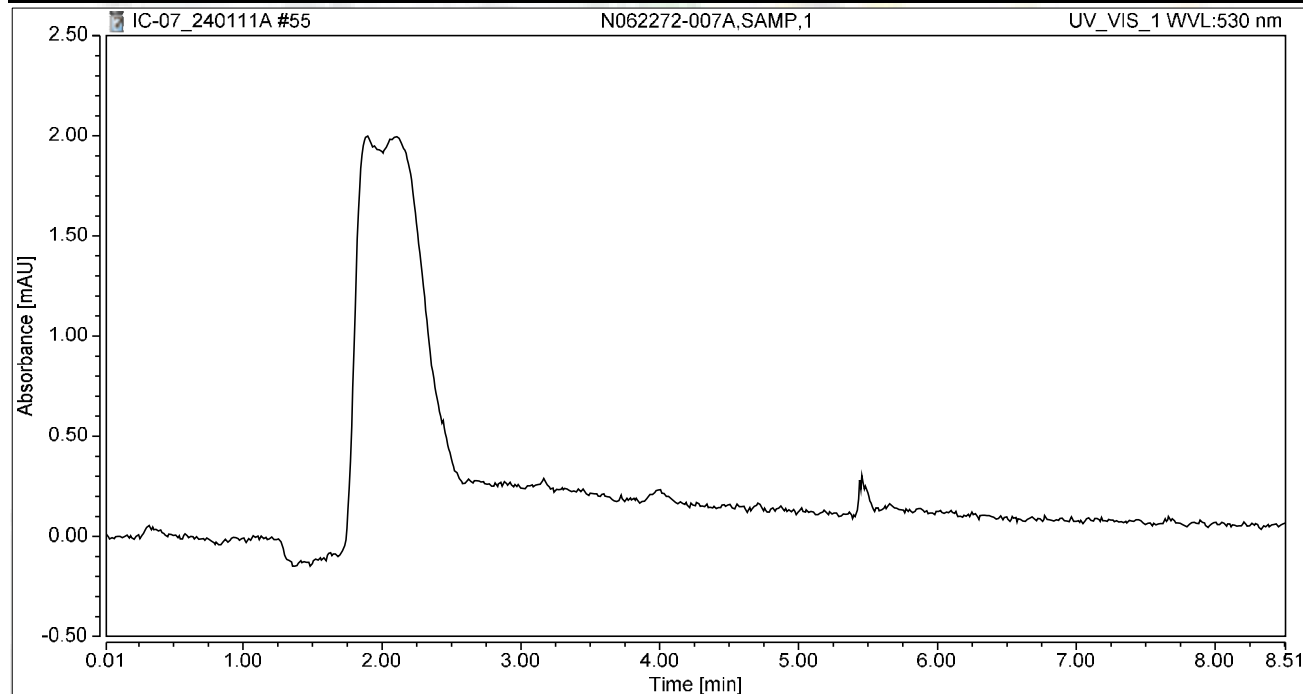
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	2.409	10.476	100.00	100.00	11.5757
Total:			2.409	10.476	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-007A,SAMP,1	Run Time (min): 8.49
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 18:48	Sample Weight: 1.0000

Chromatogram

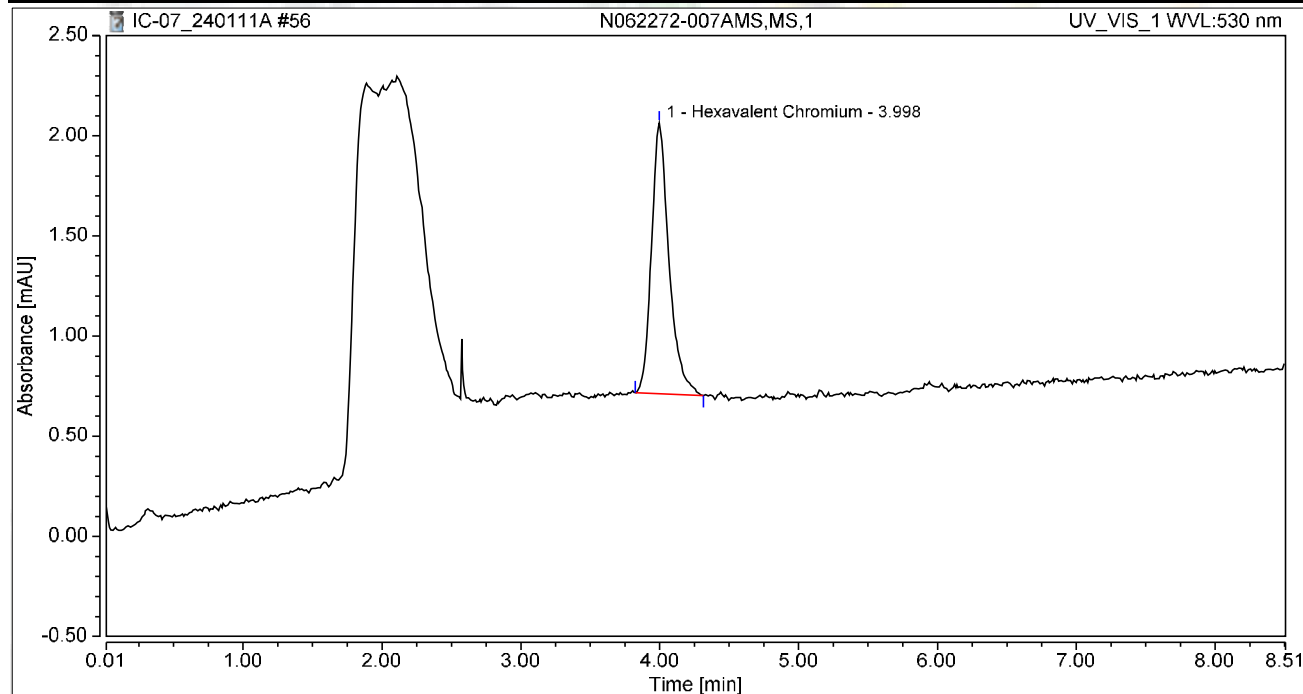


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-007AMS,MS,1	Run Time (min): 8.49
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:10	Sample Weight: 1.0000

Chromatogram

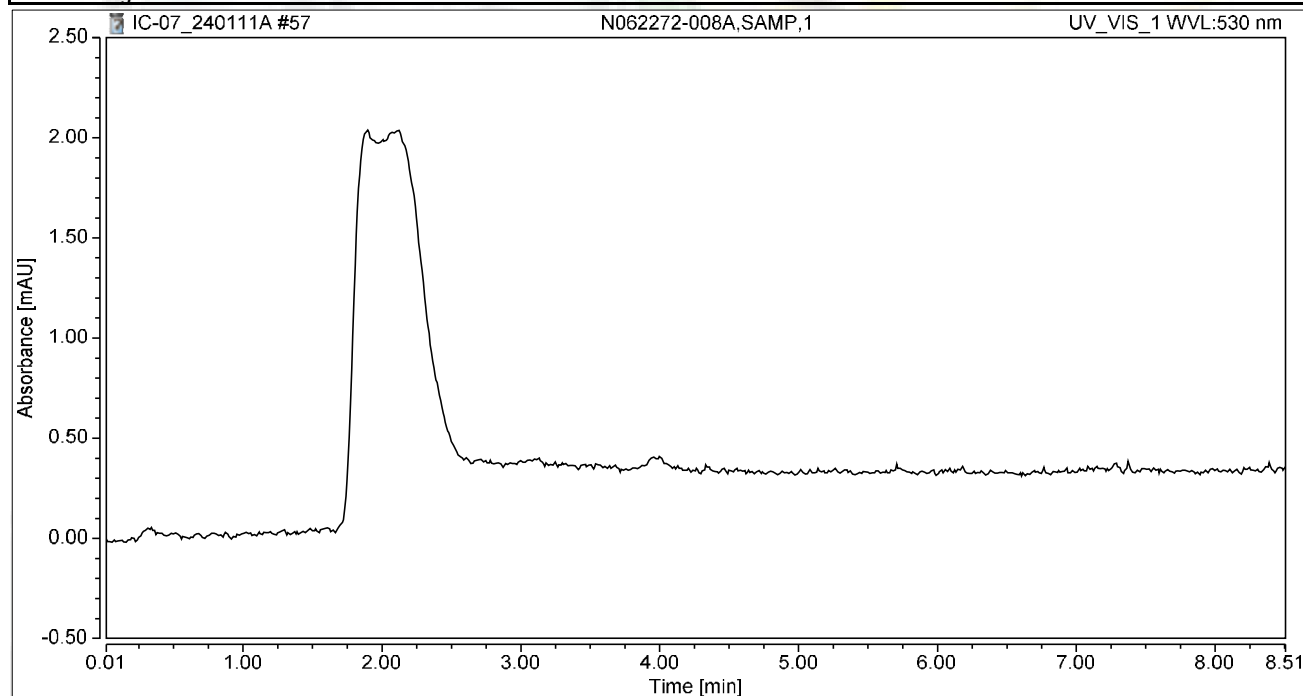


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.198	1.352	100.00	100.00	0.9504
Total:			0.198	1.352	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-008A,SAMP,1	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:21	Sample Weight: 1.0000

Chromatogram



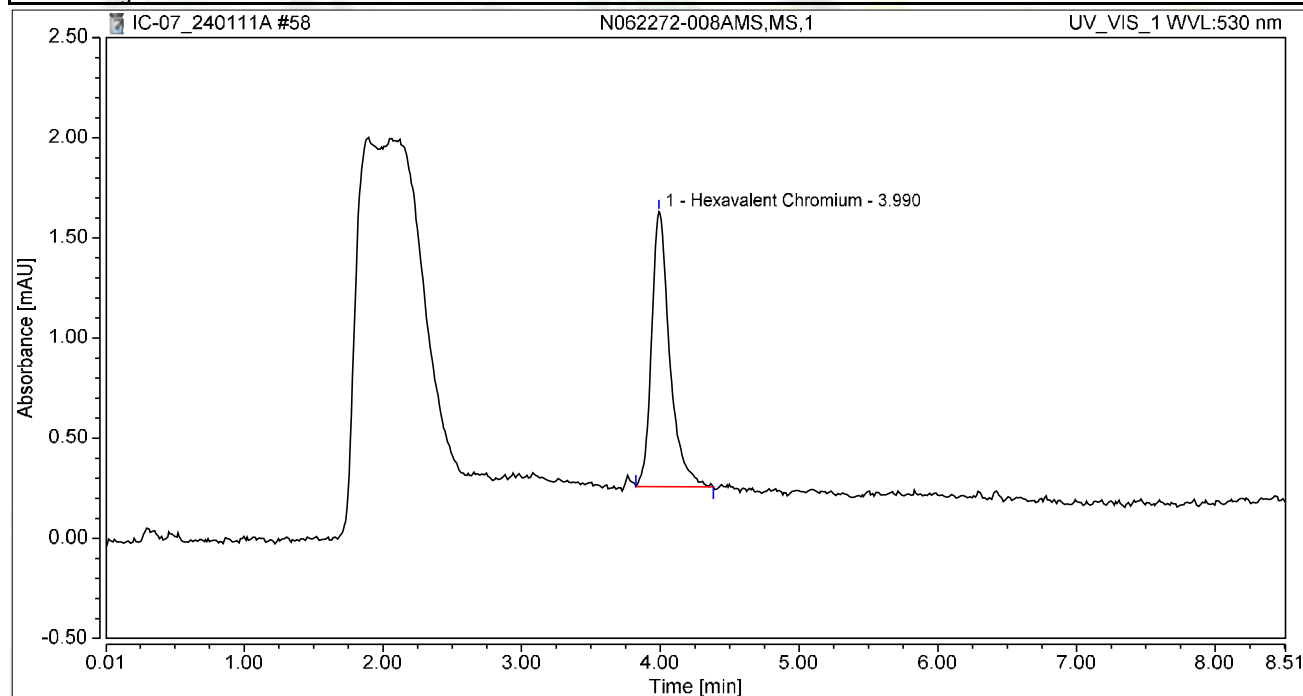
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 19:31	Sample Weight:	1.0000

Chromatogram



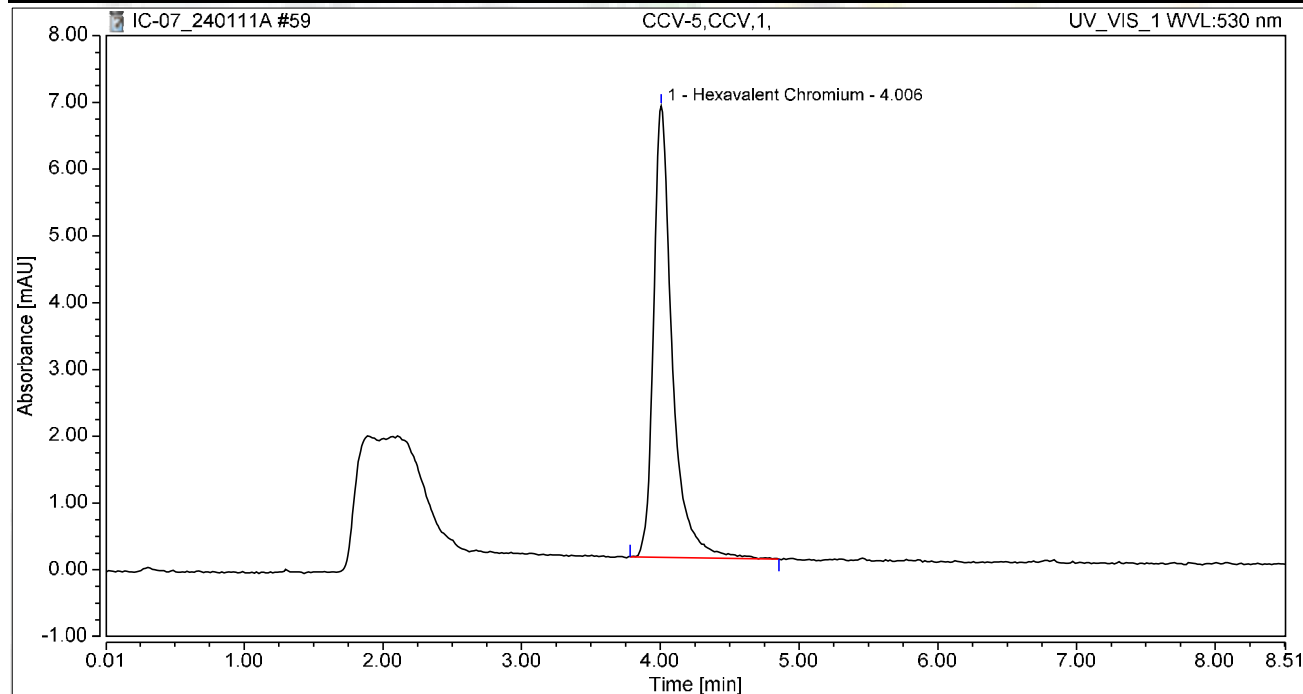
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.209	1.373	100.00	100.00	1.0024
Total:			0.209	1.373	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-5,CCV,1,	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:40	Sample Weight: 1.0000

Chromatogram



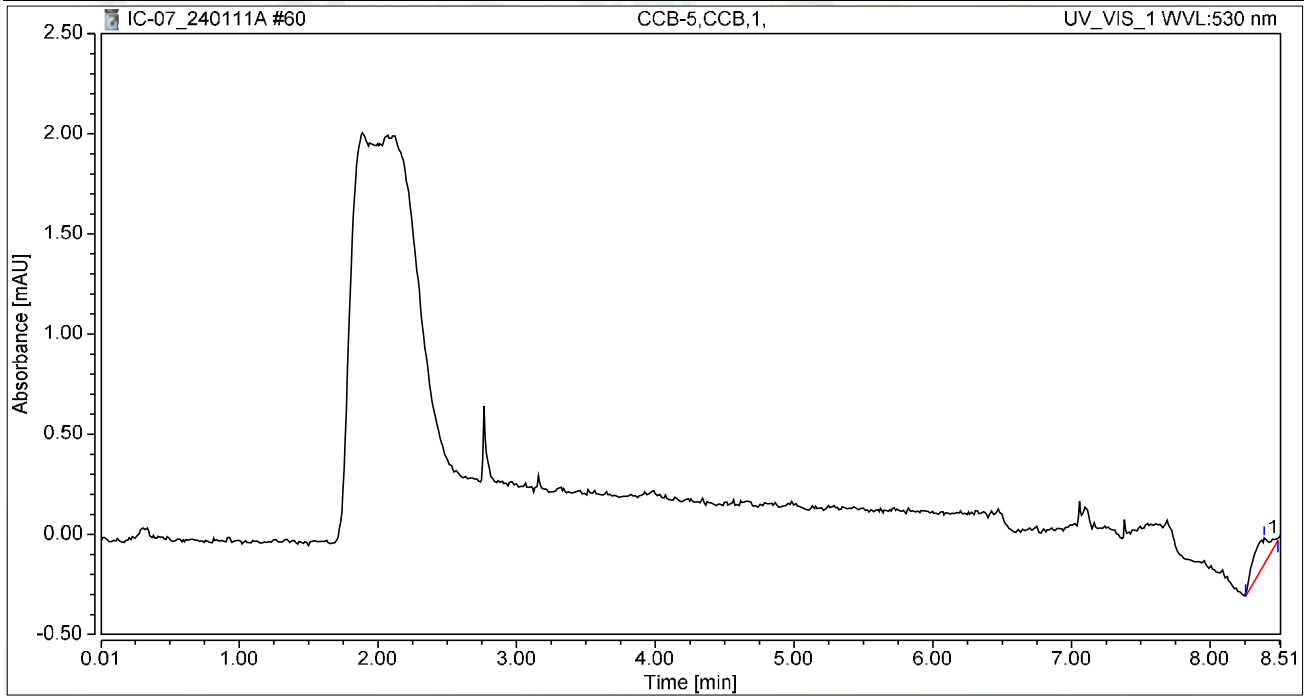
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.057	6.760	100.00	100.00	5.0814
Total:			1.057	6.760	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 19:50	Sample Weight:	1.0000

Chromatogram



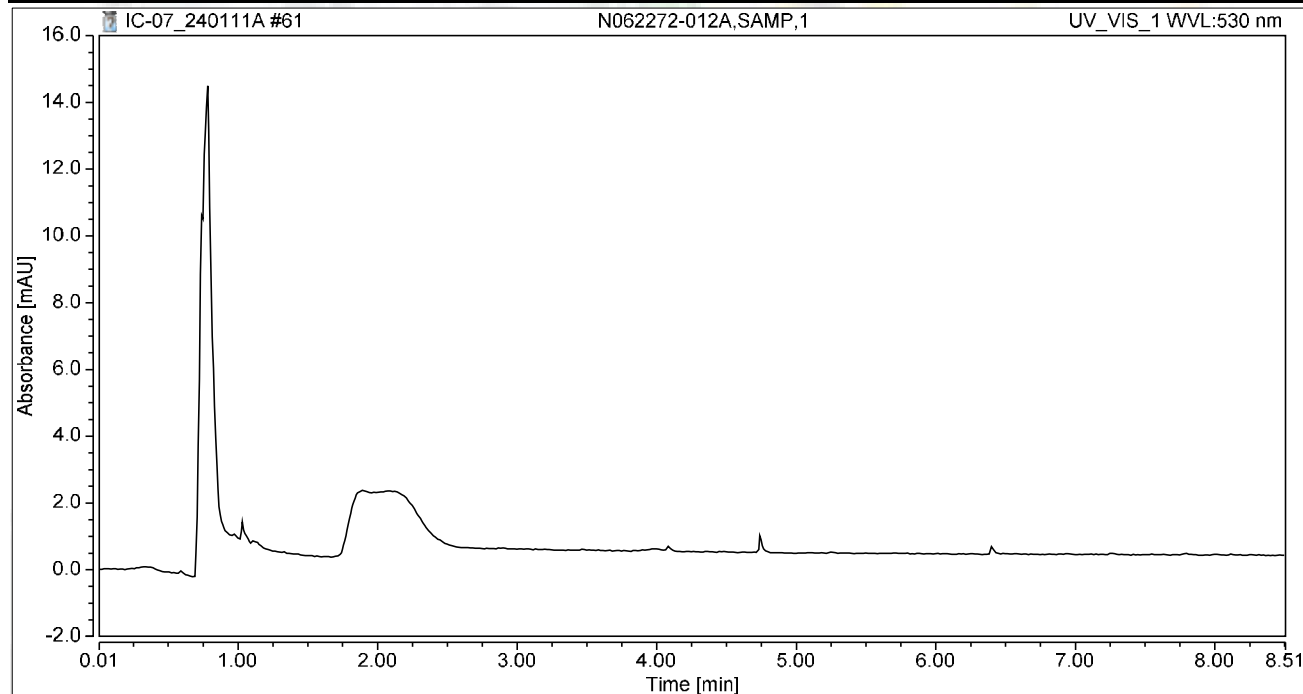
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		8.390	0.021	0.131	100.00	100.00	n.a.
Total:			0.021	0.131	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-012A,SAMP,1	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 19:59	Sample Weight: 1.0000

Chromatogram



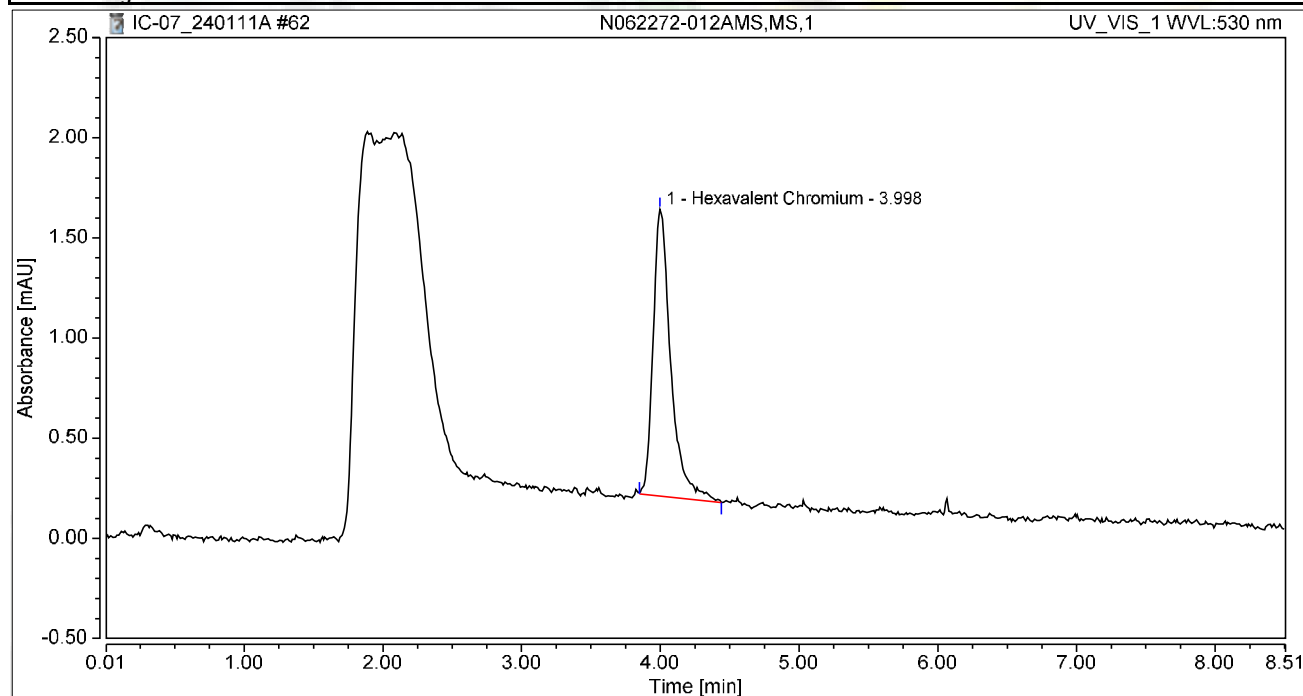
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:09	Sample Weight:	1.0000

Chromatogram



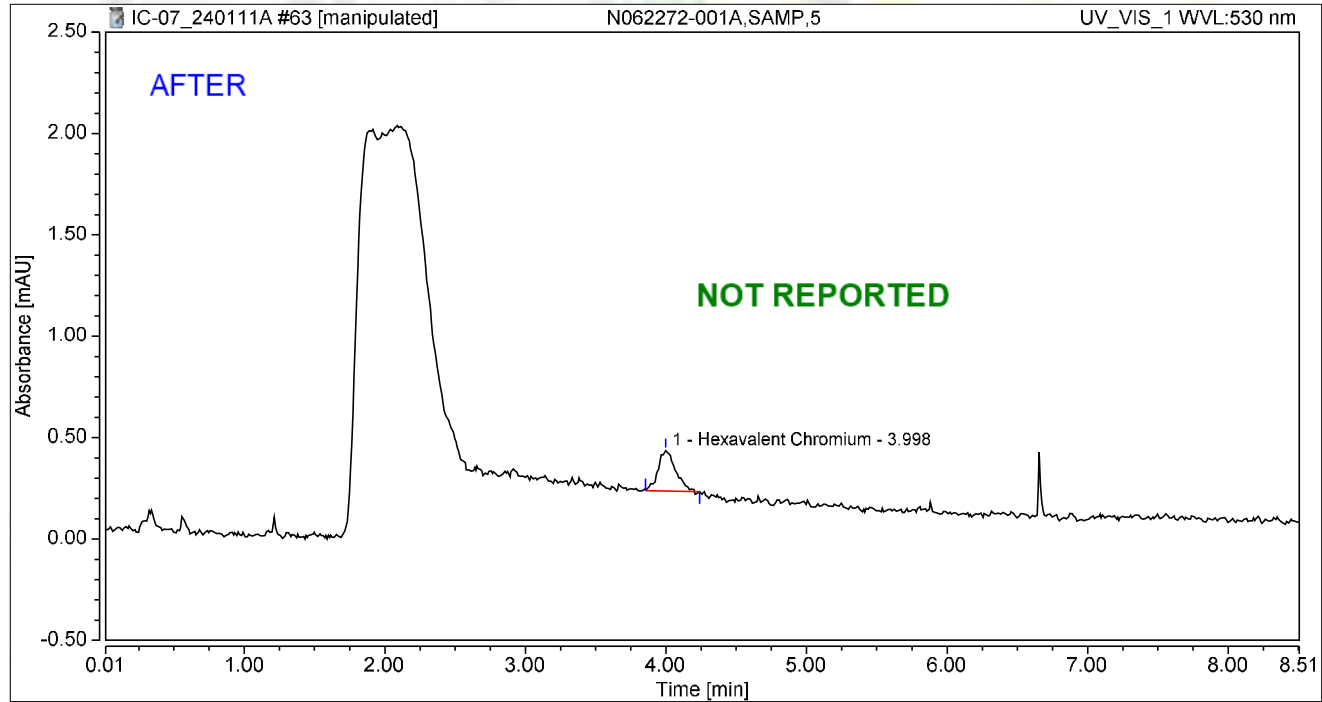
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.212	1.431	100.00	100.00	1.0185
Total:			0.212	1.431	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001A,SAMP,5	Run Time (min): 8.49
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:18	Sample Weight: 1.0000

Chromatogram



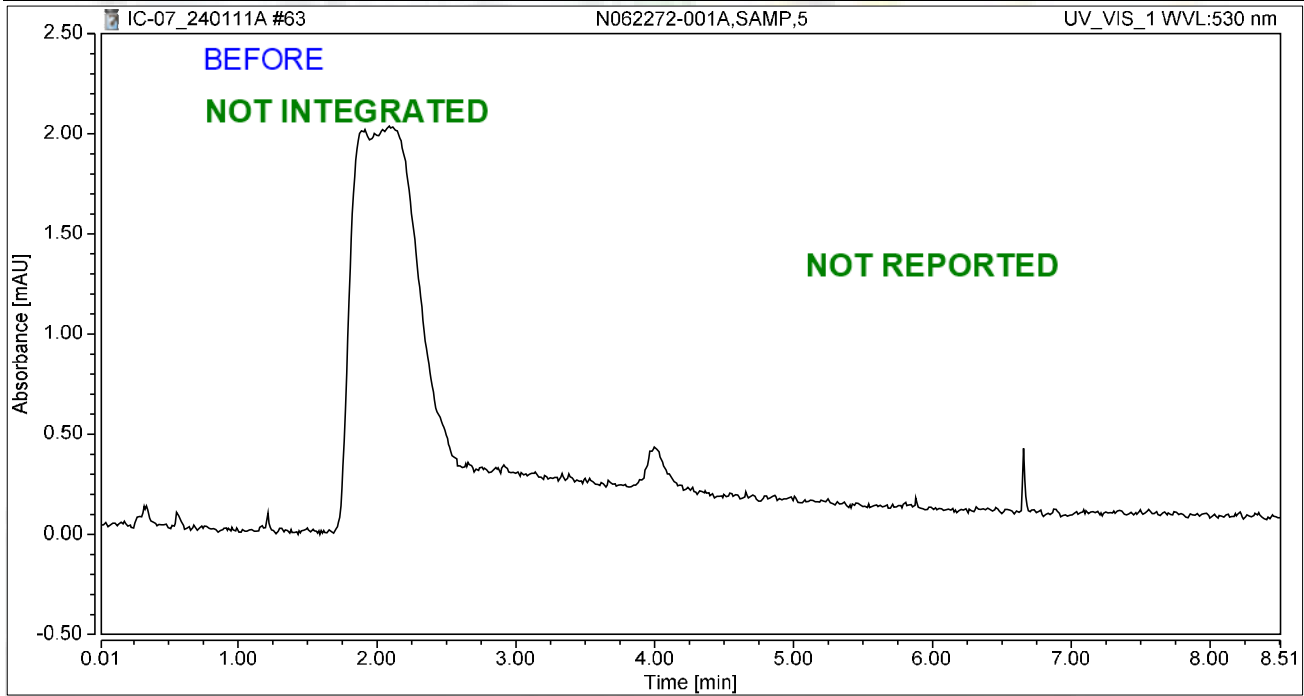
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.029	0.199	100.00	100.00	0.1387
Total:			0.029	0.199	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:18	Sample Weight:	1.0000

Chromatogram



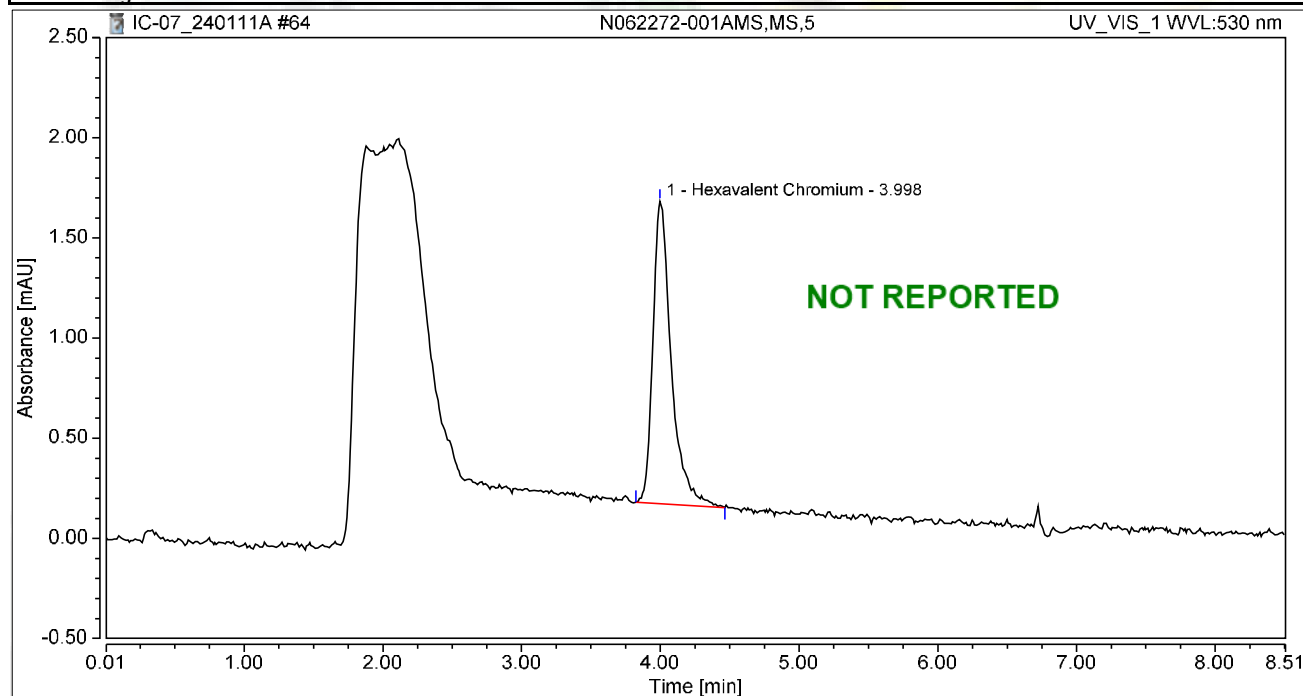
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:28	Sample Weight: 1.0000

Chromatogram



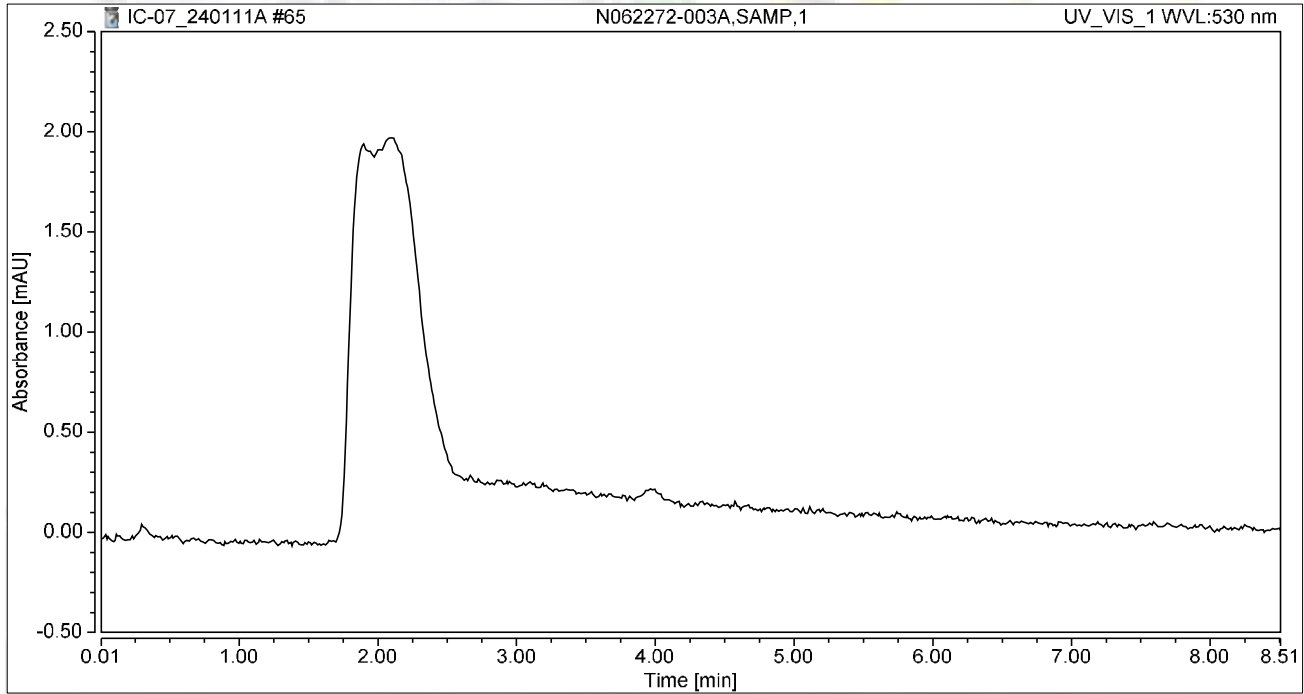
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.232	1.511	100.00	100.00	1.1146
Total:			0.232	1.511	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

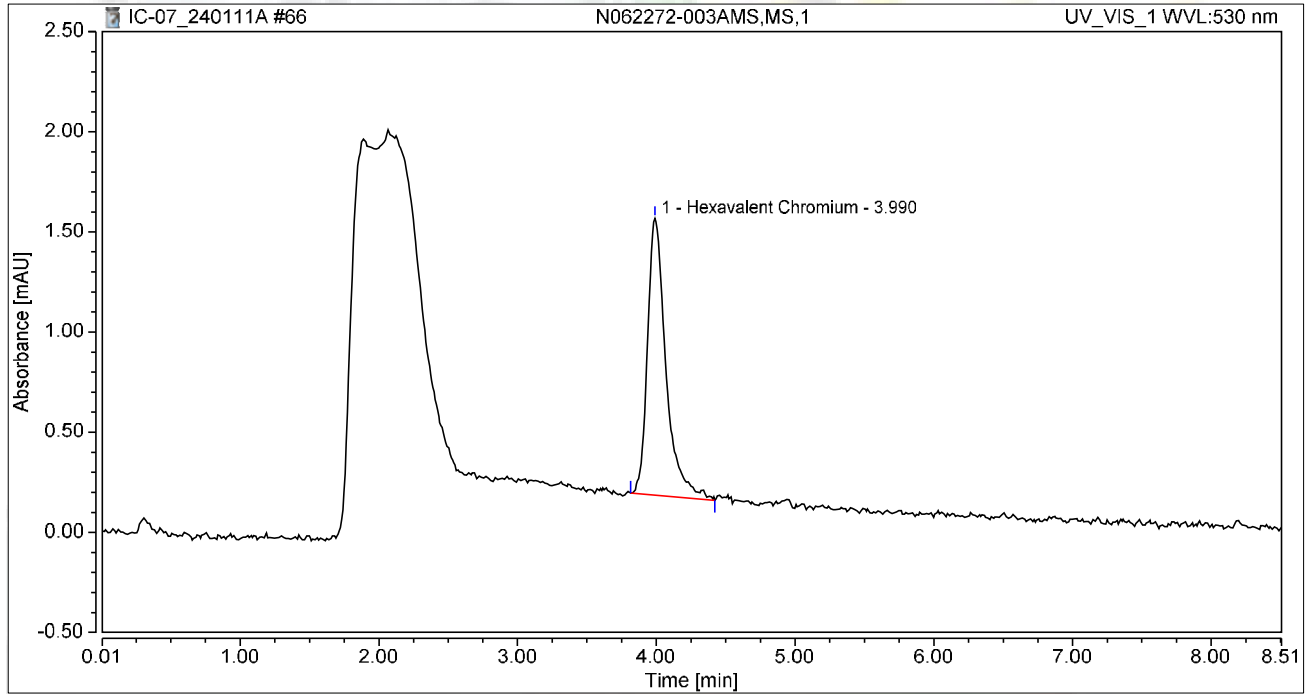
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 20:47	Sample Weight:	1.0000

Chromatogram



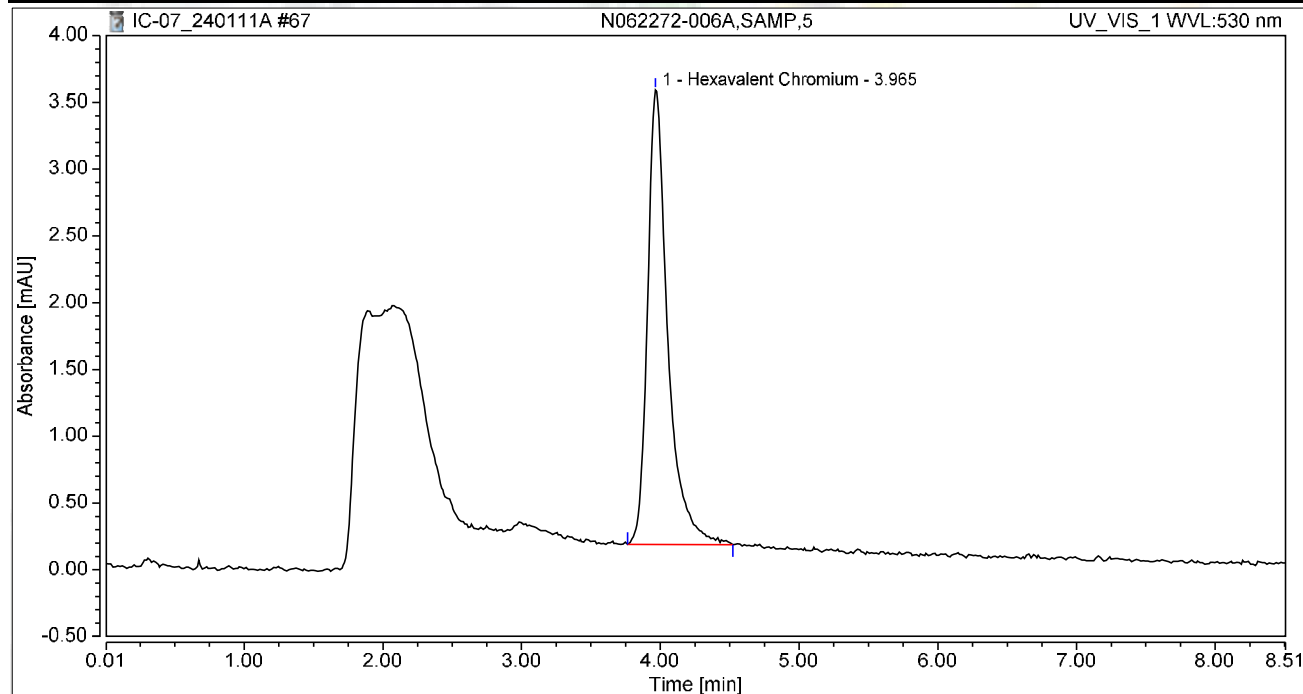
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.214	1.383	100.00	100.00	1.0262
Total:			0.214	1.383	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-006A,SAMP,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 20:56	Sample Weight: 1.0000

Chromatogram

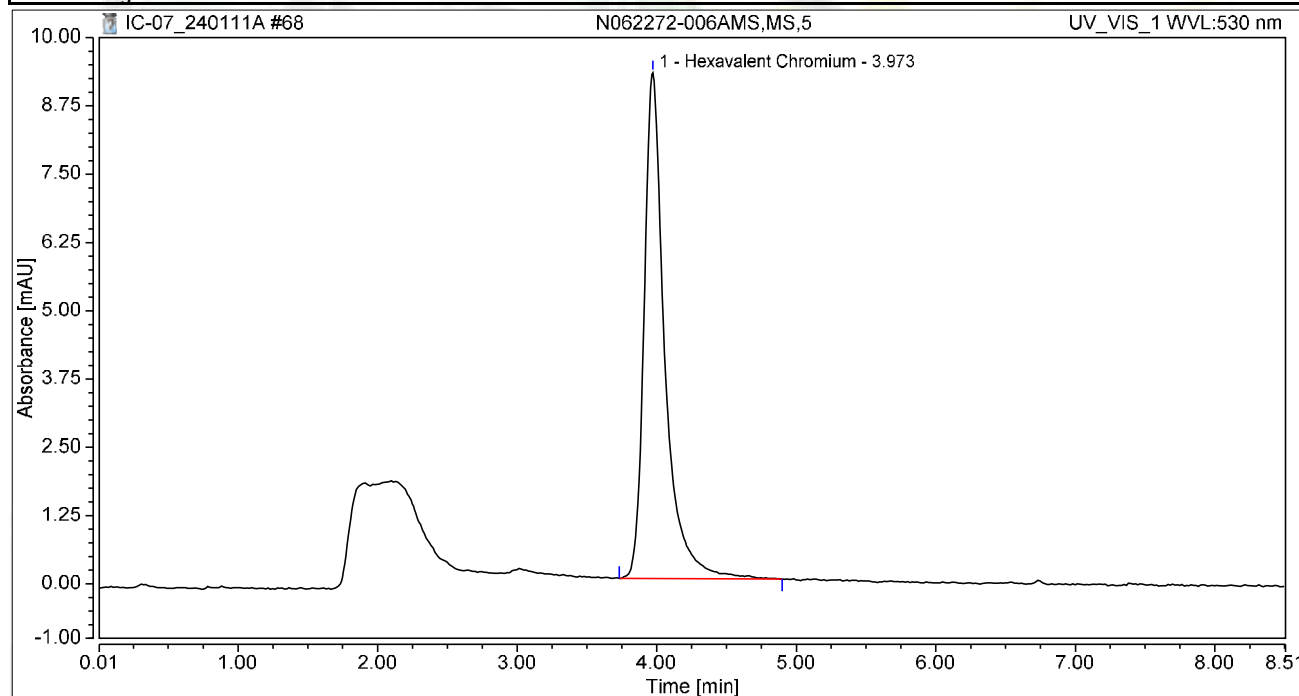


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.578	3.402	100.00	100.00	2.7754
Total:			0.578	3.402	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-006AMS,MS,5	Run Time (min): 8.50
Vial Number:	13	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 21:05	Sample Weight: 1.0000

Chromatogram

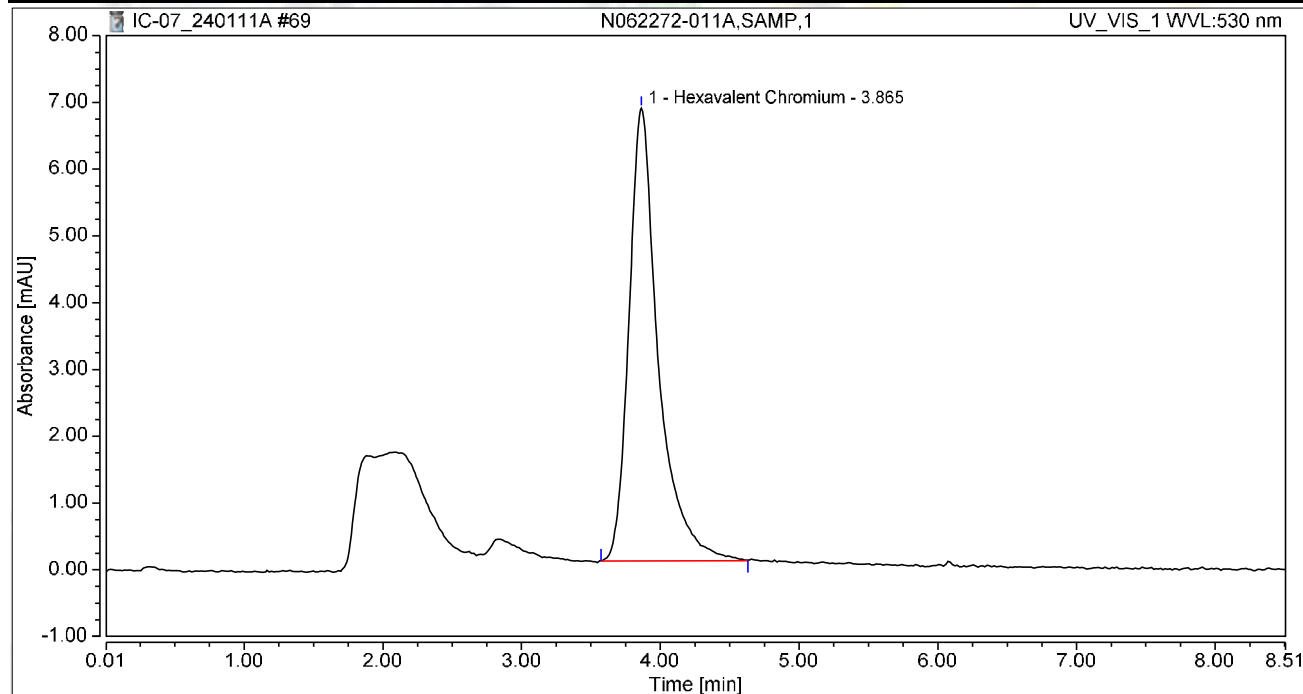


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.594	9.261	100.00	100.00	7.6585
Total:			1.594	9.261	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011A,SAMP,1	Run Time (min): 8.50
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 21:15	Sample Weight: 1.0000

Chromatogram



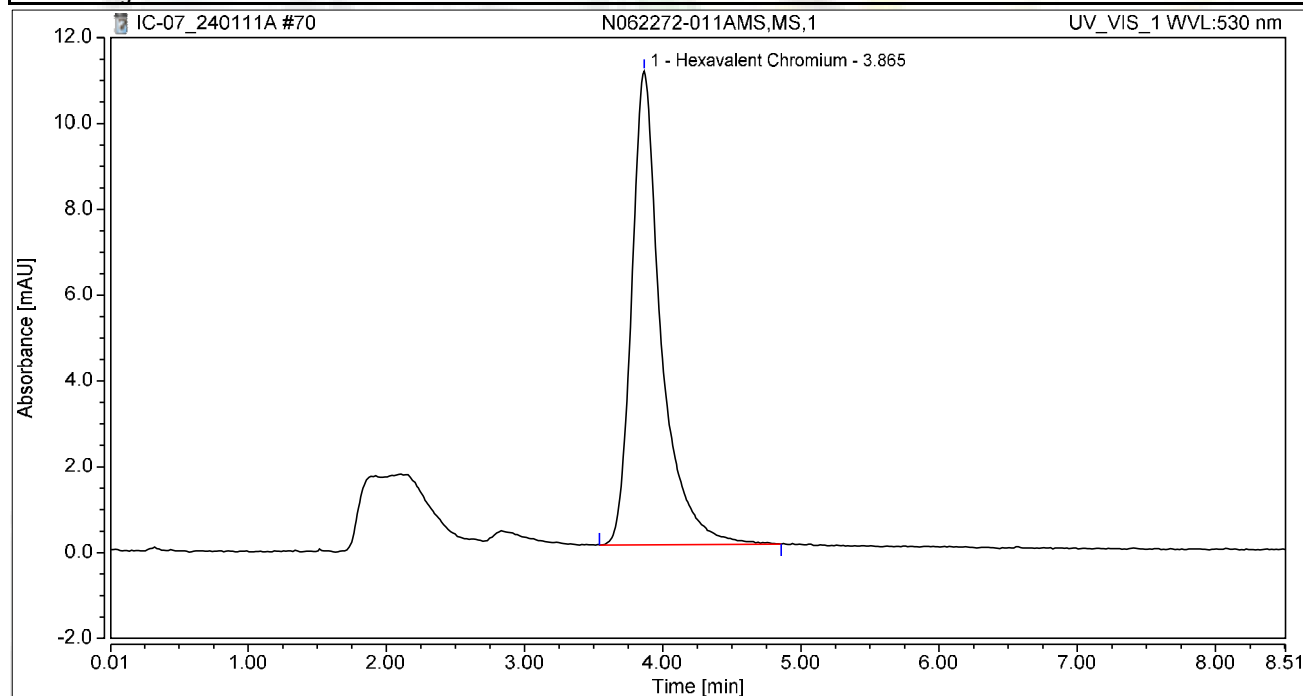
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	1.662	6.779	100.00	100.00	7.9874
Total:			1.662	6.779	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:24	Sample Weight:	1.0000

Chromatogram



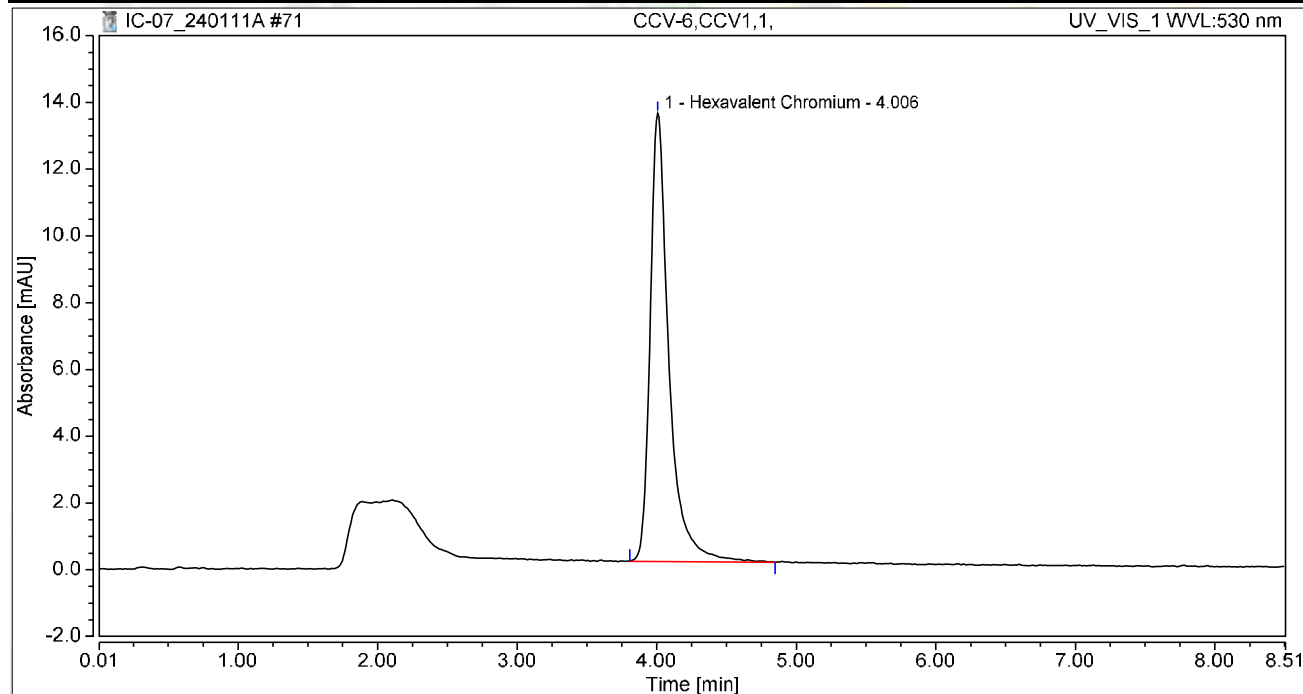
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	2.724	11.036	100.00	100.00	13.0912
Total:			2.724	11.036	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-6,CCV1,1,	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 21:34	Sample Weight: 1.0000

Chromatogram



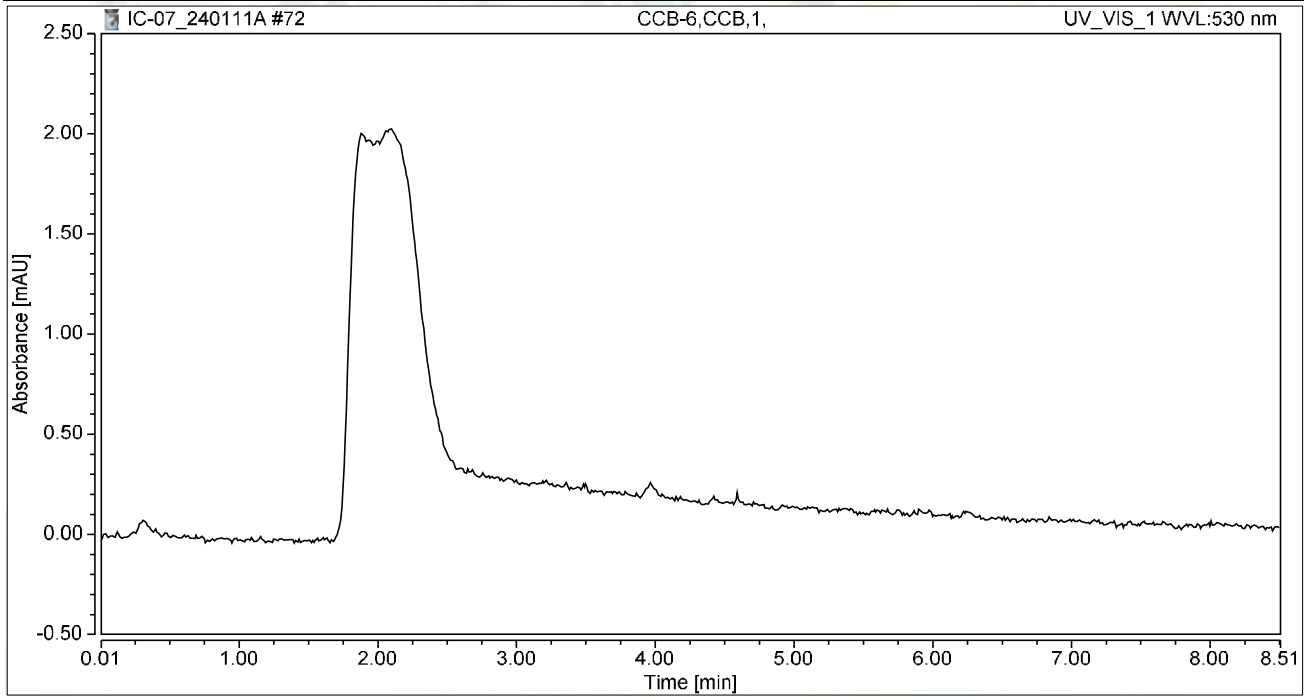
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.093	13.419	100.00	100.00	10.0609
Total:			2.093	13.419	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:43	Sample Weight:	1.0000

Chromatogram



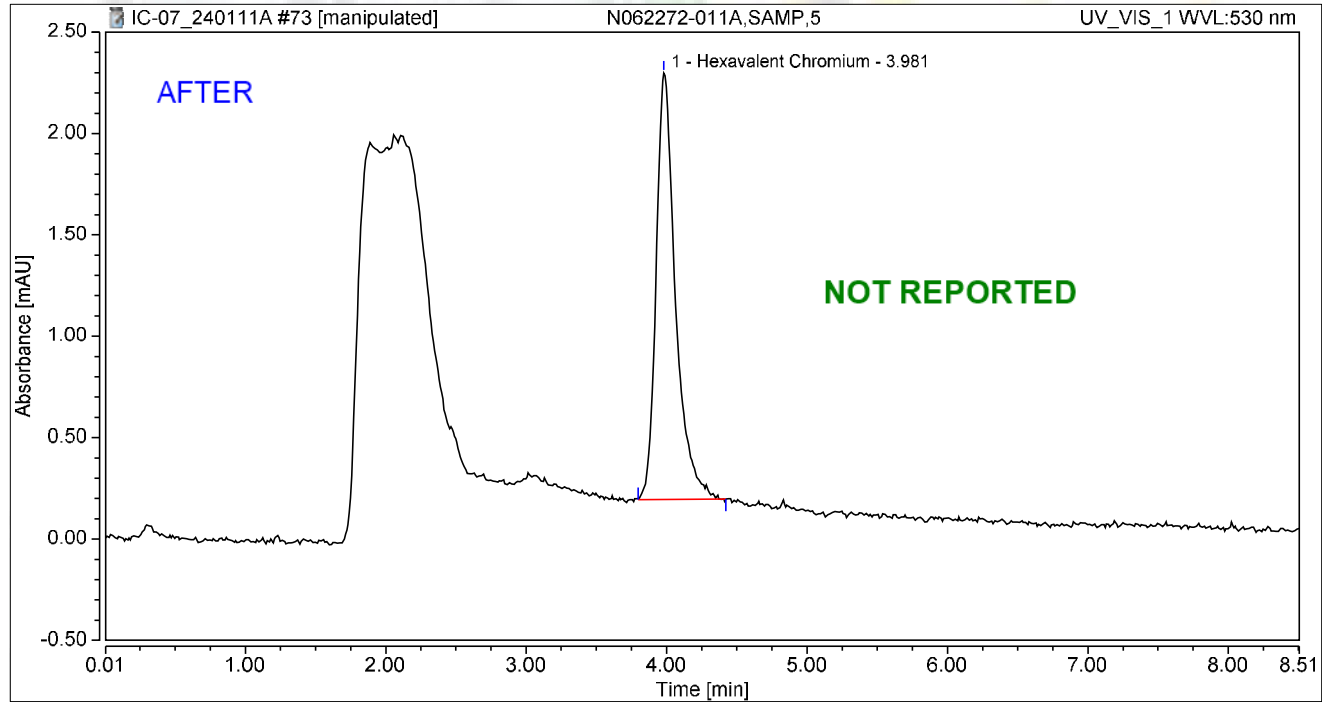
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-011A,SAMP,5	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Jan/24 21:53	Sample Weight: 1.0000

Chromatogram



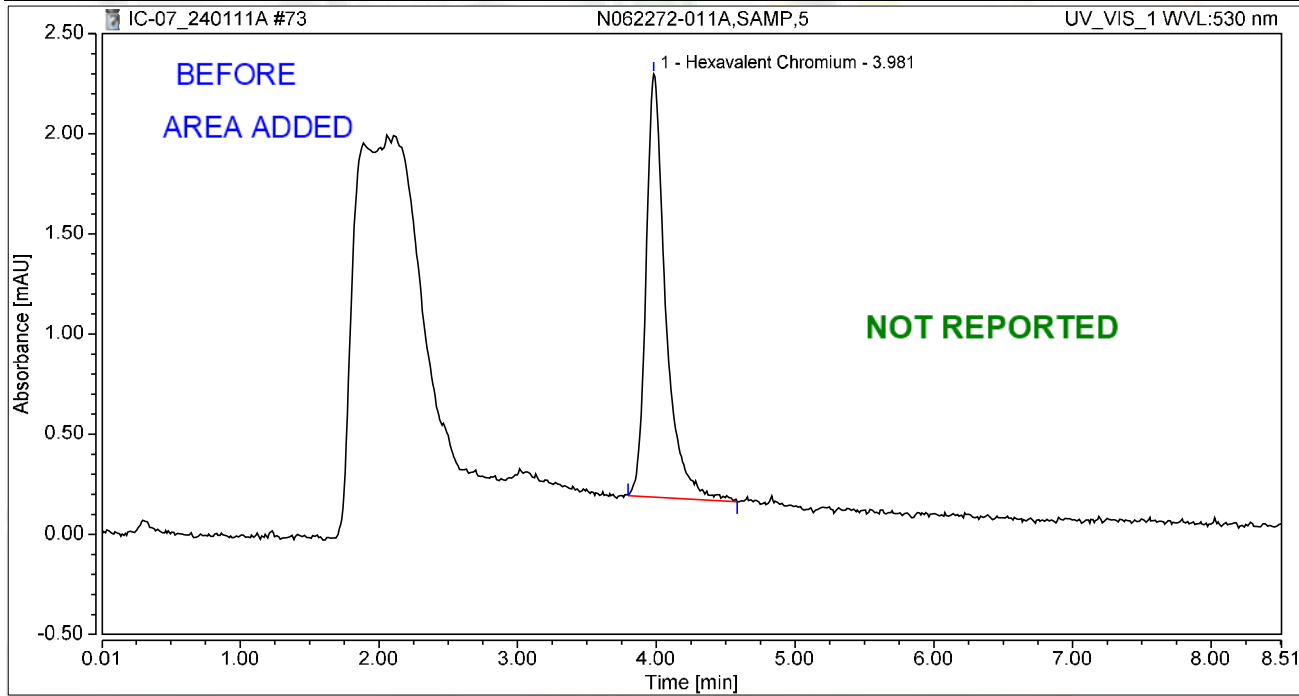
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.335	2.103	100.00	100.00	1.6097
Total:			0.335	2.103	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

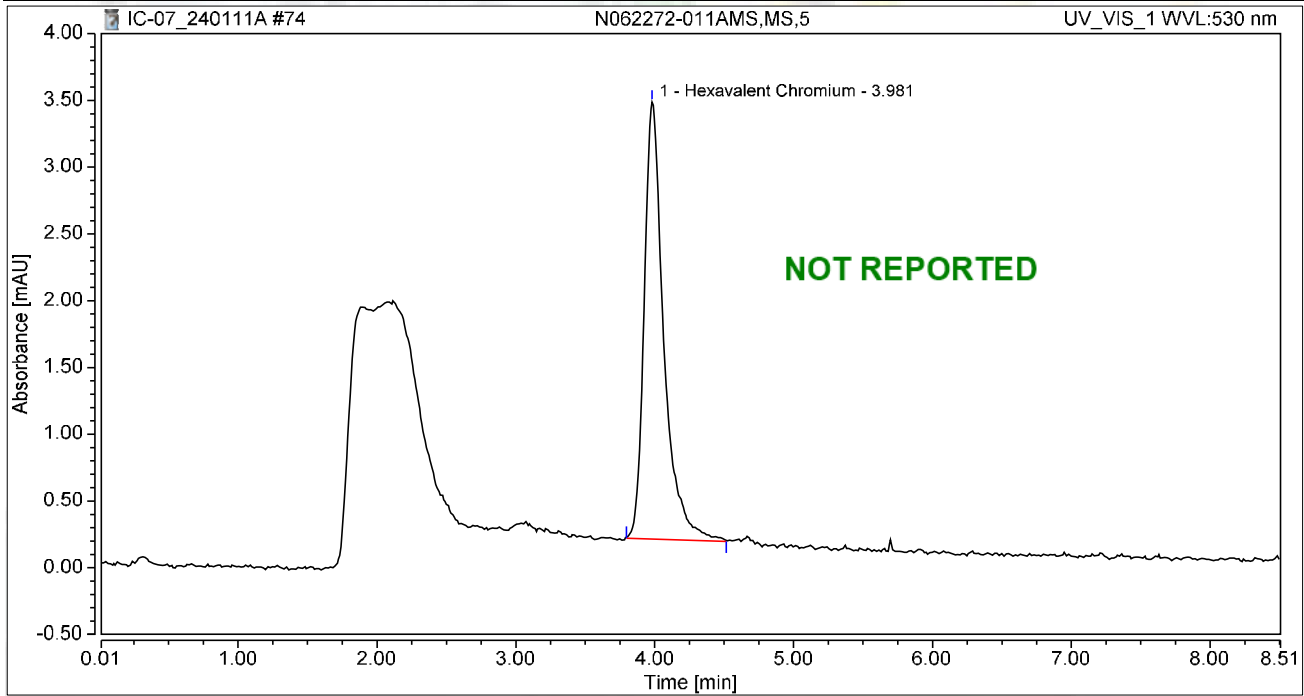
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.347	2.112	100.00	100.00	1.6677
Total:			0.347	2.112	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-011AMS,MS,5	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

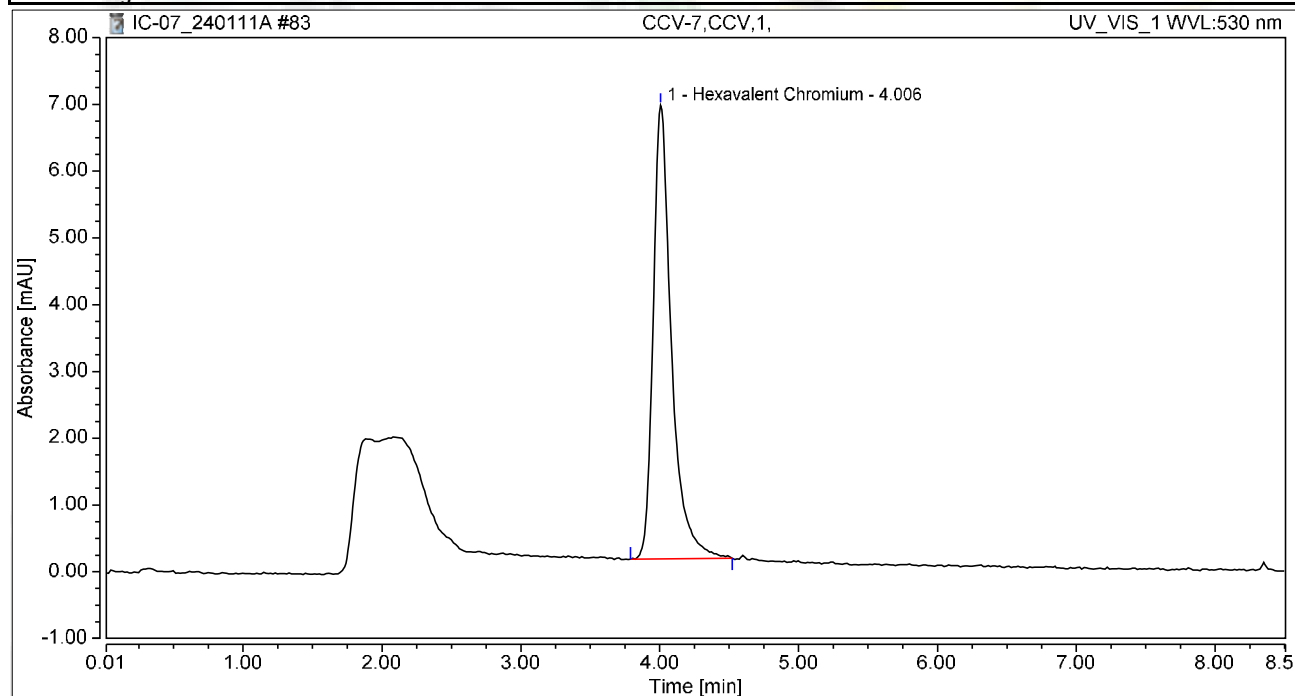
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.534	3.273	100.00	100.00	2.5644
Total:			0.534	3.273	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 23:27	Sample Weight:	1.0000

Chromatogram



Integration Results

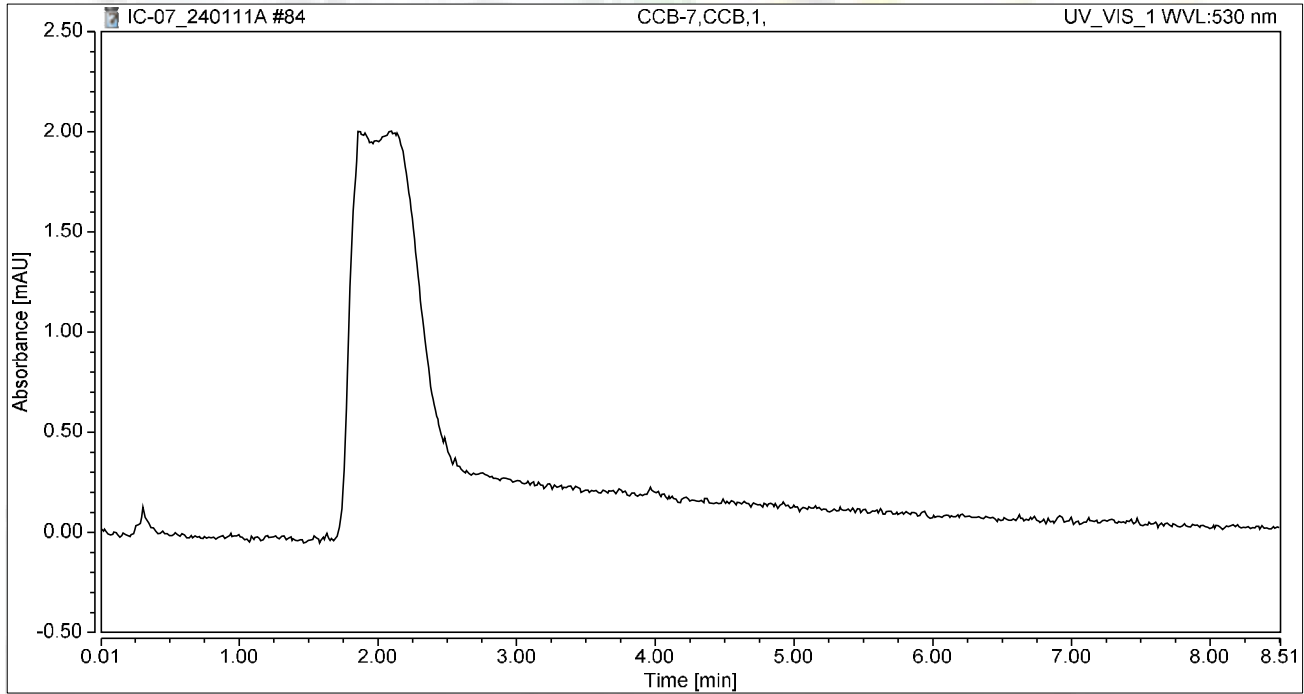
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.036	6.792	100.00	100.00	4.9775
Total:			1.036	6.792	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Jan/24 23:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

1/16/2024

RAW DATA



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240112A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 10:28 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/12/24 10:41 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 10:50 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/12/24 11:00 AM	Reported
13	MB-R180345	MBLK	1	Hexavalent Chromium	01/12/24 11:13 AM	Reported
14	LCS-R180345	LCS	1	Hexavalent Chromium	01/12/24 11:22 AM	Reported
15	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 12:24 PM	Reported
16	N062272-014A	SAMP	5	Hexavalent Chromium	01/12/24 12:39 PM	Reported
17	N062272-014ADUP	DUP	5	Hexavalent Chromium	01/12/24 12:48 PM	Reported
18	N062345-005B	SAMP	1	Hexavalent Chromium	01/12/24 12:58 PM	Reported
19	N062345-005BREP	DUP	1	Hexavalent Chromium	01/12/24 1:07 PM	Reported
20	N062345-005BMS	MS	1	Hexavalent Chromium	01/12/24 1:17 PM	Reported
21	N062272-014AMS	MS	5	Hexavalent Chromium	01/12/24 1:26 PM	Reported
22	N062272-014AMSD	MSD	5	Hexavalent Chromium	01/12/24 1:35 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/12/24 1:45 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/12/24 1:54 PM	Reported
25	N062272-013A	SAMP	1	Hexavalent Chromium	01/12/24 2:04 PM	Reported
26	N062272-013AMS	MS	1	Hexavalent Chromium	01/12/24 2:13 PM	Reported
27	N062272-020A	SAMP	5	Hexavalent Chromium	01/12/24 2:23 PM	Reported
28	N062272-020AMS	MS	5	Hexavalent Chromium	01/12/24 2:32 PM	Reported
29	N062272-015A	SAMP	1	Hexavalent Chromium	01/12/24 2:42 PM	Not Reported
30	N062272-015AMS	MS	1	Hexavalent Chromium	01/12/24 2:51 PM	Not Reported
31	N062272-016A	SAMP	1	Hexavalent Chromium	01/12/24 3:01 PM	Not Reported
32	N062272-016AMS	MS	1	Hexavalent Chromium	01/12/24 3:10 PM	Not Reported
33	N062272-017A	SAMP	1	Hexavalent Chromium	01/12/24 3:19 PM	Reported
34	N062272-017AMS	MS	1	Hexavalent Chromium	01/12/24 3:29 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/12/24 3:38 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/12/24 3:48 PM	Reported
37	N062311-001A	SAMP	5	Hexavalent Chromium	01/12/24 3:57 PM	Reported
38	N062311-001AMS	MS	5	Hexavalent Chromium	01/12/24 4:07 PM	Reported
39	N062272-019A	SAMP	1	Hexavalent Chromium	01/12/24 4:16 PM	Not Reported
40	N062272-019AMS	MS	1	Hexavalent Chromium	01/12/24 4:26 PM	Not Reported
41	N062272-021A	SAMP	1	Hexavalent Chromium	01/12/24 4:35 PM	Reported
42	N062272-021AMS	MS	1	Hexavalent Chromium	01/12/24 4:45 PM	Reported

Reviewed by:

JRB 1/15/2024

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062274-001A	SAMP	1	Hexavalent Chromium	01/12/24 4:54 PM	Reported
44	N062274-001AMS	MS	1	Hexavalent Chromium	01/12/24 5:06 PM	Reported
45	N062274-002A	SAMP	1	Hexavalent Chromium	01/12/24 5:17 PM	Reported
46	N062274-002AMS	MS	1	Hexavalent Chromium	01/12/24 5:26 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/12/24 5:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/12/24 5:45 PM	Reported
49	N062274-003A	SAMP	1	Hexavalent Chromium	01/12/24 5:54 PM	Reported
50	N062274-003AMS	MS	1	Hexavalent Chromium	01/12/24 6:04 PM	Reported
51	N062272-015A	SAMP	5	Hexavalent Chromium	01/12/24 6:13 PM	Not Reported
52	N062272-015AMS	MS	5	Hexavalent Chromium	01/12/24 6:23 PM	Not Reported
53	N062272-016A	SAMP	5	Hexavalent Chromium	01/12/24 6:32 PM	Not Reported
54	N062272-016AMS	MS	5	Hexavalent Chromium	01/12/24 6:42 PM	Not Reported
55	N062310-002A	SAMP	1	Hexavalent Chromium	01/12/24 6:51 PM	Reported
56	N062310-003A	SAMP	20	Hexavalent Chromium	01/12/24 7:01 PM	Reported
57	N062272-018A	SAMP	5	Hexavalent Chromium	01/12/24 7:10 PM	Not Reported
58	N062272-018AMS	MS	5	Hexavalent Chromium	01/12/24 7:20 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/12/24 7:29 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/12/24 7:39 PM	Reported
61	N062272-019A	SAMP	5	Hexavalent Chromium	01/12/24 7:48 PM	Not Reported
62	N062272-019AMS	MS	5	Hexavalent Chromium	01/12/24 7:57 PM	Not Reported
63	N062272-018A	SAMP	1	Hexavalent Chromium	01/12/24 8:07 PM	Not Reported
64	N062272-018AMS	MS	1	Hexavalent Chromium	01/12/24 8:16 PM	Not Reported
65	N062309-011A	SAMP	5	Hexavalent Chromium	01/12/24 8:26 PM	Reported
66	N062309-012A	SAMP	1	Hexavalent Chromium	01/12/24 8:35 PM	Reported
67	N062309-013A	SAMP	1	Hexavalent Chromium	01/12/24 8:45 PM	Reported
68	N062310-001A	SAMP	1	Hexavalent Chromium	01/12/24 8:54 PM	Reported
69	MB-R180346	MBLK	1	Hexavalent Chromium	01/12/24 9:04 PM	Reported
70	LCS-R180346	LCS	1	Hexavalent Chromium	01/12/24 9:13 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/12/24 9:23 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/12/24 9:32 PM	Reported
73	N062310-016A	SAMP	5	Hexavalent Chromium	01/12/24 9:41 PM	Reported
74	N062310-016AMS	MS	5	Hexavalent Chromium	01/12/24 9:51 PM	Reported
75	N062310-016AMSD	MSD	5	Hexavalent Chromium	01/12/24 10:00 PM	Reported
76	N062310-019A	SAMP	20	Hexavalent Chromium	01/12/24 10:10 PM	Reported
77	N062310-019AMS	MS	20	Hexavalent Chromium	01/12/24 10:19 PM	Reported
78	N062310-019AMSD	MSD	20	Hexavalent Chromium	01/12/24 10:29 PM	Reported
79	N062310-005A	SAMP	1	Hexavalent Chromium	01/12/24 10:38 PM	Reported
80	N062310-005ADUP	DUP	1	Hexavalent Chromium	01/12/24 10:48 PM	Reported
81	N062310-006A	SAMP	1	Hexavalent Chromium	01/12/24 10:57 PM	Reported
82	N062310-007A	SAMP	1	Hexavalent Chromium	01/12/24 11:07 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/12/24 11:16 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/12/24 11:26 PM	Reported



INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062310-008A	SAMP	1	Hexavalent Chromium	01/12/24 11:35 PM	Reported
86	N062310-009A	SAMP	1	Hexavalent Chromium	01/12/24 11:44 PM	Reported
87	N062310-010A	SAMP	1	Hexavalent Chromium	01/12/24 11:54 PM	Reported
88	N062310-011A	SAMP	1	Hexavalent Chromium	01/13/24 12:03 AM	Reported
89	N062310-012A	SAMP	5	Hexavalent Chromium	01/13/24 12:13 AM	Reported
90	N062310-013A	SAMP	5	Hexavalent Chromium	01/13/24 12:22 AM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/13/24 12:32 AM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/13/24 12:41 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Jan/24 11:55:15
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/12/2024 10:28	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/12/2024 10:41	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/12/2024 10:50	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/12/2024 11:00	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/12/2024 11:13	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/12/2024 11:22	Finished	LCS @5ppb, IWST-231228B
15	PQL@0.2ppb,CCV2,	1	1000	Unknown		01/12/2024 12:24	Finished	PQL @ 0.2ppb
16	N062272-014A,SAMP	2	1000	Unknown		01/12/2024 12:39	Finished	SAMP,2>10 mL
17	N062272-014ADUP,D	3	1000	Unknown		01/12/2024 12:48	Finished	DUP,2>10 mL
18	N062345-005B,SAMP	4	1000	Unknown		01/12/2024 12:58	Finished	SAMP,10 mL
19	N062345-005BREP,D	5	1000	Unknown		01/12/2024 13:07	Finished	REP,10 mL
20	N062345-005BMS,MS	6	1000	Unknown		01/12/2024 13:17	Finished	MS (1ppb), IWST-231228B,1>10
21	N062272-014AMS,MS	7	1000	Unknown		01/12/2024 13:26	Finished	MS (5ppb), IWST-231228B,2>10
22	N062272-014AMSD,M	8	1000	Unknown		01/12/2024 13:35	Finished	MSD (5ppb), IWST-231228B,2>10
23	CCV-2,CCV1,1,	9	1000	Unknown		01/12/2024 13:45	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/12/2024 13:54	Finished	CCB R231030A
25	N062272-013A,SAMP	11	1000	Unknown		01/12/2024 14:04	Finished	SAMP,10 mL
26	N062272-013AMS,MS	12	1000	Unknown		01/12/2024 14:13	Finished	MS (1ppb), IWST-231228B,1>10
27	N062272-020A,SAMP	13	1000	Unknown		01/12/2024 14:23	Finished	SAMP,2>10 mL
28	N062272-020AMS,MS	14	1000	Unknown		01/12/2024 14:32	Finished	MS (5ppb), IWST-231228B,2>10
29	N062272-015A,SAMP	15	1000	Unknown		01/12/2024 14:42	Finished	SAMP,10 mL
30	N062272-015AMS,MS	16	1000	Unknown		01/12/2024 14:51	Finished	MS (1ppb), IWST-231228B,1>10
31	N062272-016A,SAMP	17	1000	Unknown		01/12/2024 15:01	Finished	SAMP,10 mL
32	N062272-016AMS,MS	18	1000	Unknown		01/12/2024 15:10	Finished	MS (1ppb), IWST-231228B,1>10
33	N062272-017A,SAMP	19	1000	Unknown		01/12/2024 15:19	Finished	SAMP,10 mL
34	N062272-017AMS,MS	20	1000	Unknown		01/12/2024 15:29	Finished	MS (1ppb), IWST-231228B,1>10
35	CCV-3,CCV,1,	21	1000	Unknown		01/12/2024 15:38	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		01/12/2024 15:48	Finished	CCB R231030A
37	N062311-001A,SAMP	23	1000	Unknown		01/12/2024 15:57	Finished	SAMP,2>10 mL
38	N062311-001AMS,MS	24	1000	Unknown		01/12/2024 16:07	Finished	MS (5ppb), IWST-231228B,2>10
39	N062272-019A,SAMP	25	1000	Unknown		01/12/2024 16:16	Finished	SAMP,10 mL
40	N062272-019AMS,MS	26	1000	Unknown		01/12/2024 16:26	Finished	MS (1ppb), IWST-231228B,1>10
41	N062272-021A,SAMP	27	1000	Unknown		01/12/2024 16:35	Finished	SAMP,1>10 mL
42	N062272-021AMS,MS	28	1000	Unknown		01/12/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>10
43	N062274-001A,SAMP	29	1000	Unknown		01/12/2024 16:54	Finished	SAMP,10 mL
44	N062274-001AMS,MS	1	1000	Unknown		01/12/2024 17:06	Finished	MS (1ppb), IWST-231228B,10r
45	N062274-002A,SAMP	2	1000	Unknown		01/12/2024 17:17	Finished	SAMP,10 mL
46	N062274-002AMS,MS	3	1000	Unknown		01/12/2024 17:26	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	4	1000	Unknown		01/12/2024 17:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	5	1000	Unknown		01/12/2024 17:45	Finished	CCB R231030A
49	N062274-003A,SAMP	6	1000	Unknown		01/12/2024 17:54	Finished	DUP,0.5>10 mL
50	N062274-003AMS,MS	7	1000	Unknown		01/12/2024 18:04	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-015A,SAMP	8	1000	Unknown		01/12/2024 18:13	Finished	SAMP,2>10 mL
52	N062272-015AMS,MS	9	1000	Unknown		01/12/2024 18:23	Finished	MS (1ppb), IWST-231228B,2>10
53	N062272-016A,SAMP	10	1000	Unknown		01/12/2024 18:32	Finished	SAMP,2>10 mL
54	N062272-016AMS,MS	11	1000	Unknown		01/12/2024 18:42	Finished	MS (1ppb), IWST-231228B,2>10
55	N062310-002A,SAMP	12	1000	Unknown		01/12/2024 18:51	Finished	SAMP,10 mL
56	N062310-003A,SAMP	13	1000	Unknown		01/12/2024 19:01	Finished	SAMP,2>10 mL
57	N062272-018A,SAMP	14	1000	Unknown		01/12/2024 19:10	Finished	SAMP,2>10 mL
58	N062272-018AMS,MS	15	1000	Unknown		01/12/2024 19:20	Finished	MS (1ppb), IWST-231228B,2>10
59	CCV-5,CCV,1,	16	1000	Unknown		01/12/2024 19:29	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	17	1000	Unknown		01/12/2024 19:39	Finished	CCB R231227C

61	N062272-019A,SAMF	18	1000	Unknown		01/12/2024 19:48	Finished	SAMP,2>10 mL
62	N062272-019AMS,MS	19	1000	Unknown		01/12/2024 19:57	Finished	MS (1ppb), IWST-231228B,2>1
63	N062272-018A,SAMF	20	1000	Unknown		01/12/2024 20:07	Finished	SAMP,10 mL
64	N062272-018AMS,MS	21	1000	Unknown		01/12/2024 20:16	Finished	MS (1ppb), IWST-231228B,1>1
65	N062309-011A,SAMF	22	1000	Unknown		01/12/2024 20:26	Finished	SAMP,2>10 mL
66	N062309-012A,SAMF	23	1000	Unknown		01/12/2024 20:35	Finished	SAMP,10 mL
67	N062309-013A,SAMF	24	1000	Unknown		01/12/2024 20:45	Finished	SAMP,10 mL
68	N062310-001A,SAMF	25	1000	Unknown		01/12/2024 20:54	Finished	SAMP,10 mL
69	MB-2,MBLK,1,	26	1000	Unknown		01/12/2024 21:04	Finished	MB R231227C
70	LCS-2,LCS,1,	27	1000	Unknown		01/12/2024 21:13	Finished	LCS @5ppb, IWST-231228B
71	CCV-6,CCV1,1,	28	1000	Unknown		01/12/2024 21:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown		01/12/2024 21:32	Finished	CCB R231227C
73	N062310-016A,SAMF	30	1000	Unknown		01/12/2024 21:41	Finished	SAMP,2>10 mL
74	N062310-016AMS,MS	31	1000	Unknown		01/12/2024 21:51	Finished	MS (5ppb), IWST-231228B,2>1
75	N062310-016AMSD,MS	32	1000	Unknown		01/12/2024 22:00	Finished	MSD (5ppb), IWST-231228B,2>1
76	N062310-019A,SAMF	33	1000	Unknown		01/12/2024 22:10	Finished	SAMP,0.5>10 mL
77	N062310-019AMS,MS	34	1000	Unknown		01/12/2024 22:19	Finished	MS (5ppb), IWST-231228B,0.5>1
78	N062310-019AMSD,MS	35	1000	Unknown		01/12/2024 22:29	Finished	MSD (5ppb), IWST-231228B,0.5>1
79	N062310-005A,SAMF	36	1000	Unknown		01/12/2024 22:38	Finished	SAMP,10 mL
80	N062310-005ADUP,1,	37	1000	Unknown		01/12/2024 22:48	Finished	DUP,10 mL
81	N062310-006A,SAMF	38	1000	Unknown		01/12/2024 22:57	Finished	SAMP,10 mL
82	N062310-007A,SAMF	39	1000	Unknown		01/12/2024 23:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown		01/12/2024 23:16	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown		01/12/2024 23:26	Finished	CCB R231227C
85	N062310-008A,SAMF	42	1000	Unknown		01/12/2024 23:35	Finished	SAMP,10 mL
86	N062310-009A,SAMF	43	1000	Unknown		01/12/2024 23:44	Finished	SAMP,10 mL
87	N062310-010A,SAMF	44	1000	Unknown		01/12/2024 23:54	Finished	SAMP,10 mL
88	N062310-011A,SAMF	45	1000	Unknown		01/13/2024 00:03	Finished	SAMP,10 mL
89	N062310-012A,SAMF	46	1000	Unknown		01/13/2024 00:13	Finished	SAMP,2>10 mL
90	N062310-013A,SAMF	47	1000	Unknown		01/13/2024 00:22	Finished	SAMP,2>10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown		01/13/2024 00:32	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown		01/13/2024 00:41	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown		01/13/2024 00:51	Finished	
94	Eluent: R240108A	51	1000	Unknown		n.a.	Finished	
95	PCR: R240108B	CurrentVial	1000	Unknown		n.a.	Finished	

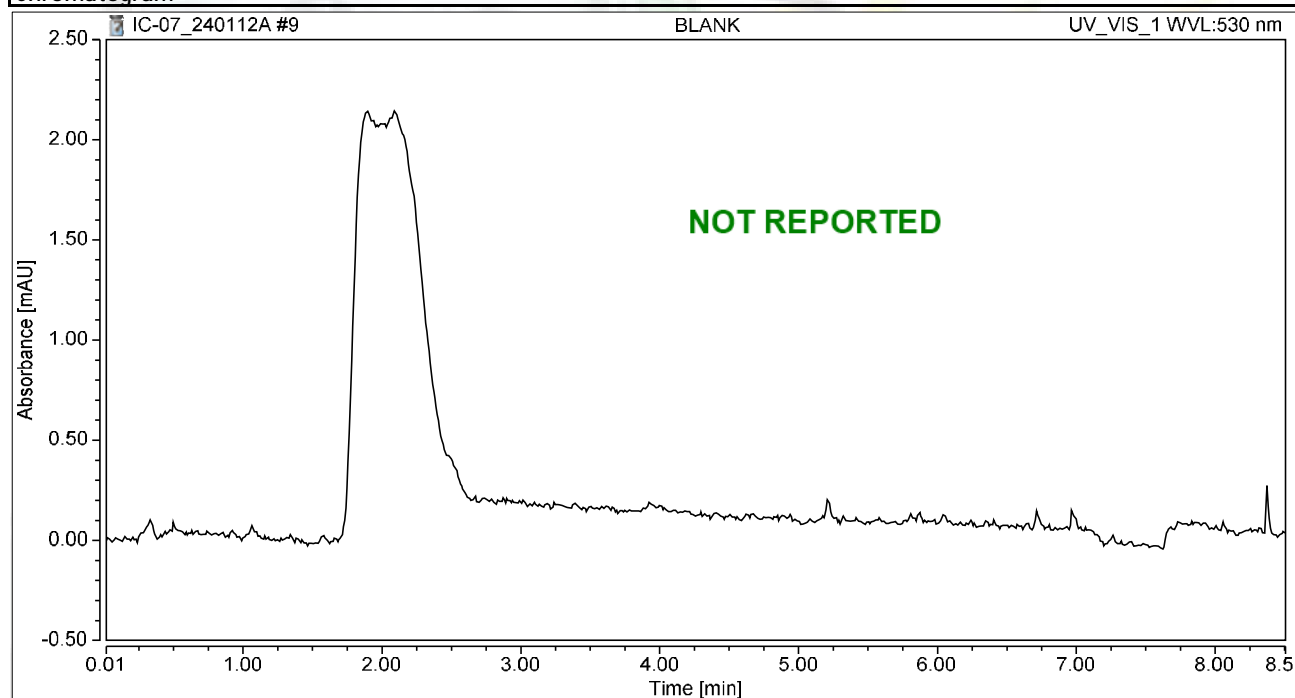


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 10:28	Sample Weight:	1.0000

Chromatogram



Integration Results

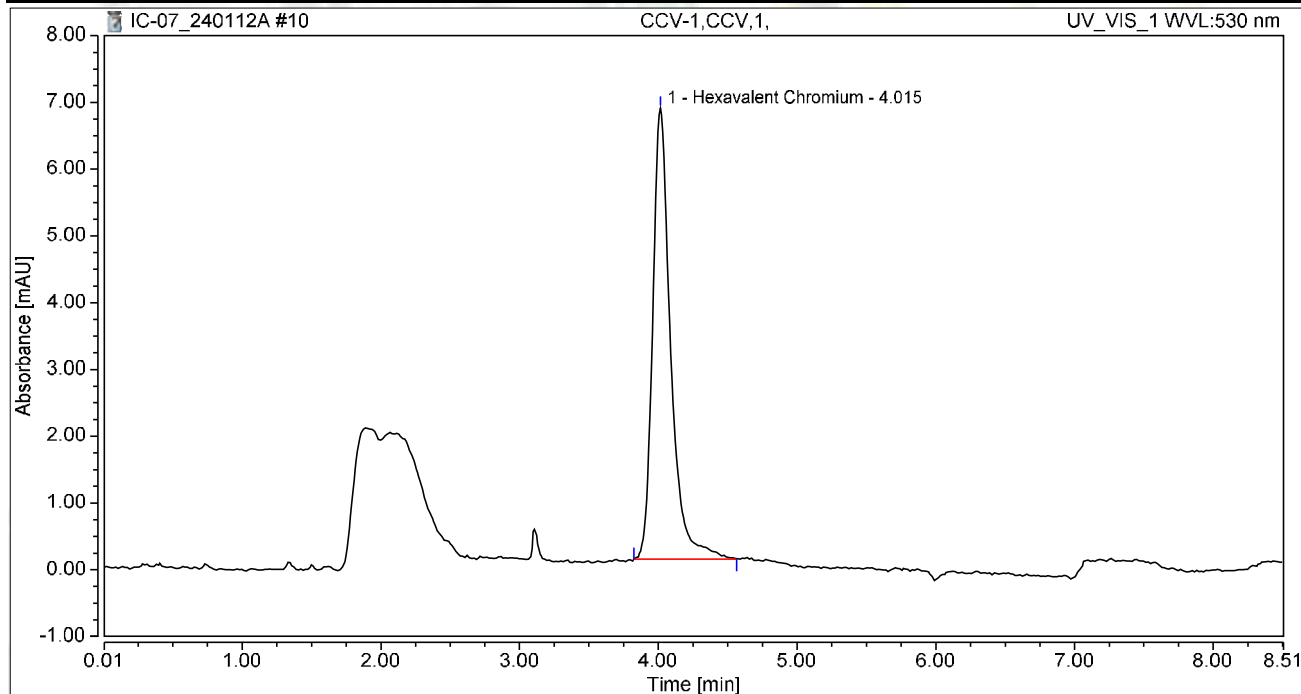
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 10:41	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.017	6.756	100.00	100.00	4.8882
Total:			1.017	6.756	100.00	100.00	

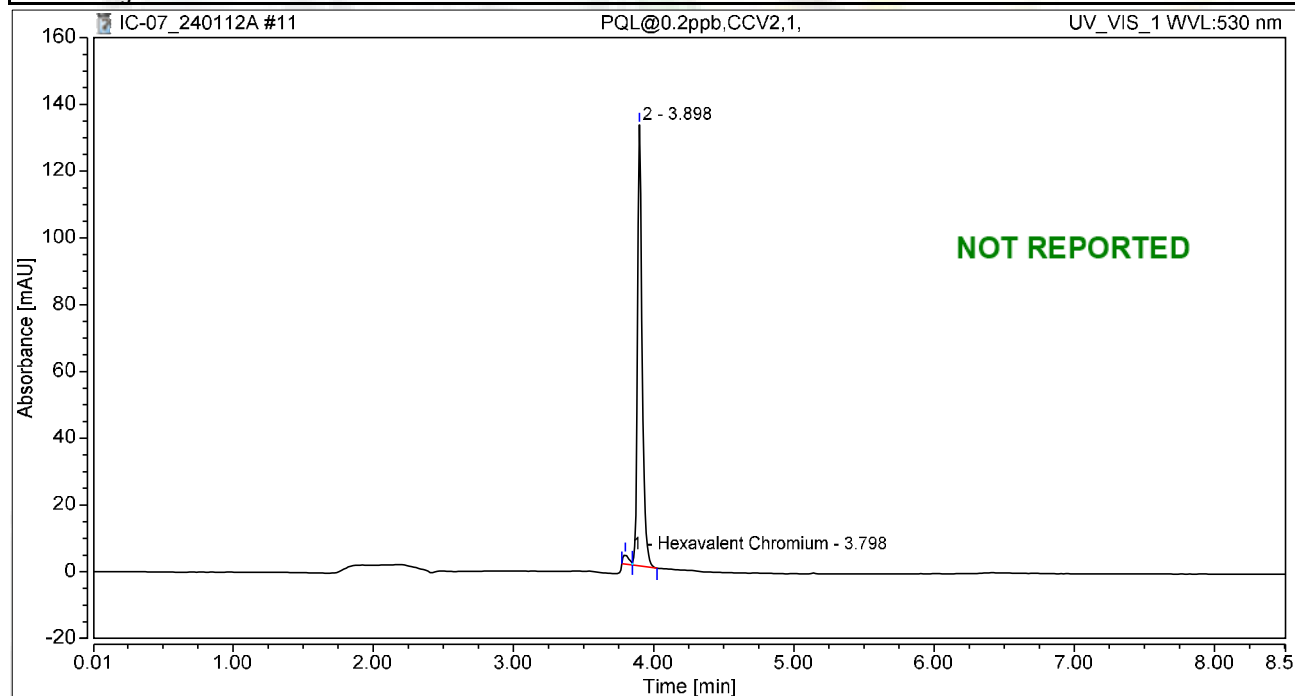
Reviewed by:

JRB 1/15/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 10:50	Sample Weight: 1.0000

Chromatogram



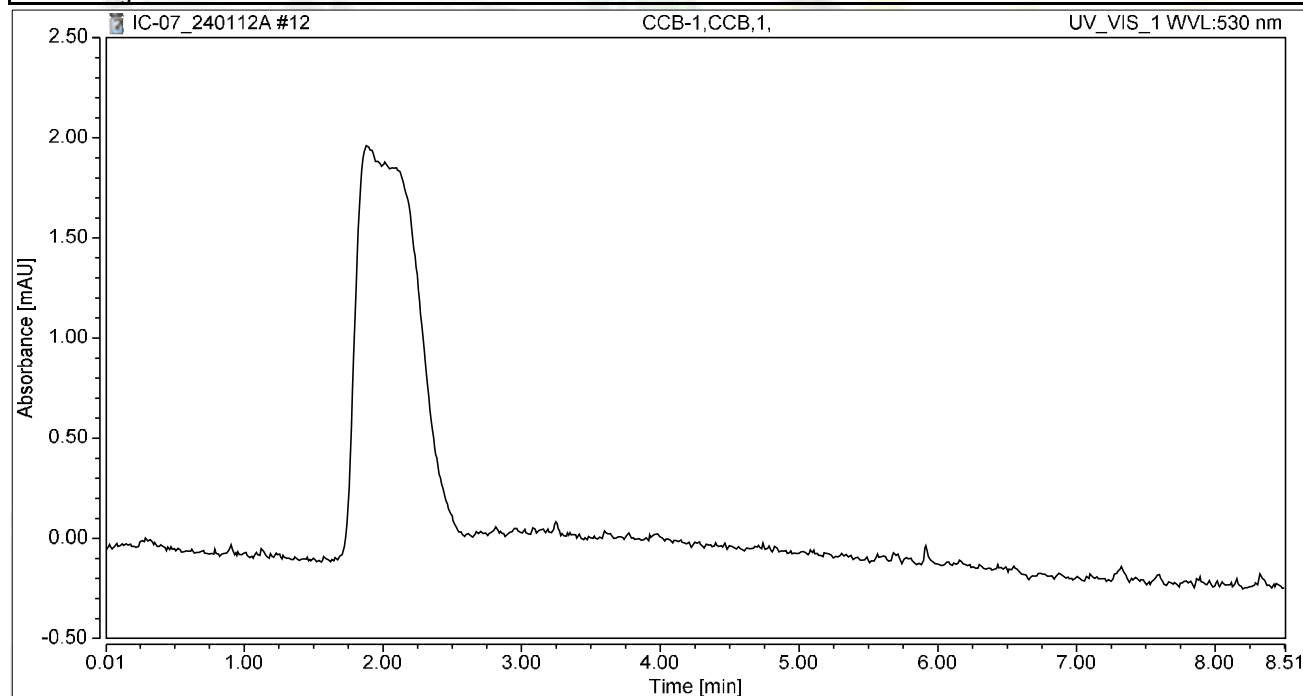
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	0.137	2.872	2.66	2.13	0.6565
2		3.898	4.998	132.213	97.34	97.87	n.a.
Total:			5.134	135.084	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 11:00	Sample Weight:	1.0000

Chromatogram



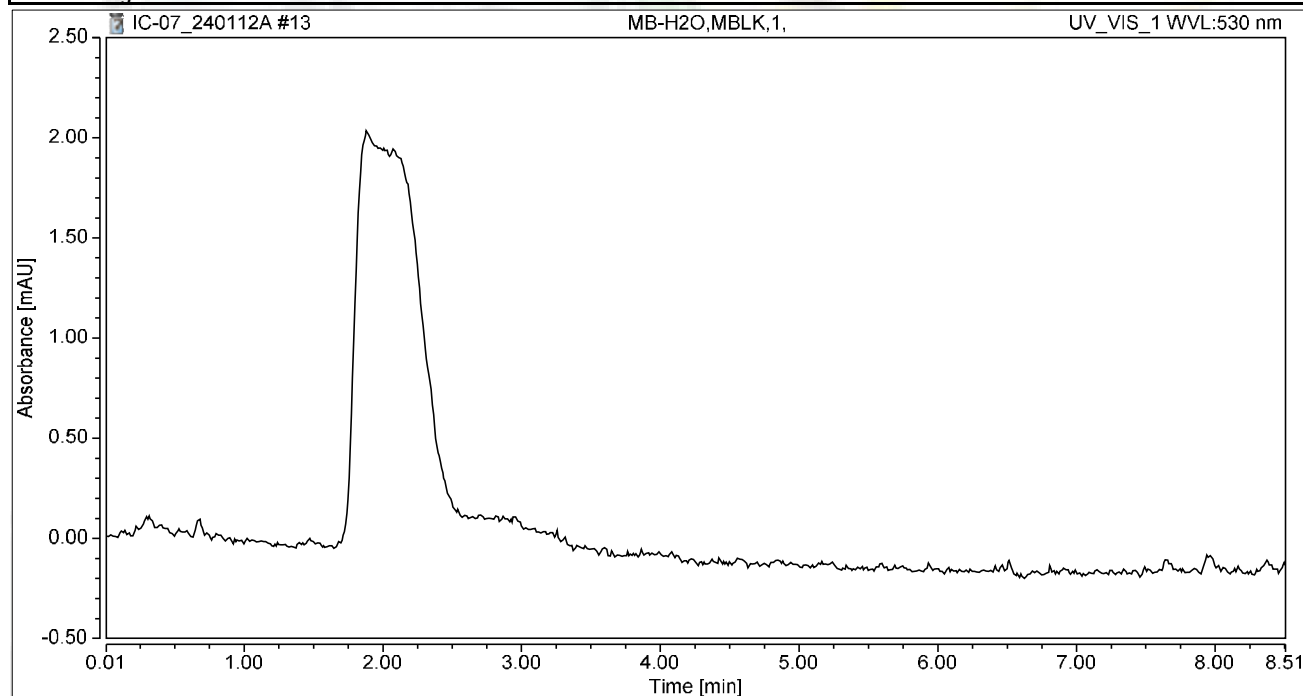
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	MB-H2O,MBLK,1,	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 11:13	Sample Weight: 1.0000

Chromatogram



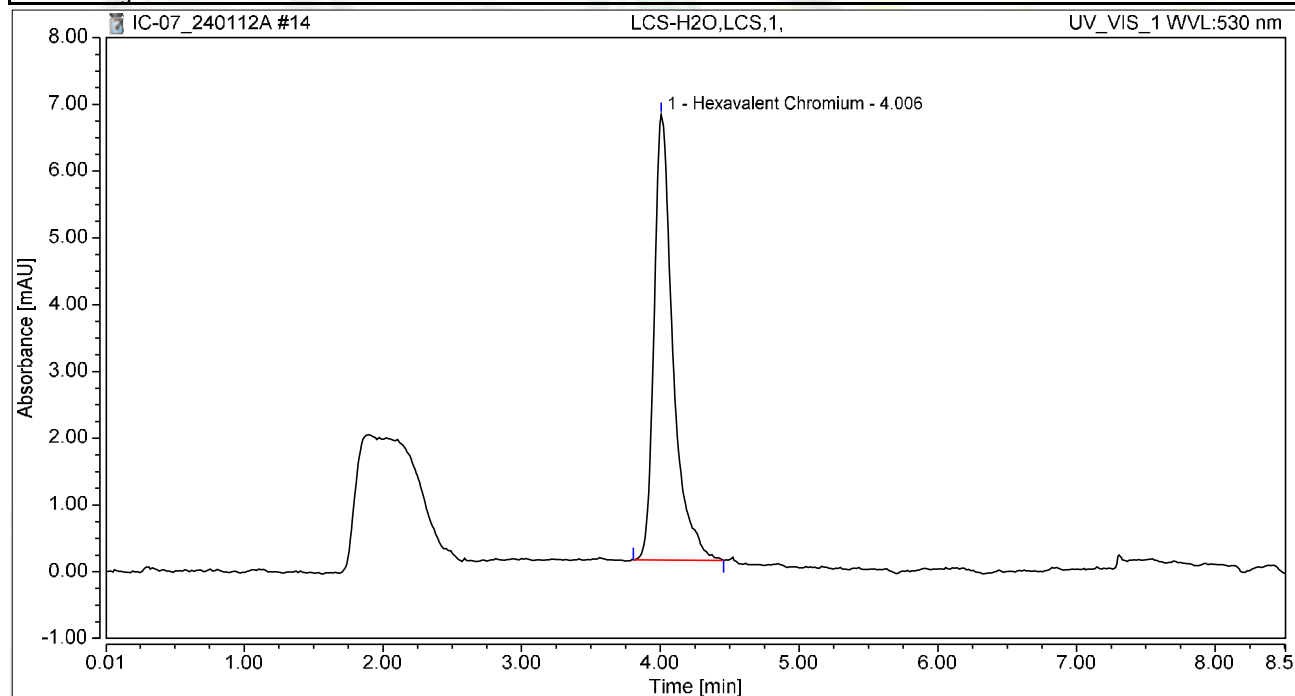
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 11:22	Sample Weight:	1.0000

Chromatogram



Integration Results

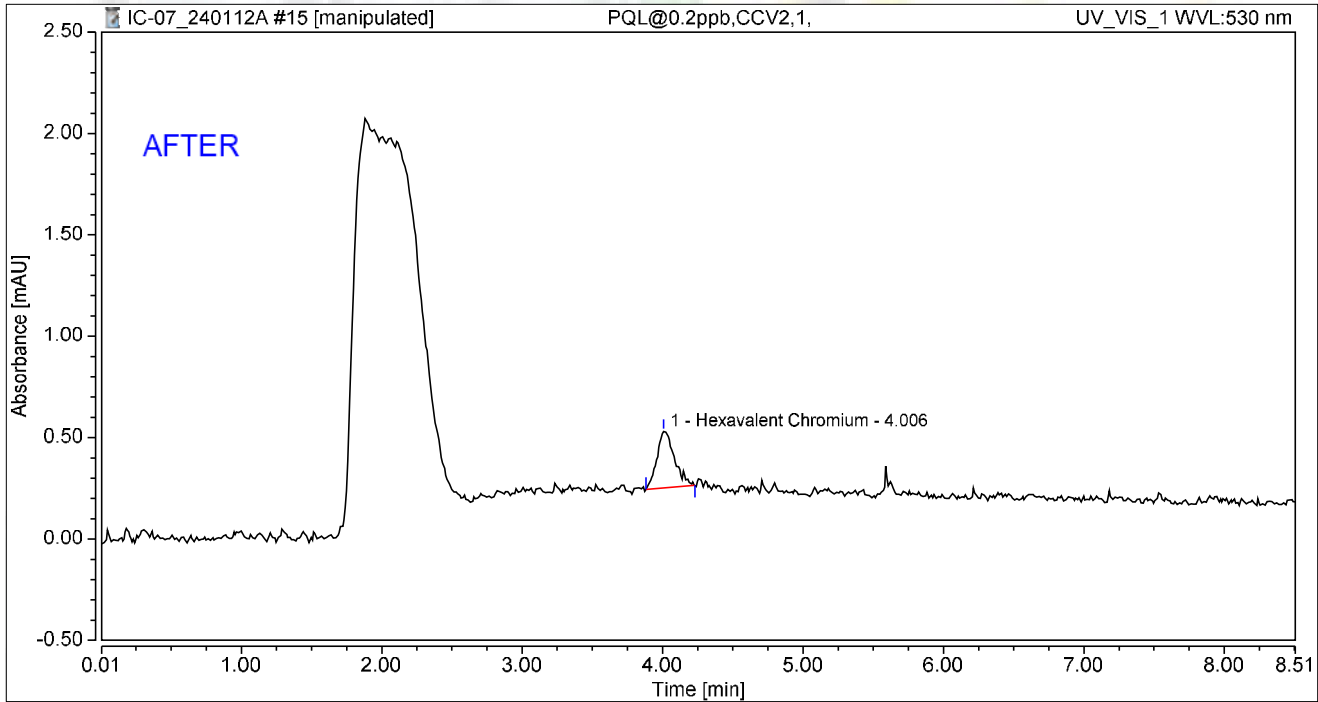
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.051	6.672	100.00	100.00	5.0523
Total:			1.051	6.672	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.040	0.277	100.00	100.00	0.1929
Total:			0.040	0.277	100.00	100.00	

Reviewed by:

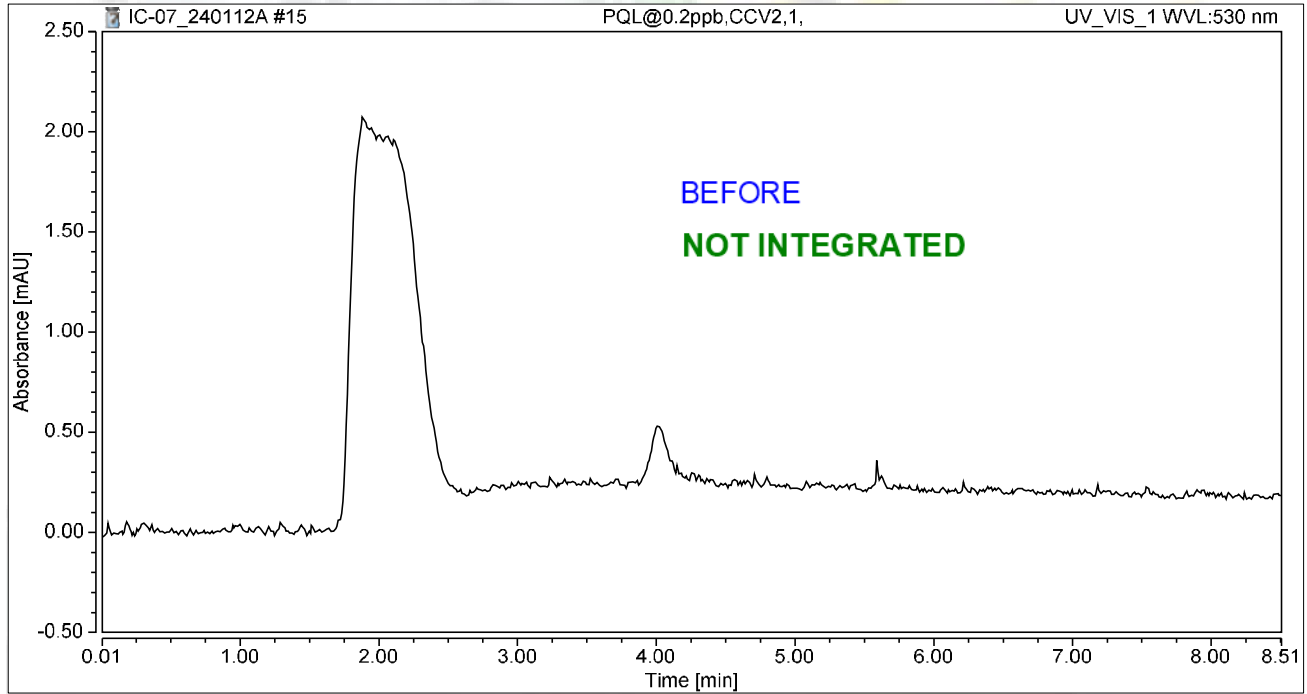
jrb 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

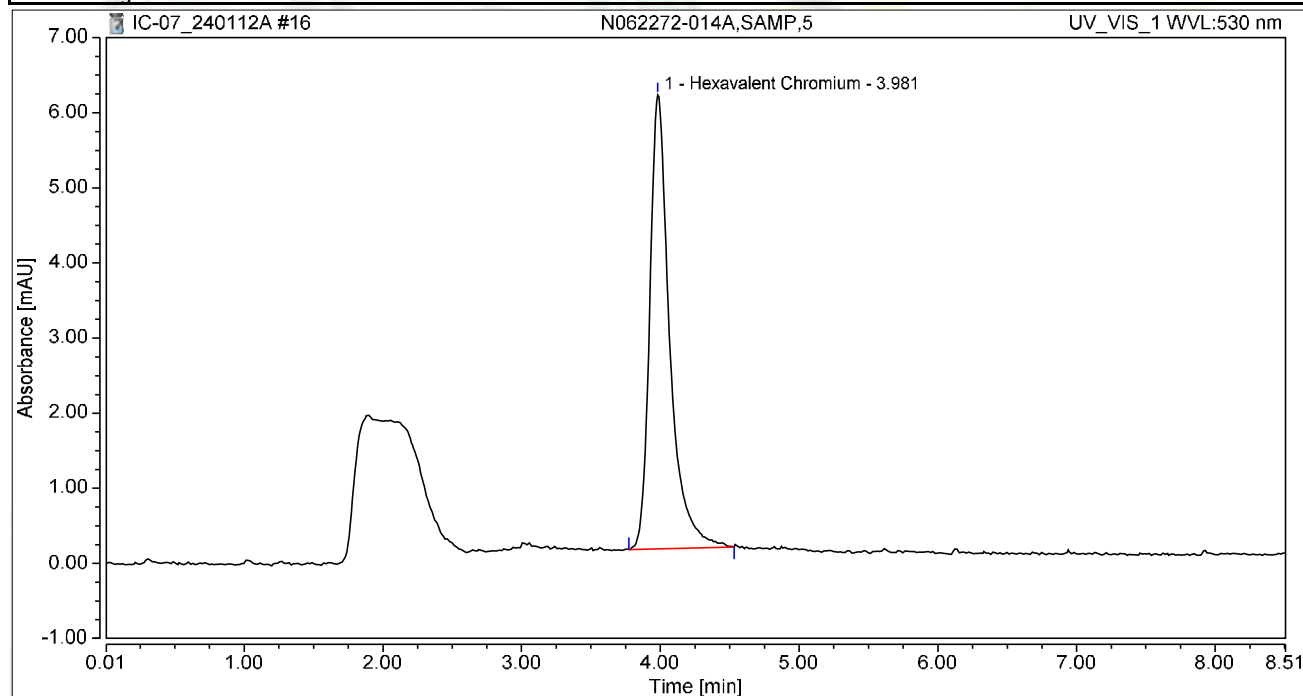
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:39	Sample Weight:	1.0000

Chromatogram



Integration Results

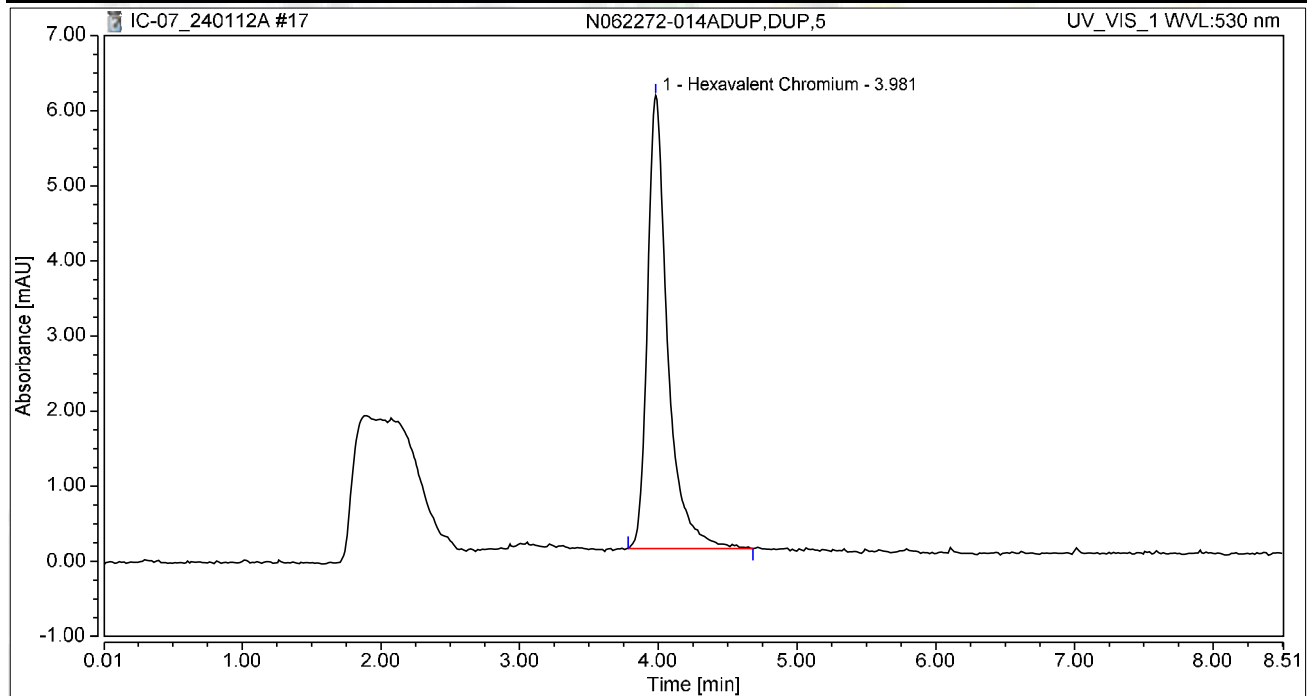
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.009	6.047	100.00	100.00	4.8495
Total:			1.009	6.047	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-014ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:48	Sample Weight:	1.0000

Chromatogram



Integration Results

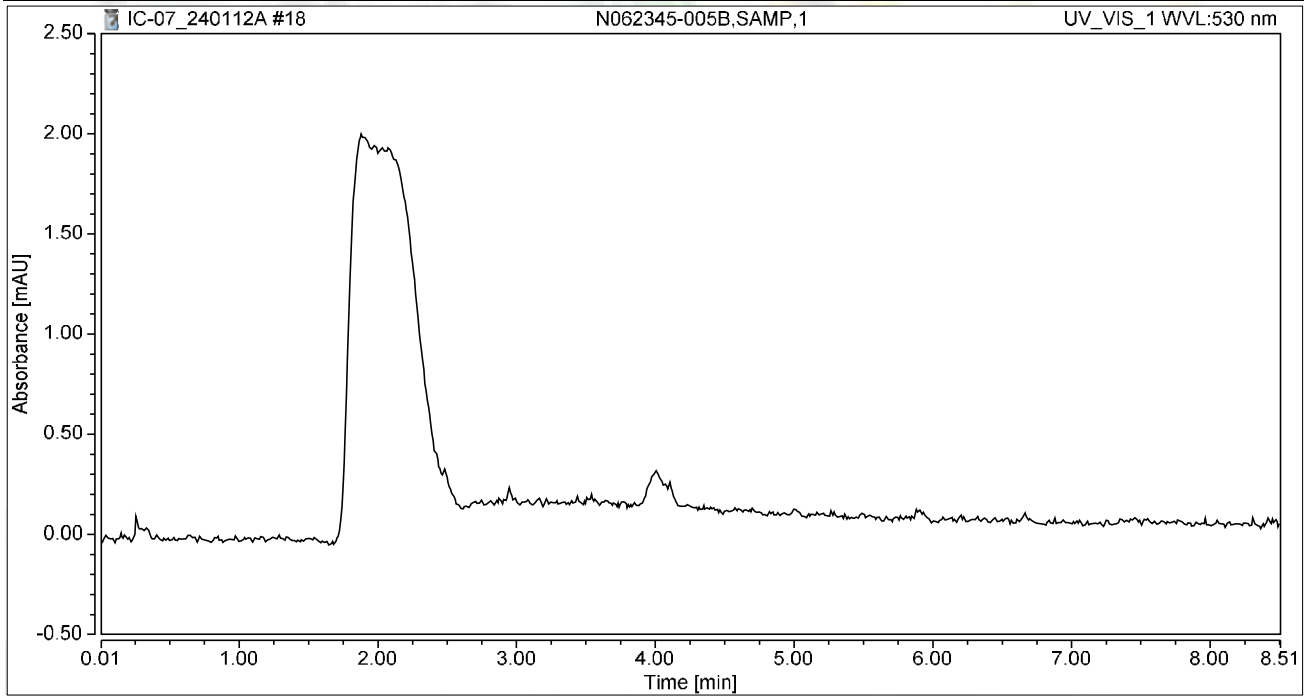
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.017	6.029	100.00	100.00	4.8862
Total:			1.017	6.029	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062345-005B,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:58	Sample Weight:	1.0000

Chromatogram



Integration Results

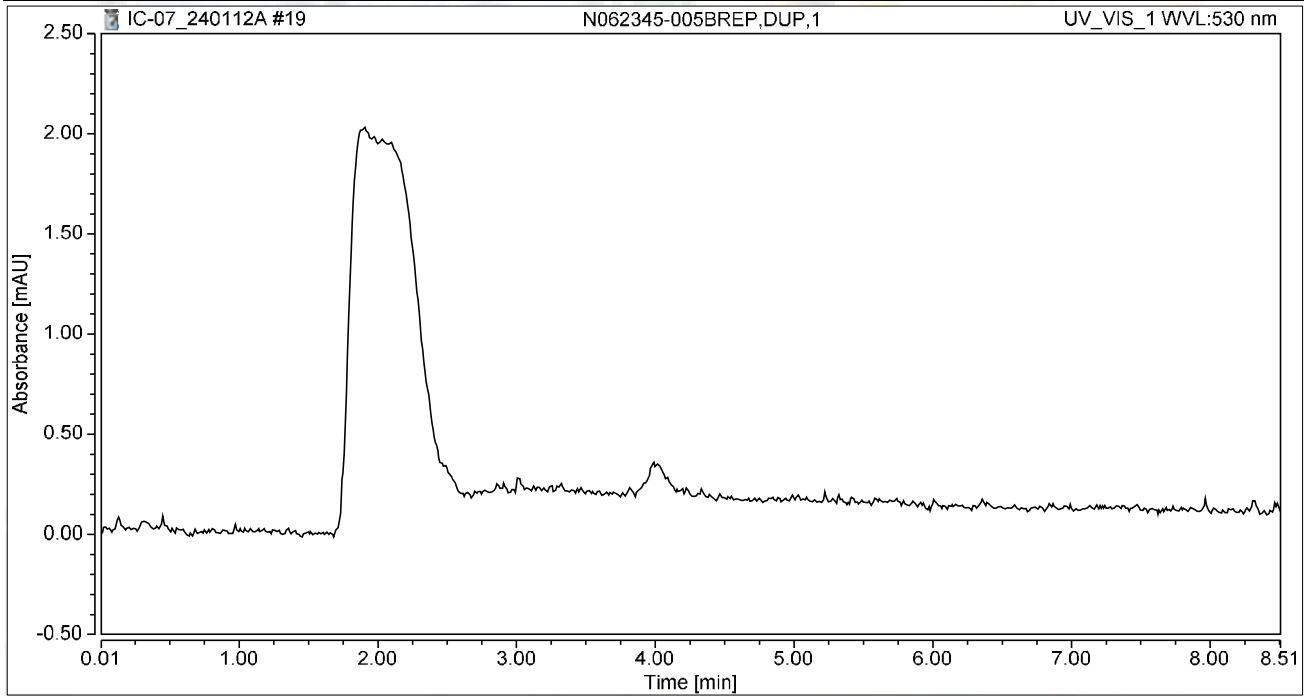
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062345-005BREP,DUP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:07	Sample Weight:	1.0000

Chromatogram



Integration Results

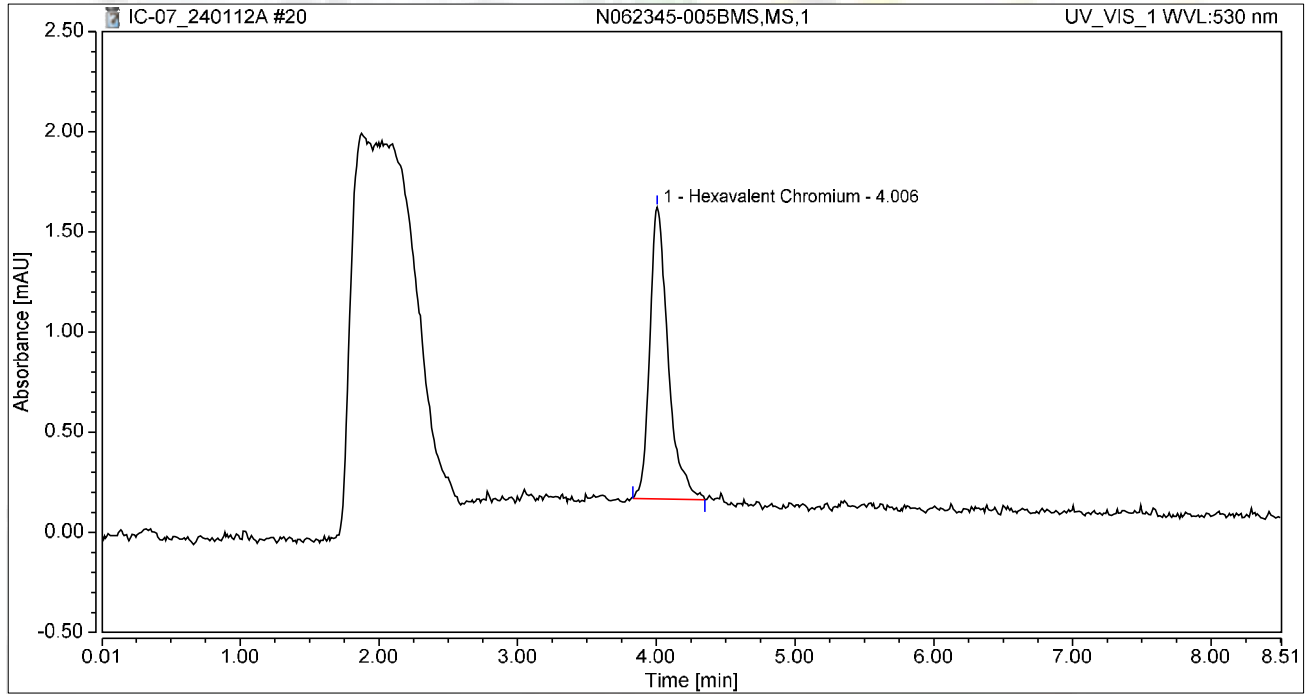
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062345-005BMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:17	Sample Weight:	1.0000

Chromatogram



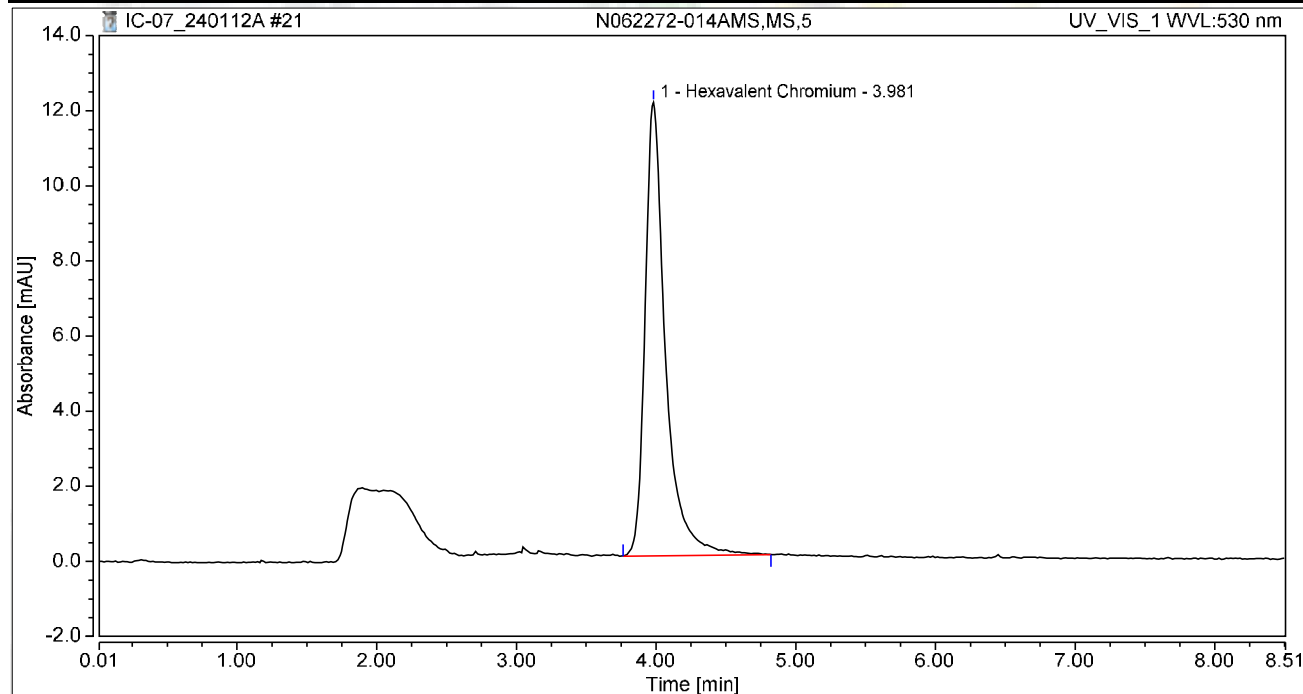
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.224	1.456	100.00	100.00	1.0743
Total:			0.224	1.456	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-014AMS,MS,5	Run Time (min): 8.49
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 13:26	Sample Weight: 1.0000

Chromatogram



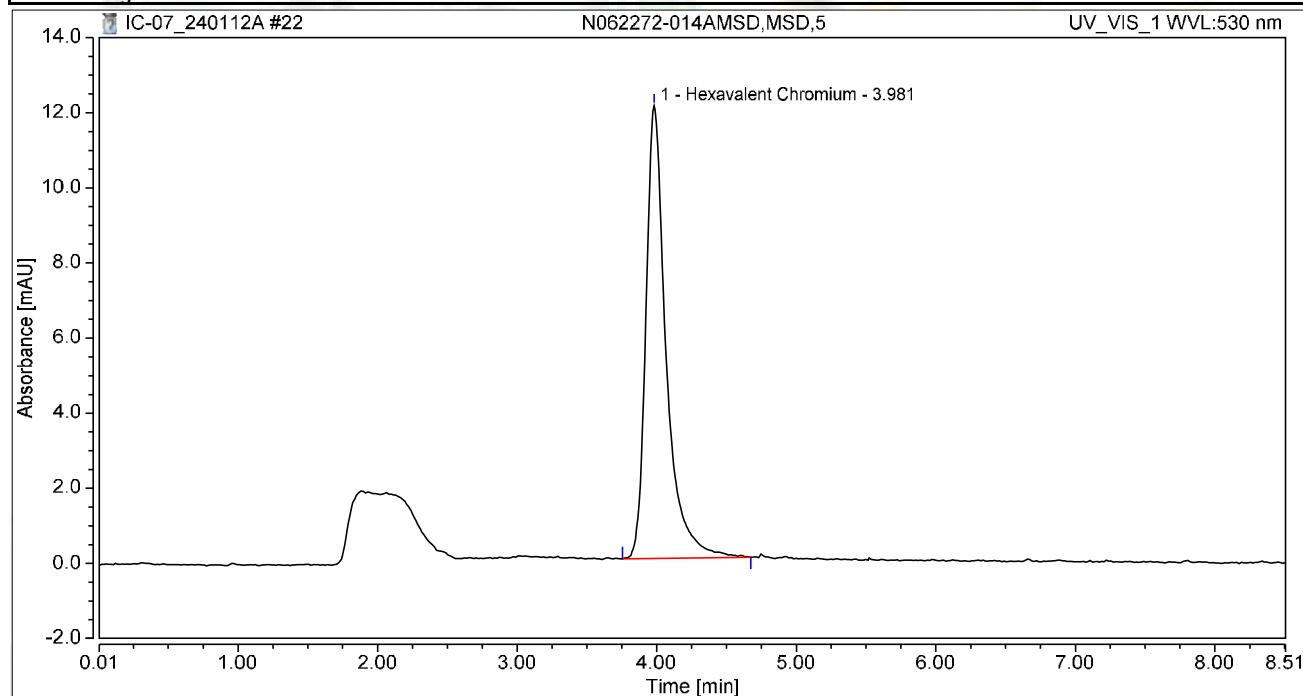
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	2.054	12.080	100.00	100.00	9.8726
Total:			2.054	12.080	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-014AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:35	Sample Weight:	1.0000

Chromatogram



Integration Results

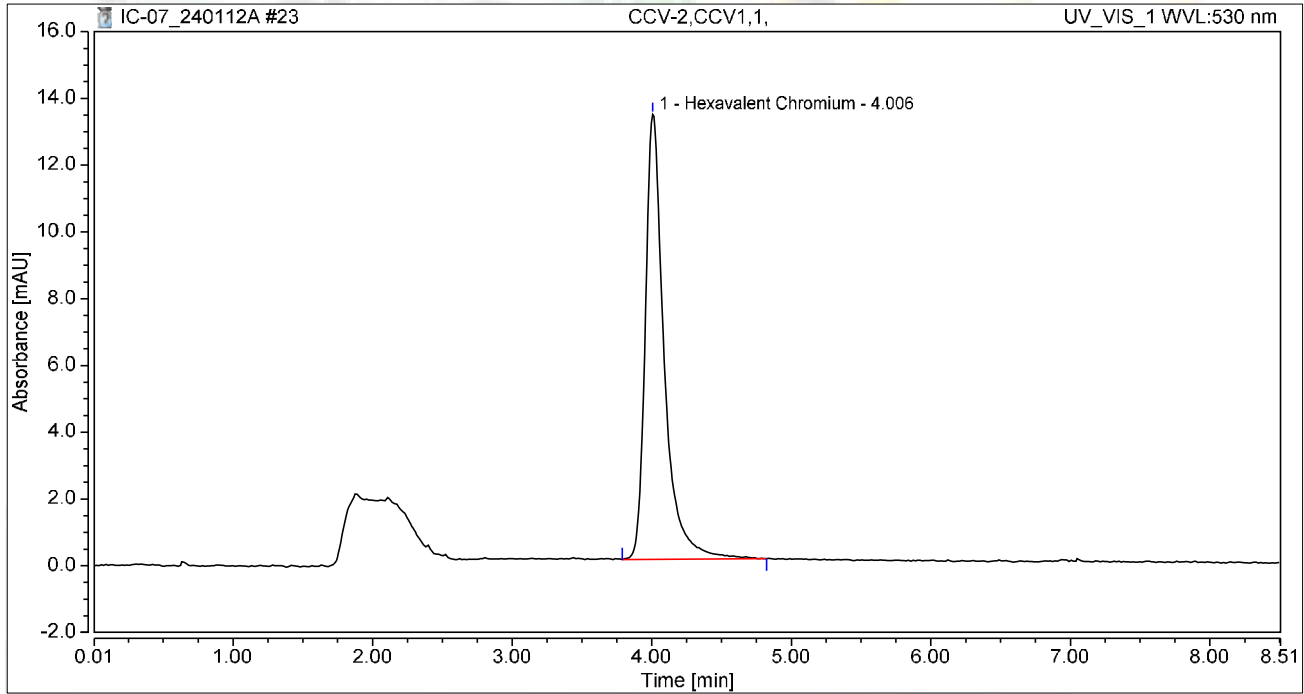
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	2.028	12.054	100.00	100.00	9.7441
Total:			2.028	12.054	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:45	Sample Weight:	1.0000

Chromatogram



Integration Results

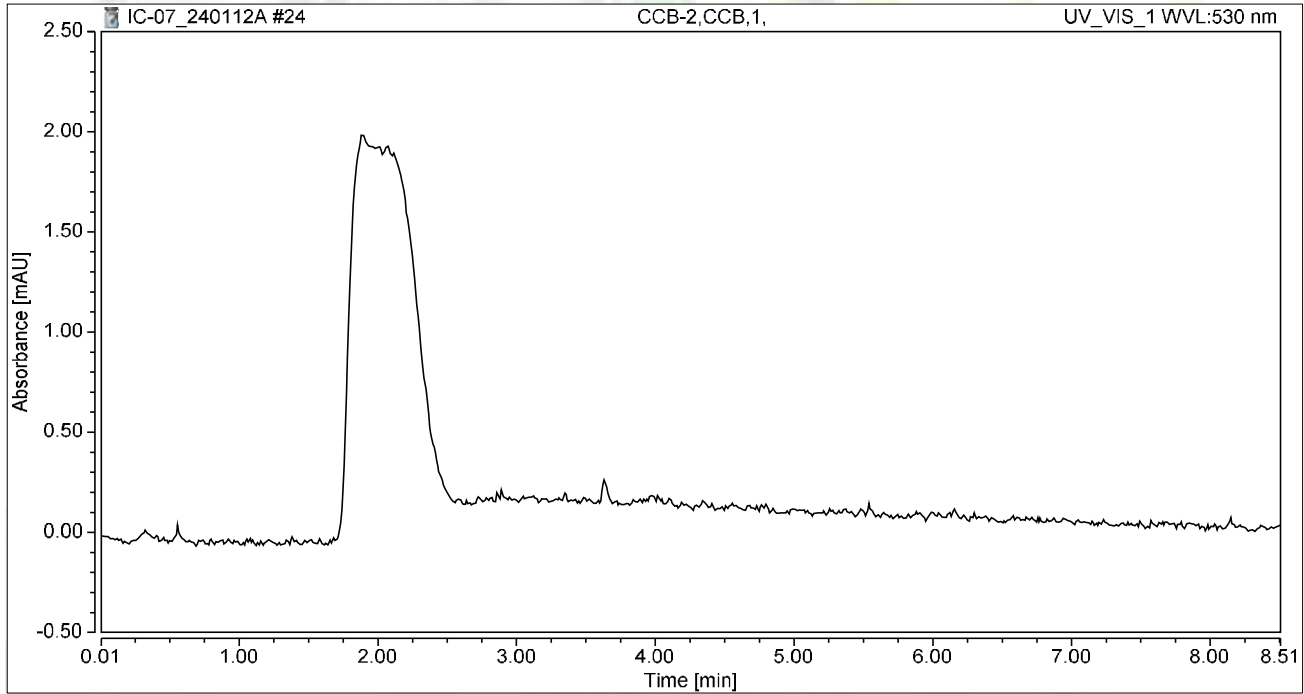
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.098	13.332	100.00	100.00	10.0837
Total:			2.098	13.332	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:54	Sample Weight:	1.0000

Chromatogram



Integration Results

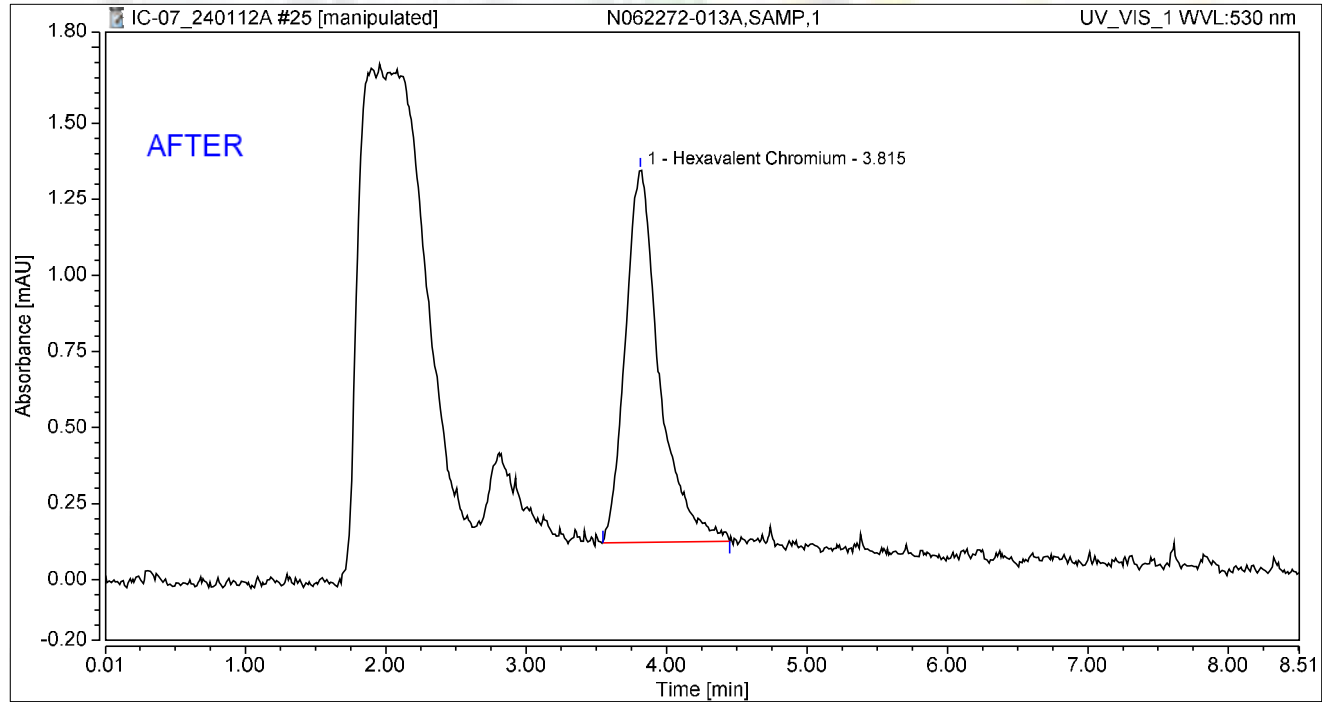
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

jrb 1/15/2024

Chromatogram and Results

Injection Details		
Injection Name:	N062272-013A,SAMP,1	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 14:04	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.343	1.225	100.00	100.00	1.6480
Total:			0.343	1.225	100.00	100.00	

Reviewed by:

jrb

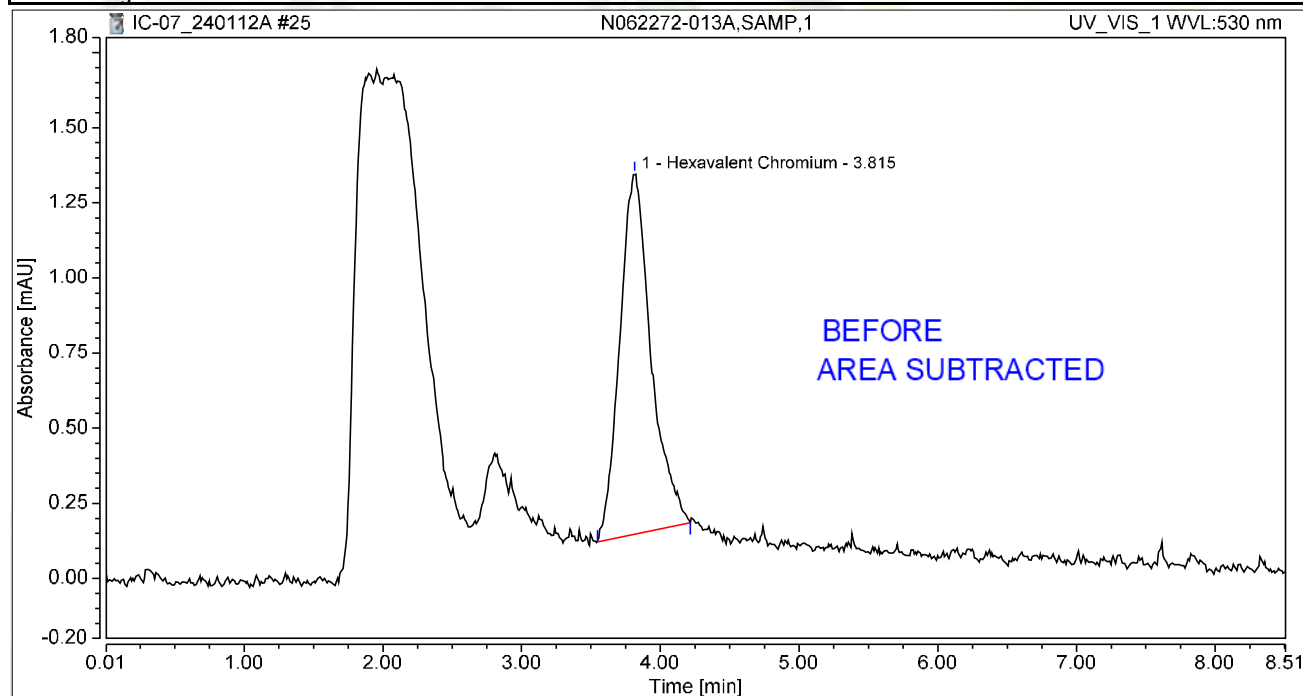
1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062272-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:04	Sample Weight:	1.0000

Chromatogram



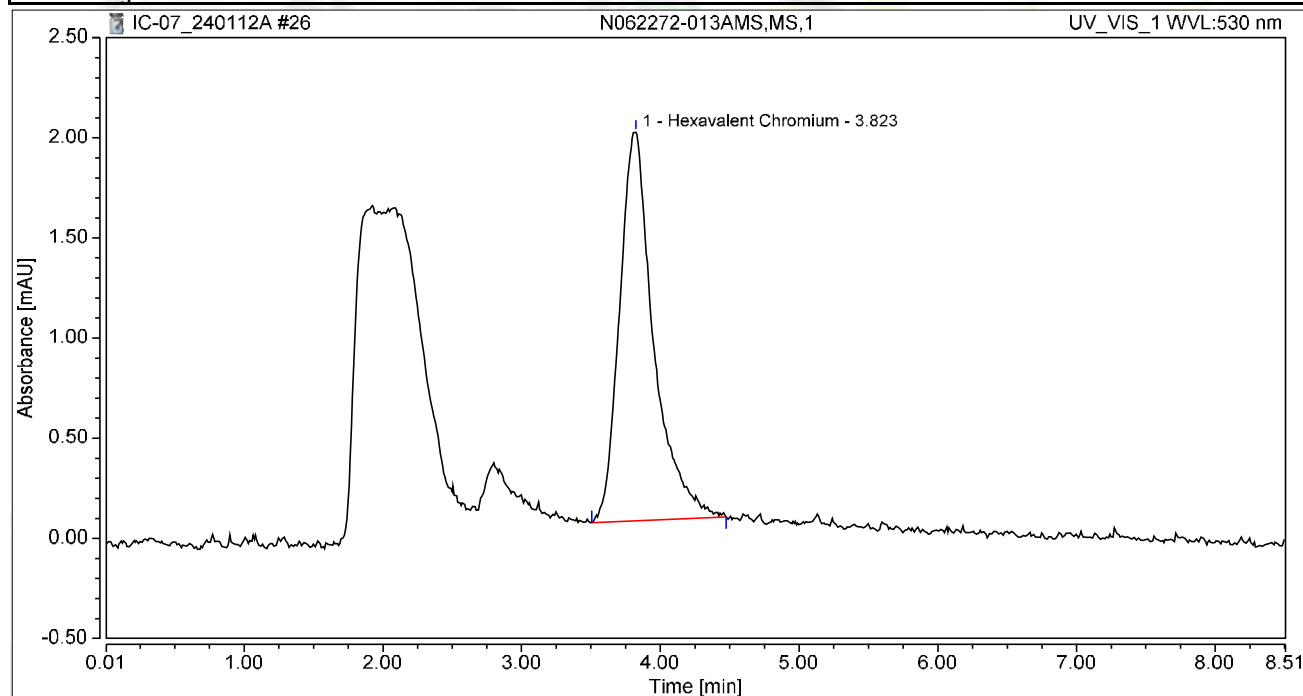
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.313	1.201	100.00	100.00	1.5038
Total:			0.313	1.201	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-013AMS,MS,1	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 14:13	Sample Weight: 1.0000

Chromatogram

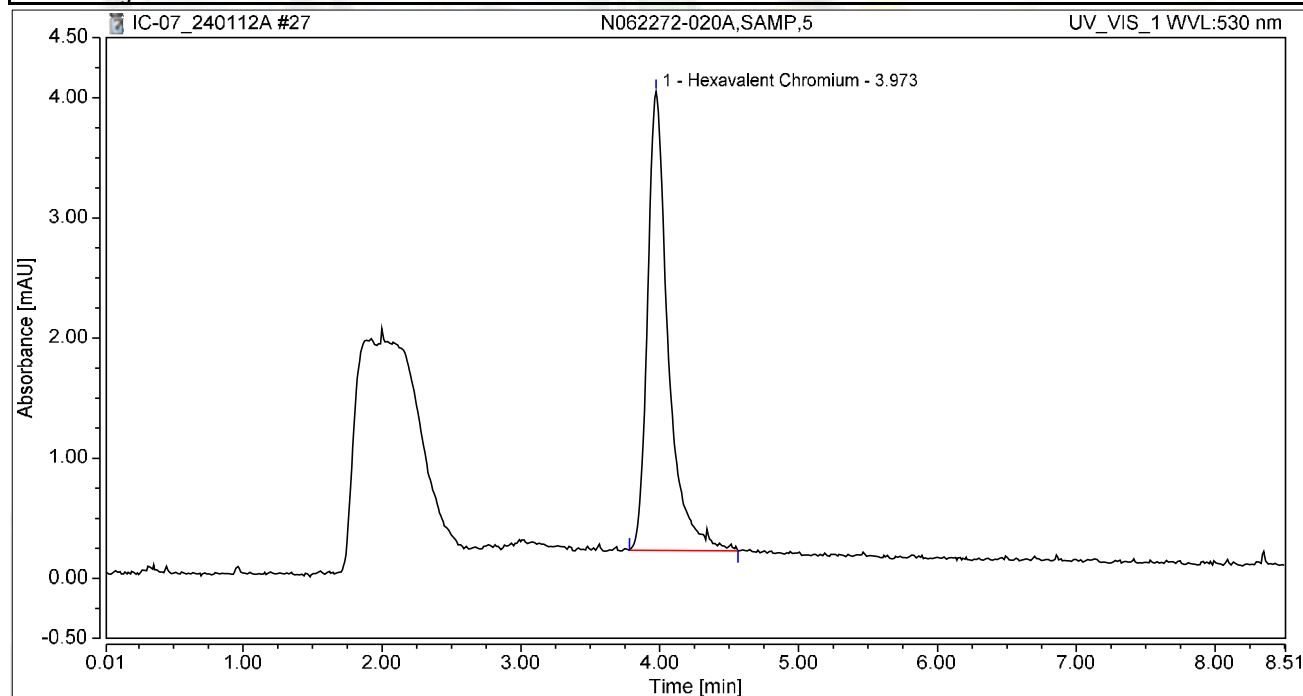


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.552	1.940	100.00	100.00	2.6510
Total:			0.552	1.940	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-020A,SAMP,5	Run Time (min): 8.49
Vial Number:	13	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 14:23	Sample Weight: 1.0000

Chromatogram



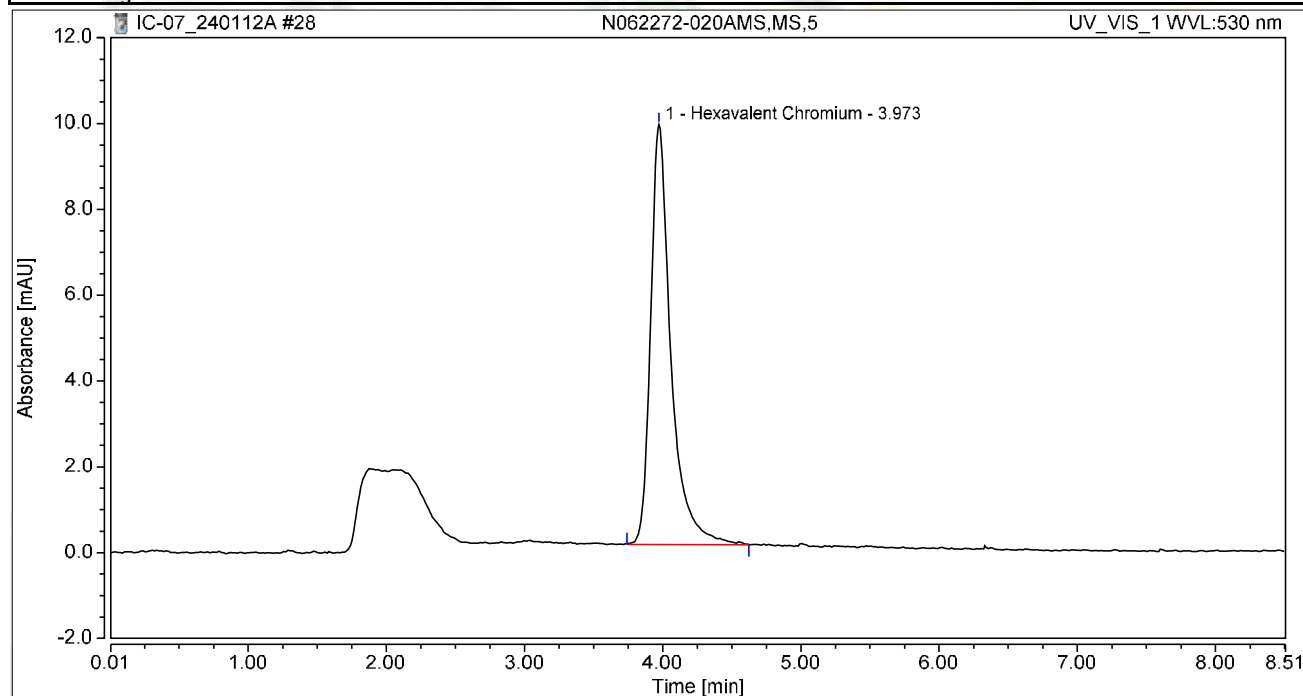
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.655	3.817	100.00	100.00	3.1482
Total:			0.655	3.817	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:32	Sample Weight:	1.0000

Chromatogram



Integration Results

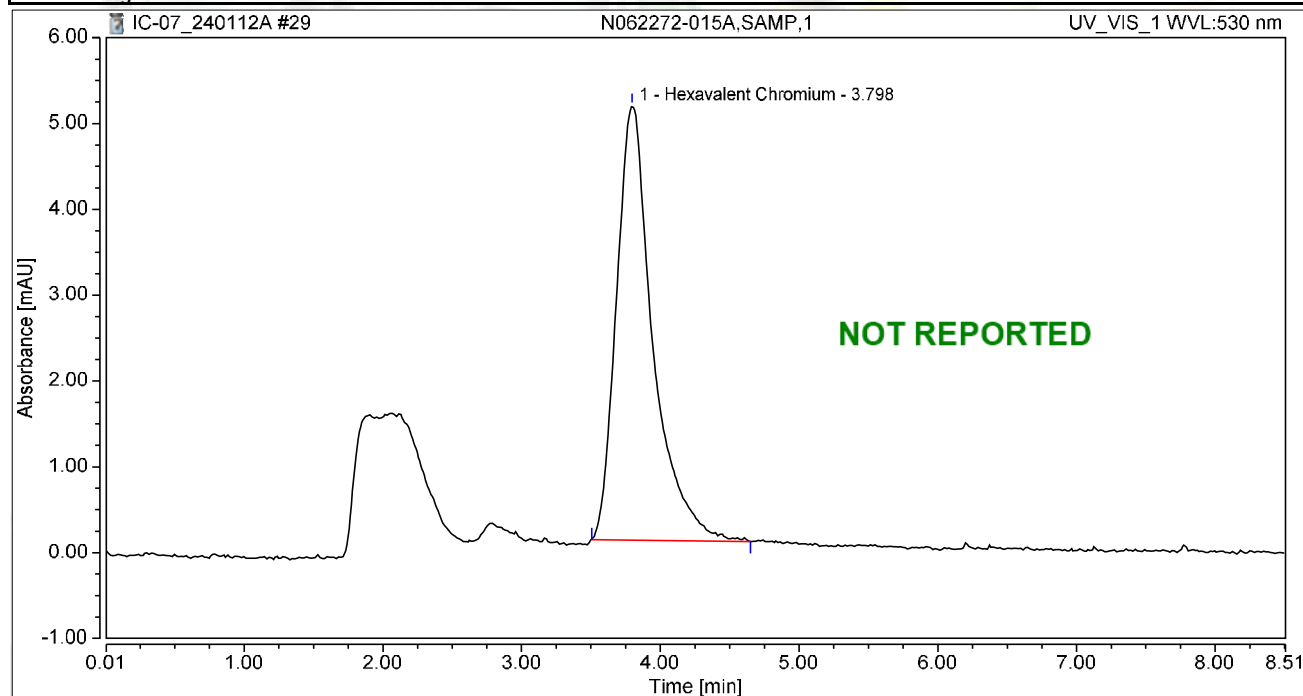
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.664	9.782	100.00	100.00	7.9983
Total:			1.664	9.782	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:42	Sample Weight:	1.0000

Chromatogram



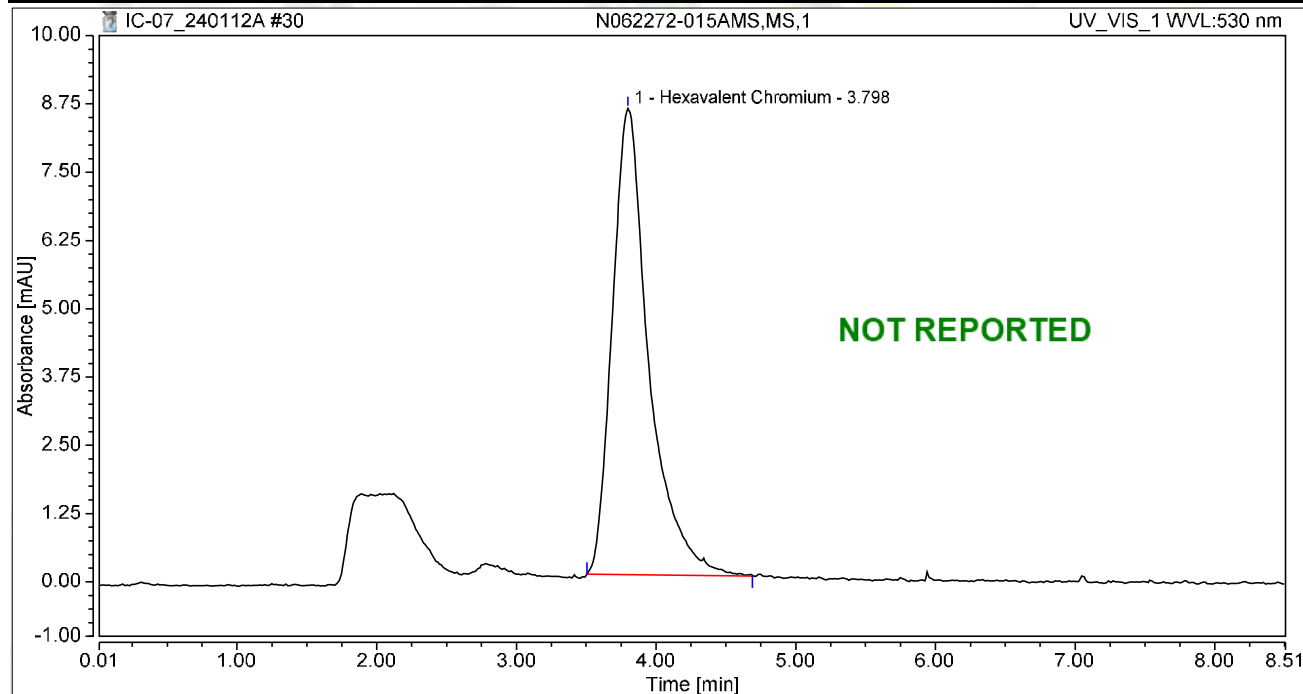
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	1.536	5.063	100.00	100.00	7.3833
Total:			1.536	5.063	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-015AMS,MS,1	Run Time (min): 8.49
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 14:51	Sample Weight: 1.0000

Chromatogram



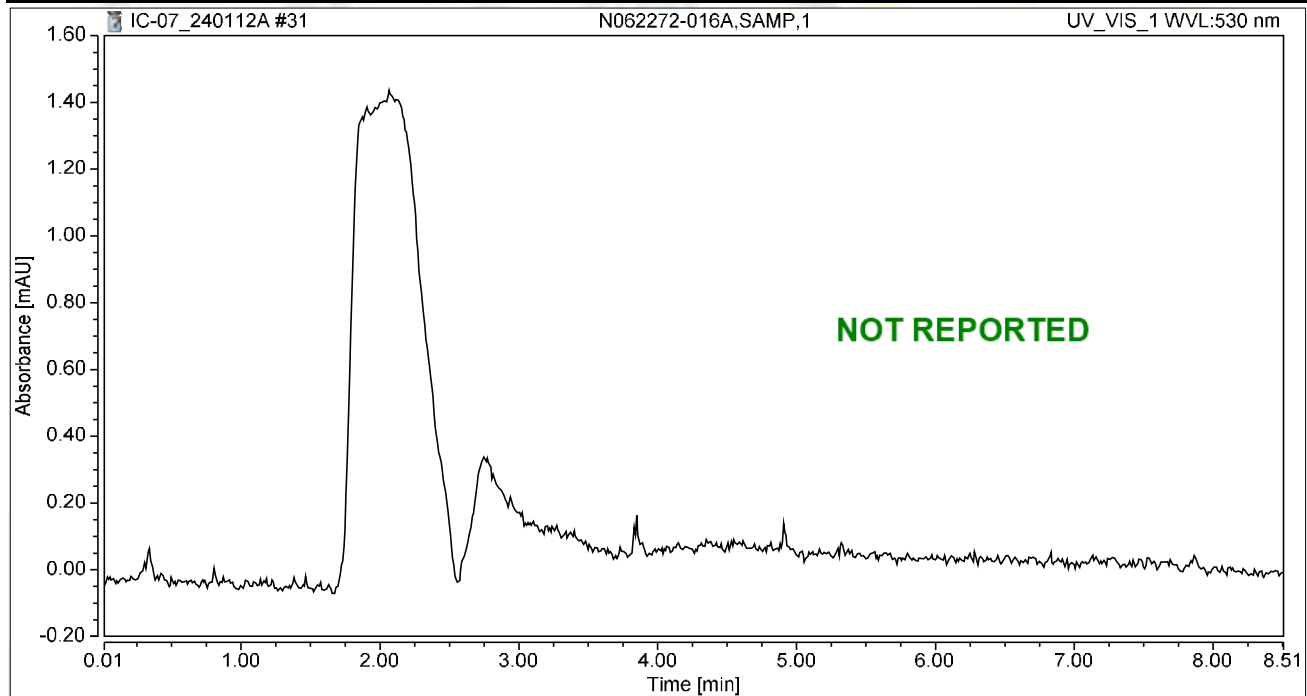
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	2.585	8.529	100.00	100.00	12.4246
Total:			2.585	8.529	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

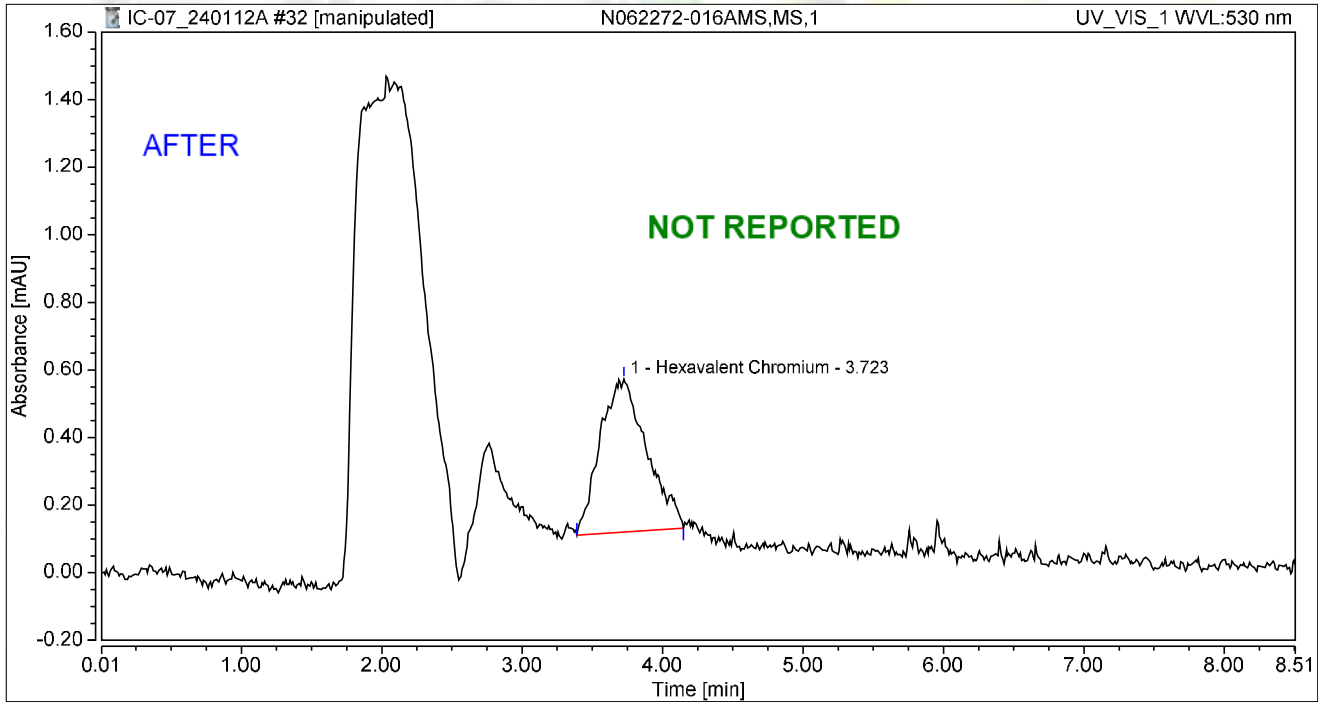
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

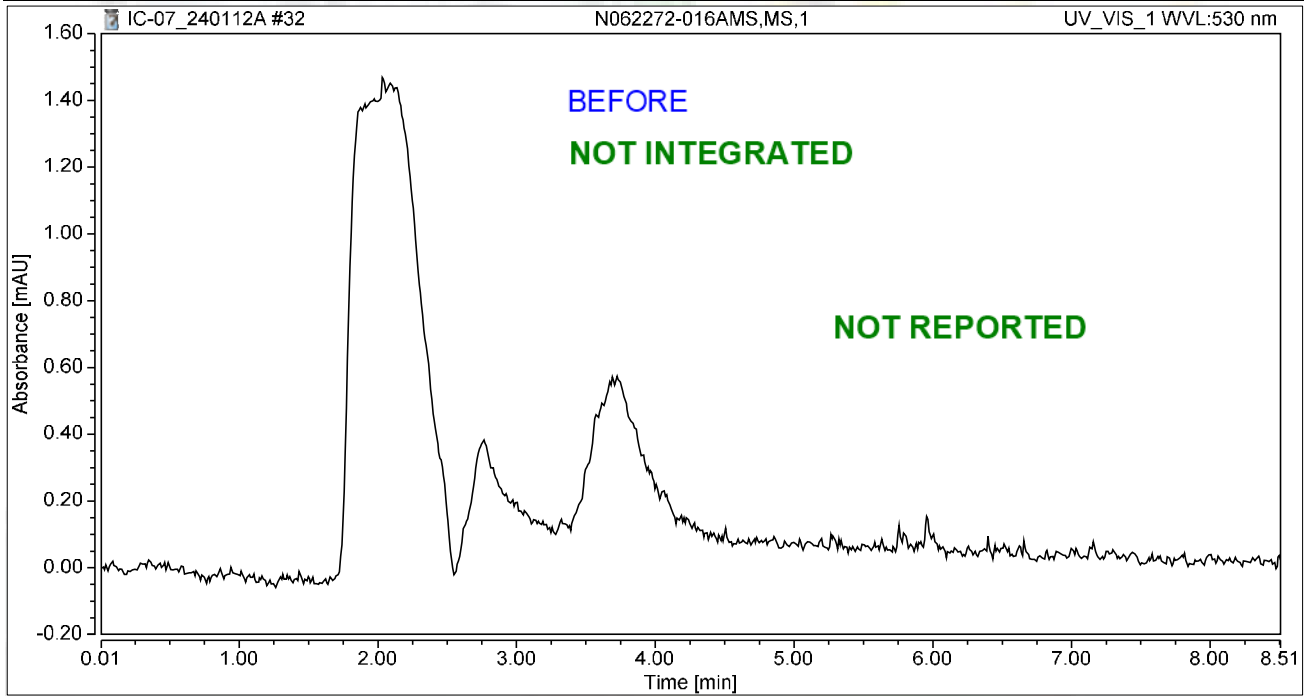
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.723	0.174	0.454	100.00	100.00	0.8365
Total:			0.174	0.454	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

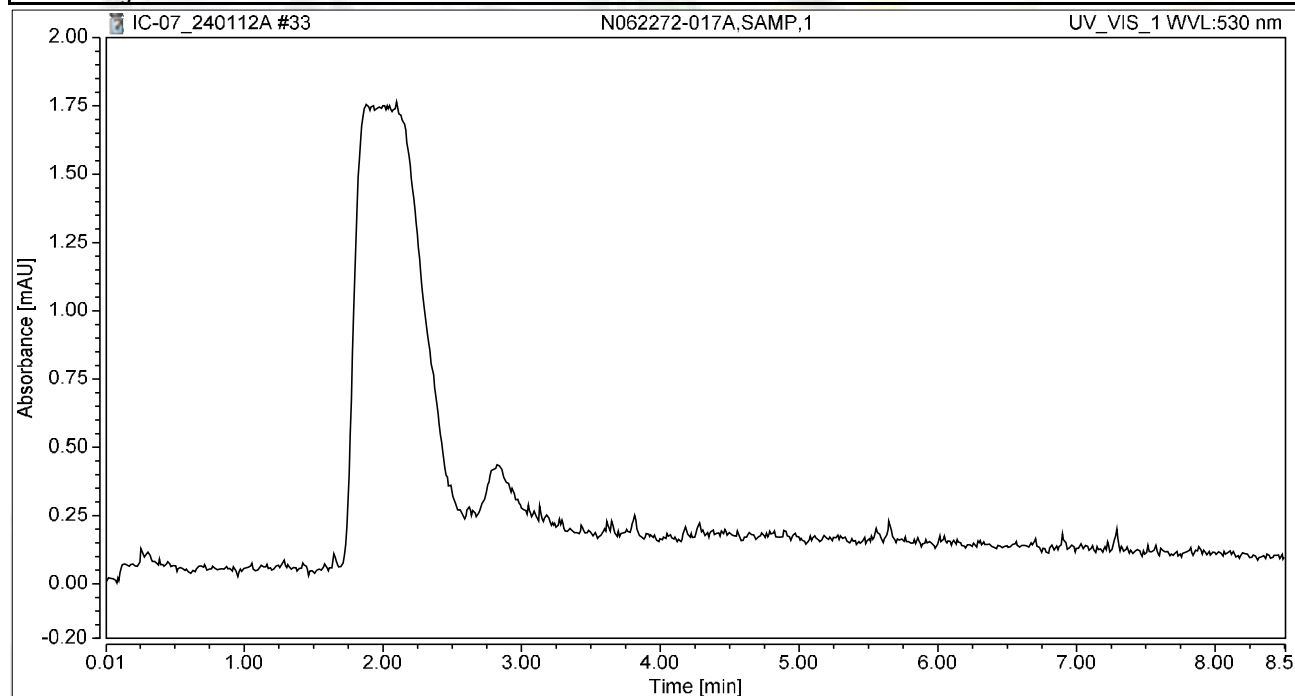
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-017A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:19	Sample Weight:	1.0000

Chromatogram



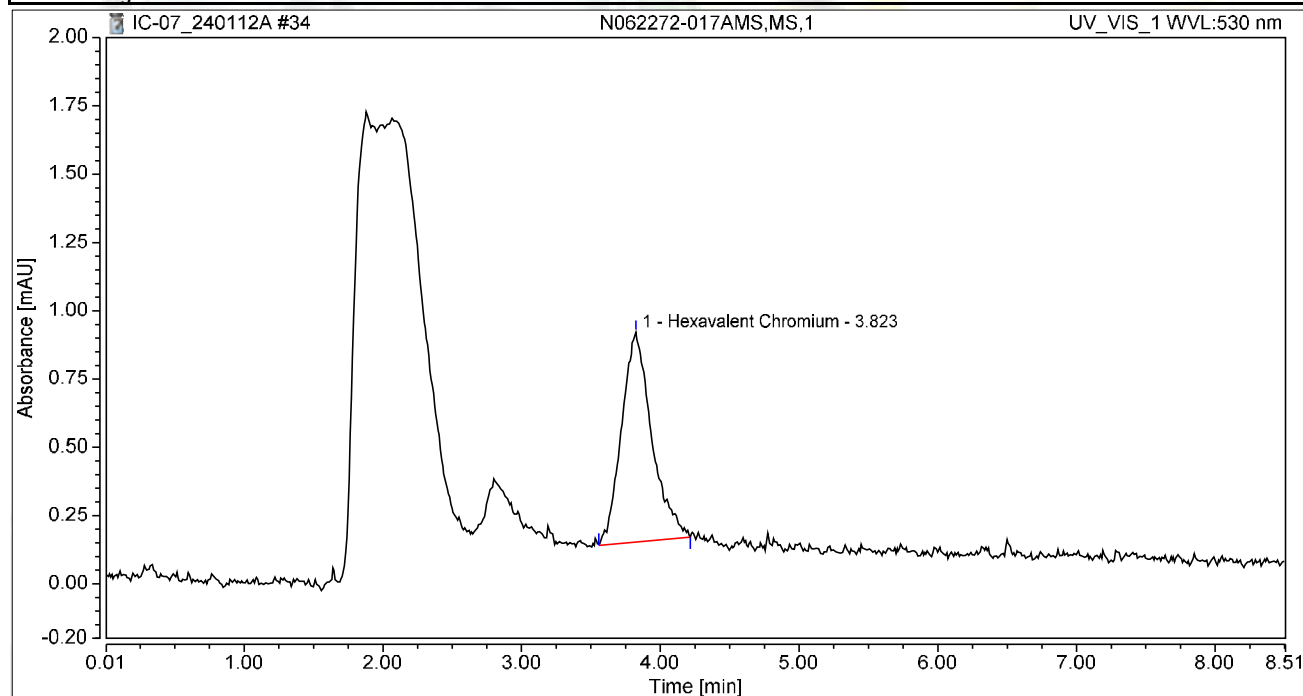
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-017AMS,MS,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 15:29	Sample Weight: 1.0000

Chromatogram



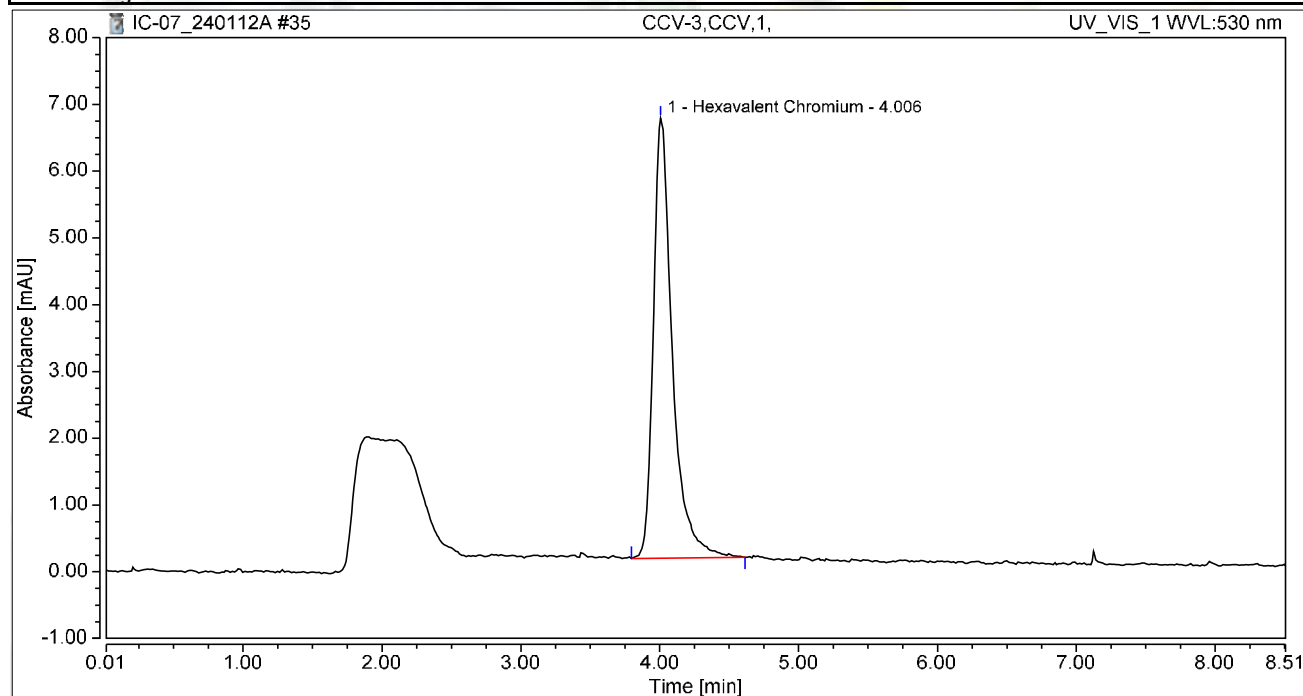
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.193	0.767	100.00	100.00	0.9293
Total:			0.193	0.767	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:38	Sample Weight:	1.0000

Chromatogram



Integration Results

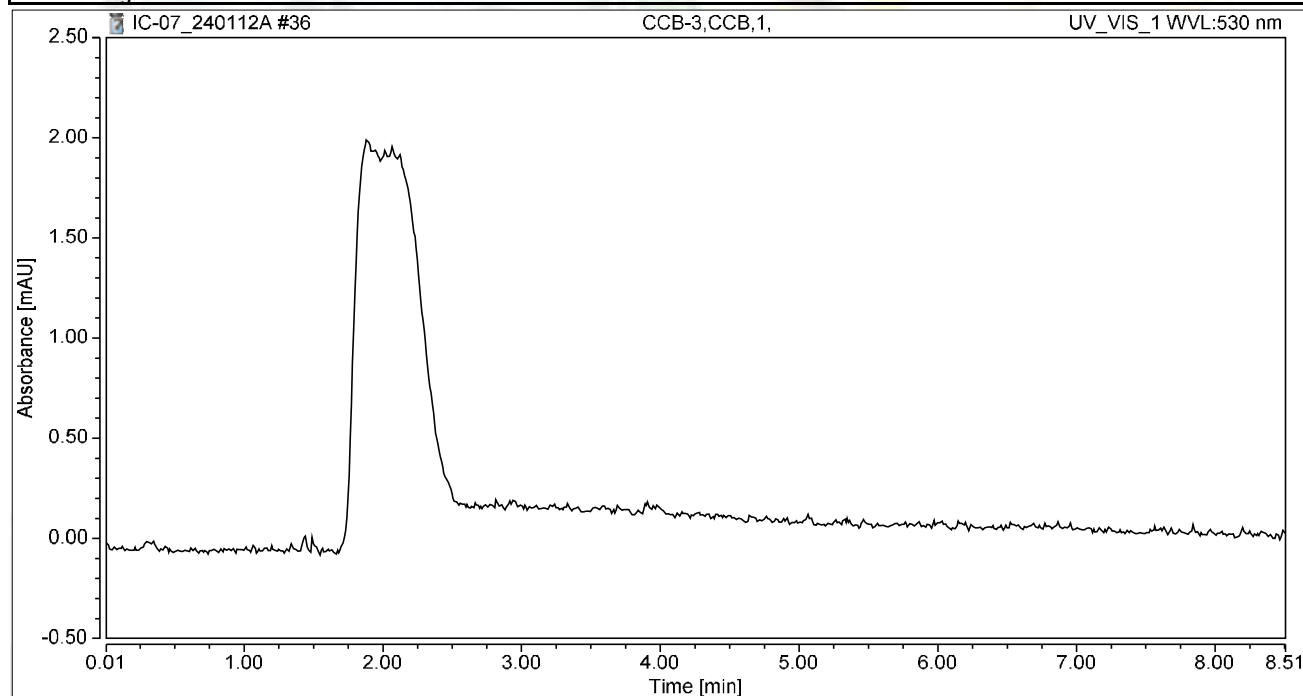
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.045	6.593	100.00	100.00	5.0229
Total:			1.045	6.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

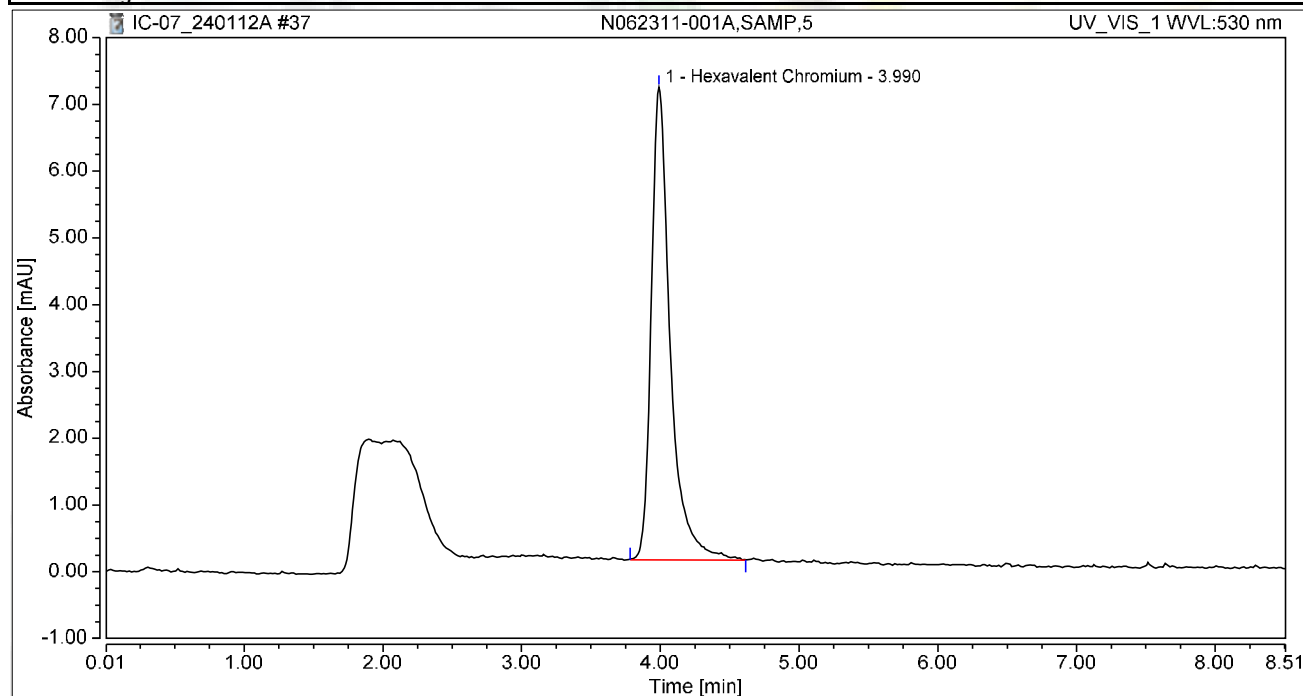
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062311-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:57	Sample Weight:	1.0000

Chromatogram



Integration Results

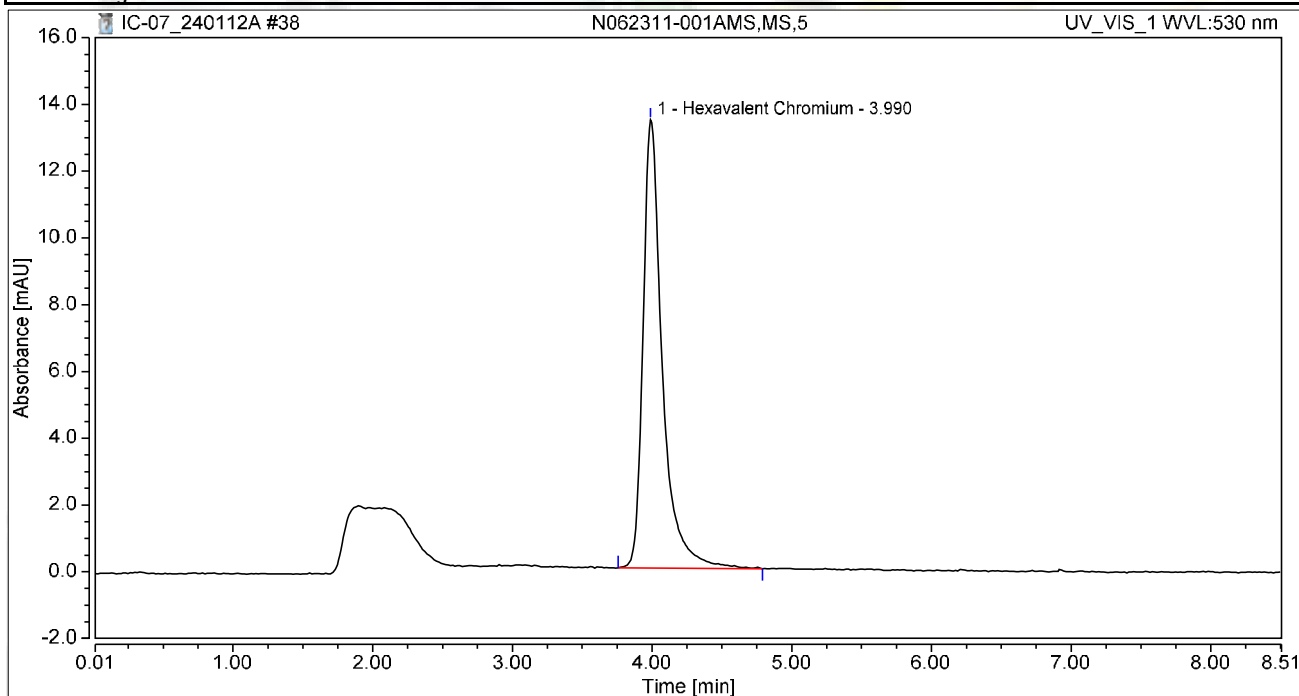
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.127	7.079	100.00	100.00	5.4138
Total:			1.127	7.079	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062311-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

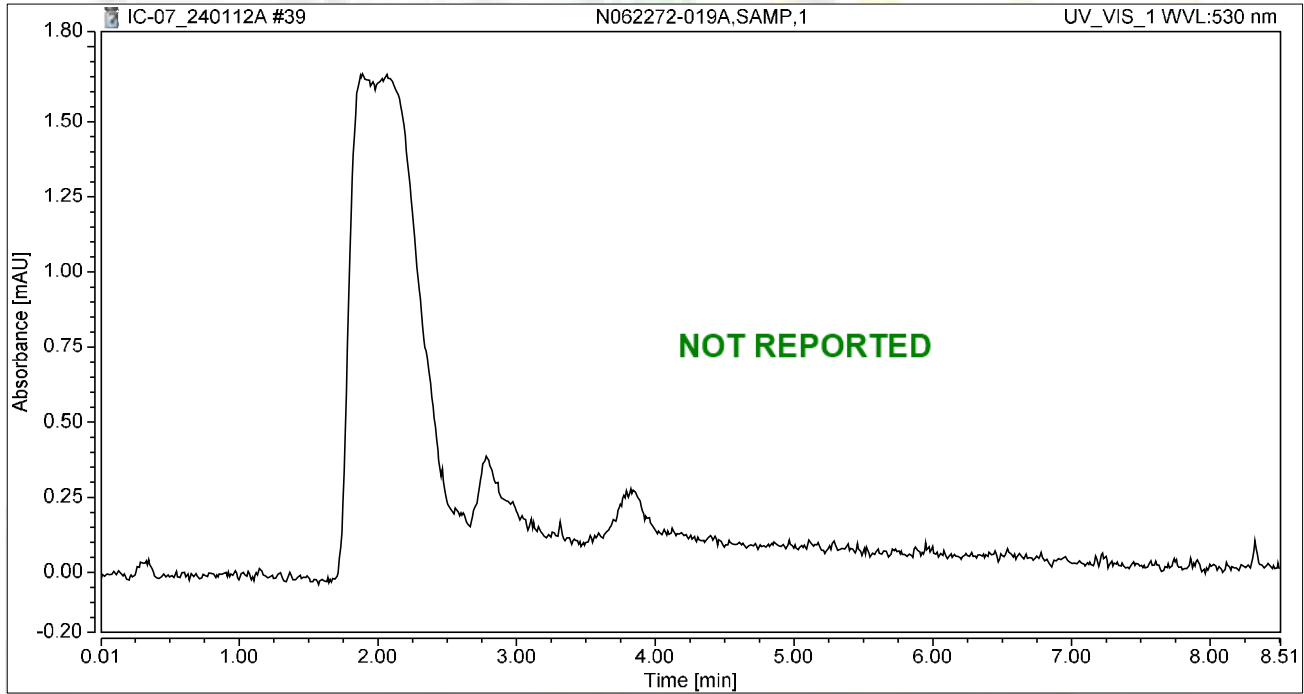
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	2.147	13.427	100.00	100.00	10.3194
Total:			2.147	13.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

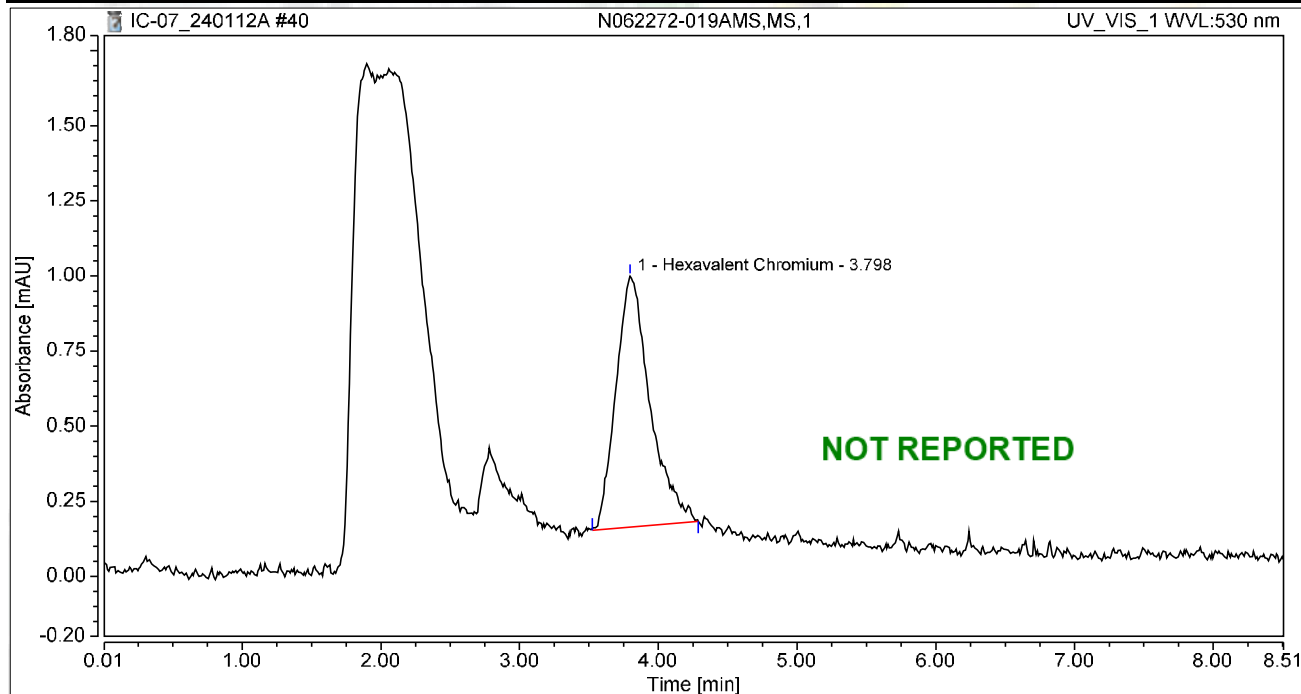
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

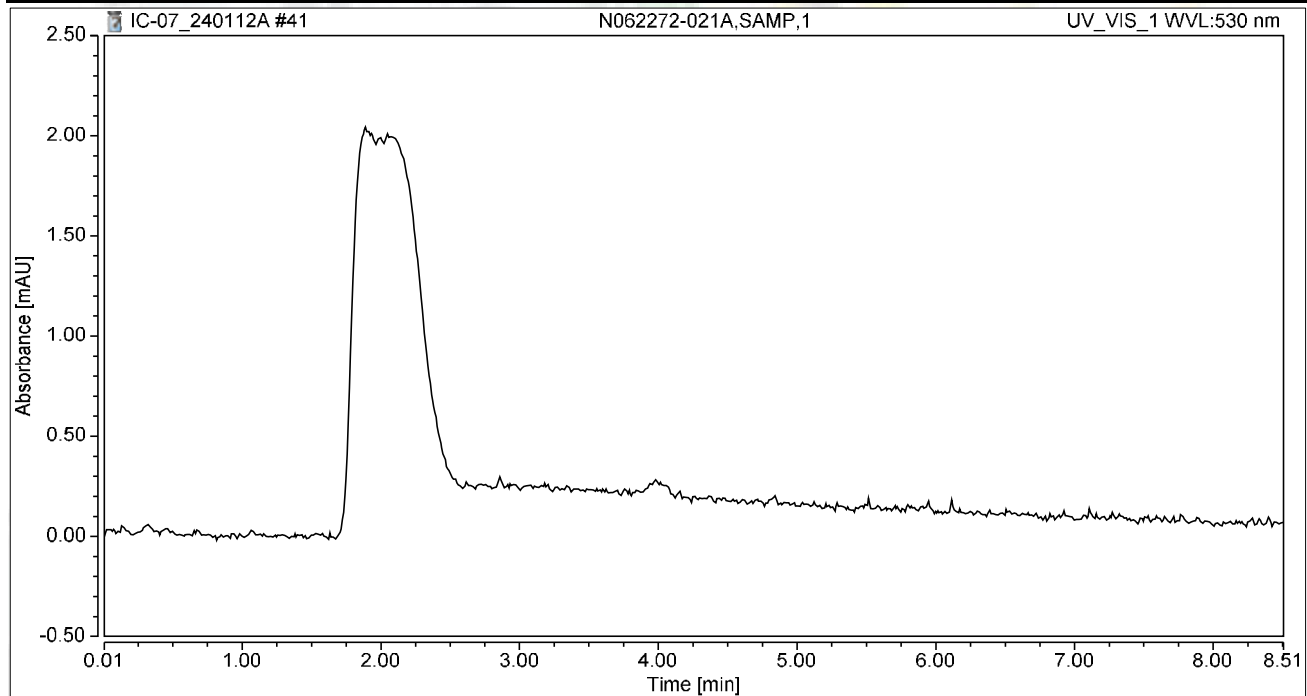
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	0.237	0.835	100.00	100.00	1.1391
Total:			0.237	0.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

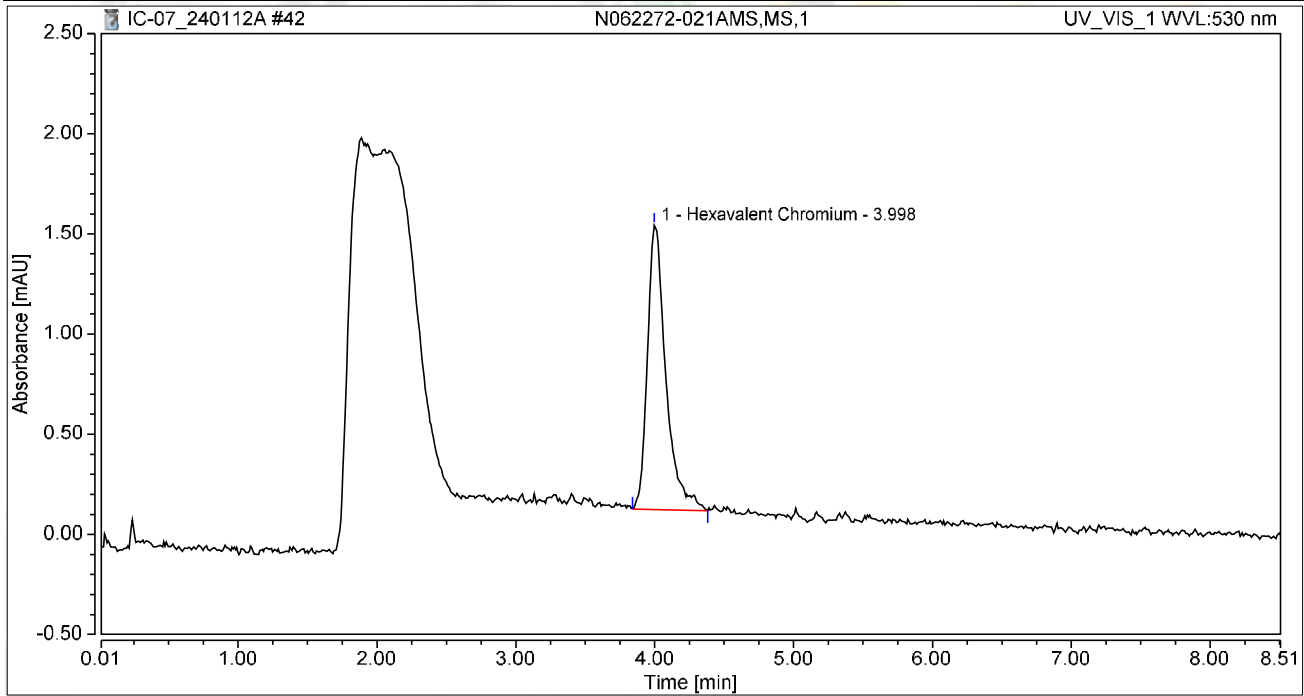
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-021AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:45	Sample Weight:	1.0000

Chromatogram



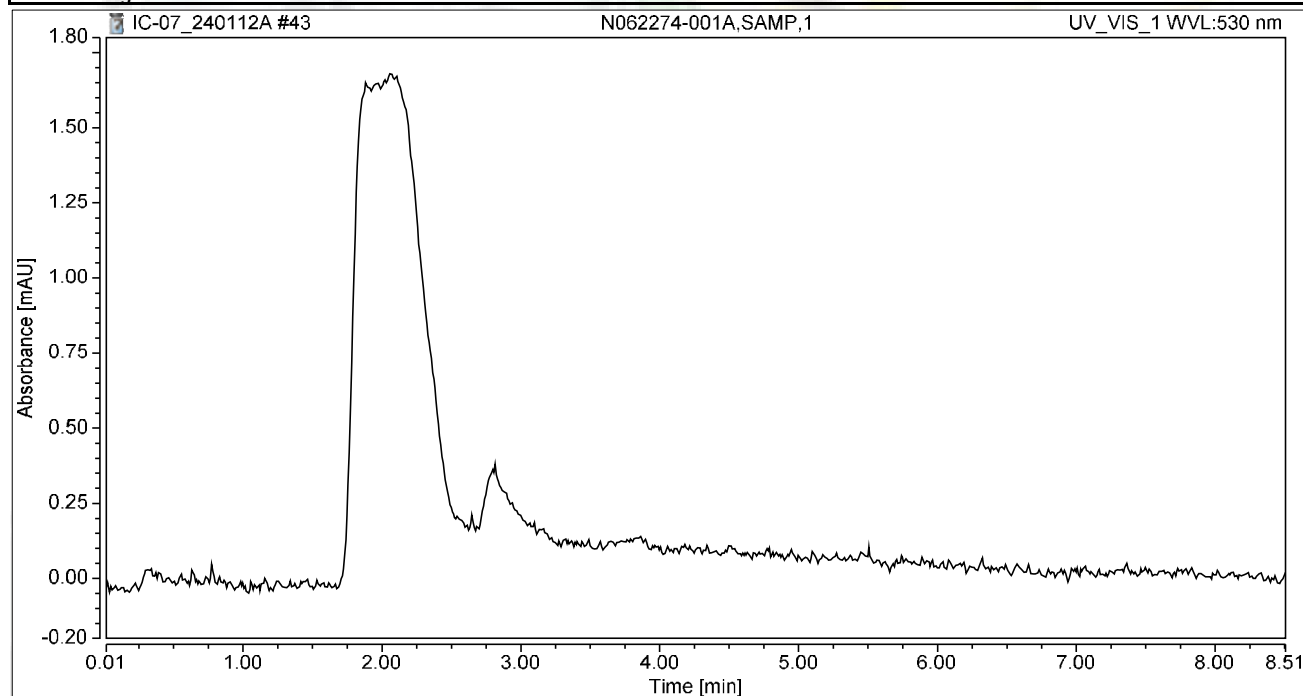
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.219	1.420	100.00	100.00	1.0512
Total:			0.219	1.420	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-001A,SAMP,1	Run Time (min): 8.49
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 16:54	Sample Weight: 1.0000

Chromatogram

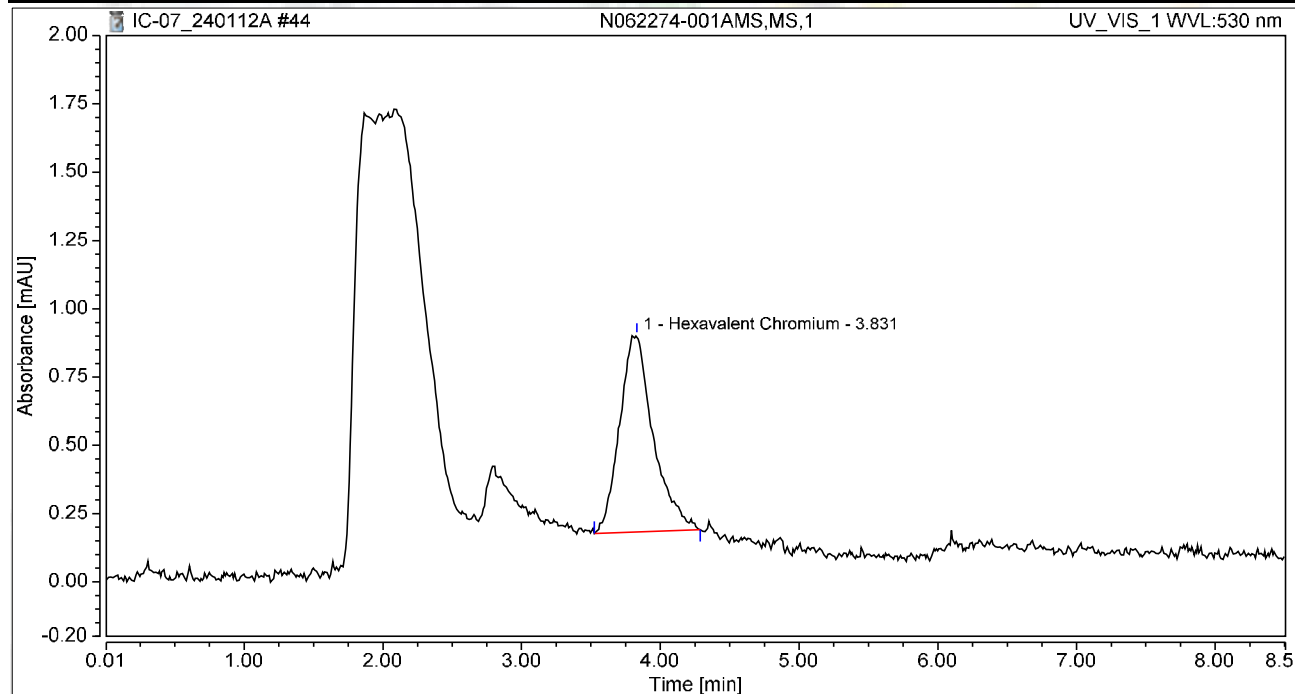


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 17:06	Sample Weight: 1.0000

Chromatogram



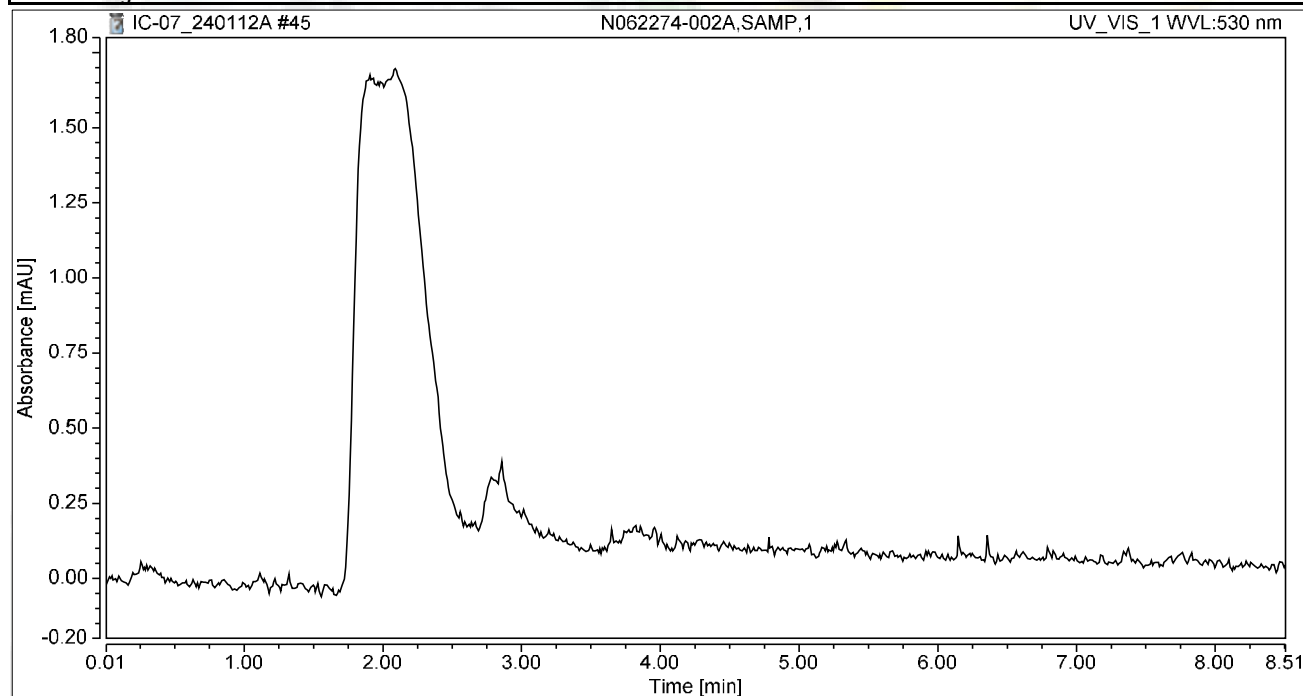
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.202	0.720	100.00	100.00	0.9715
Total:			0.202	0.720	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:17	Sample Weight:	1.0000

Chromatogram



Integration Results

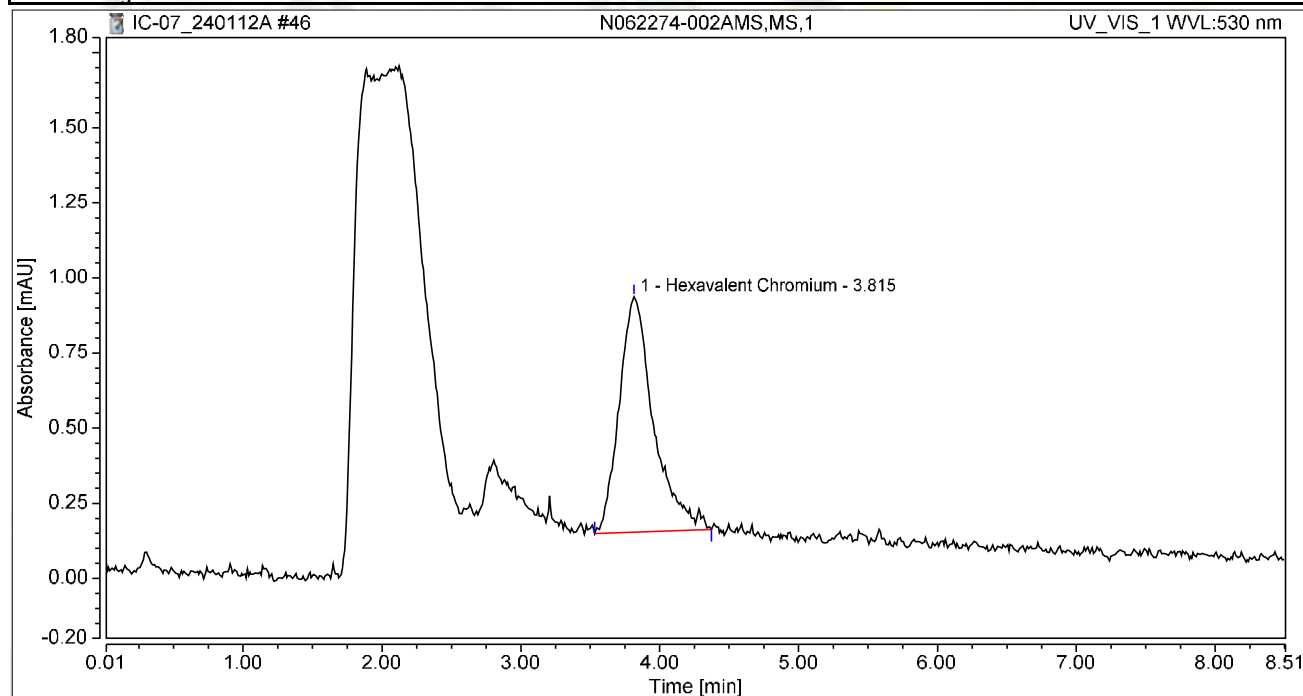
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:26	Sample Weight:	1.0000

Chromatogram



Integration Results

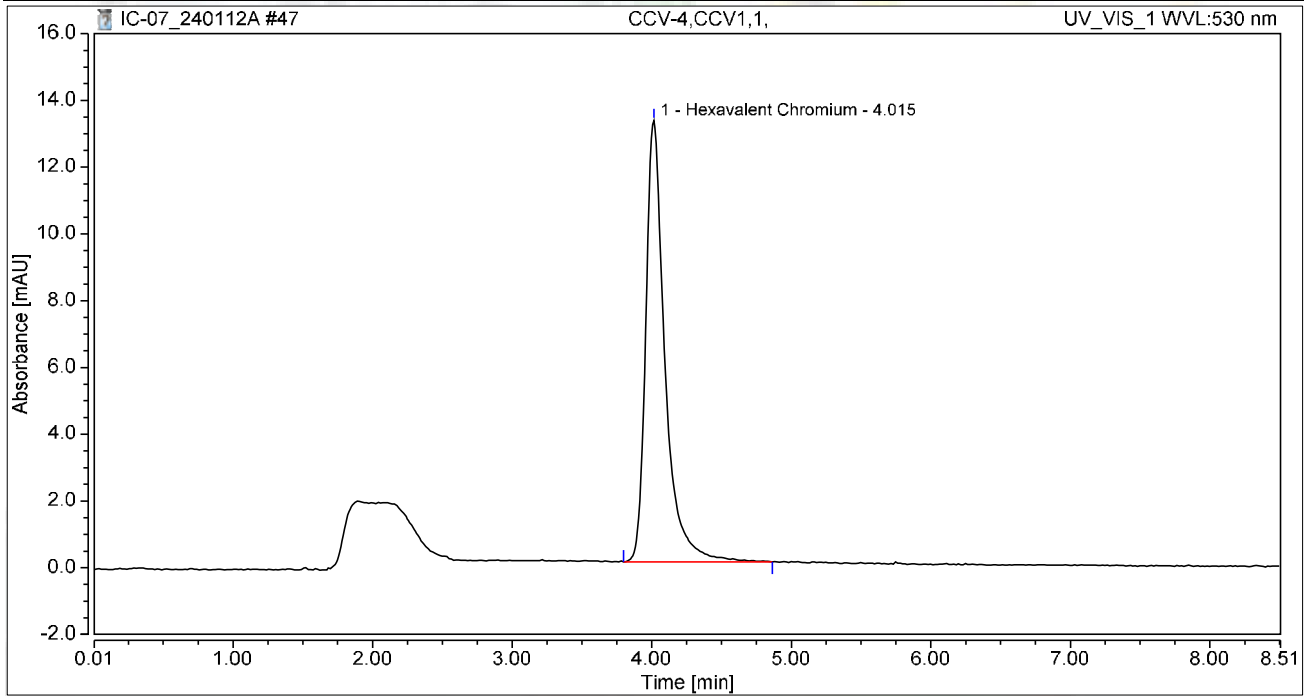
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.225	0.784	100.00	100.00	1.0818
Total:			0.225	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:36	Sample Weight:	1.0000

Chromatogram



Integration Results

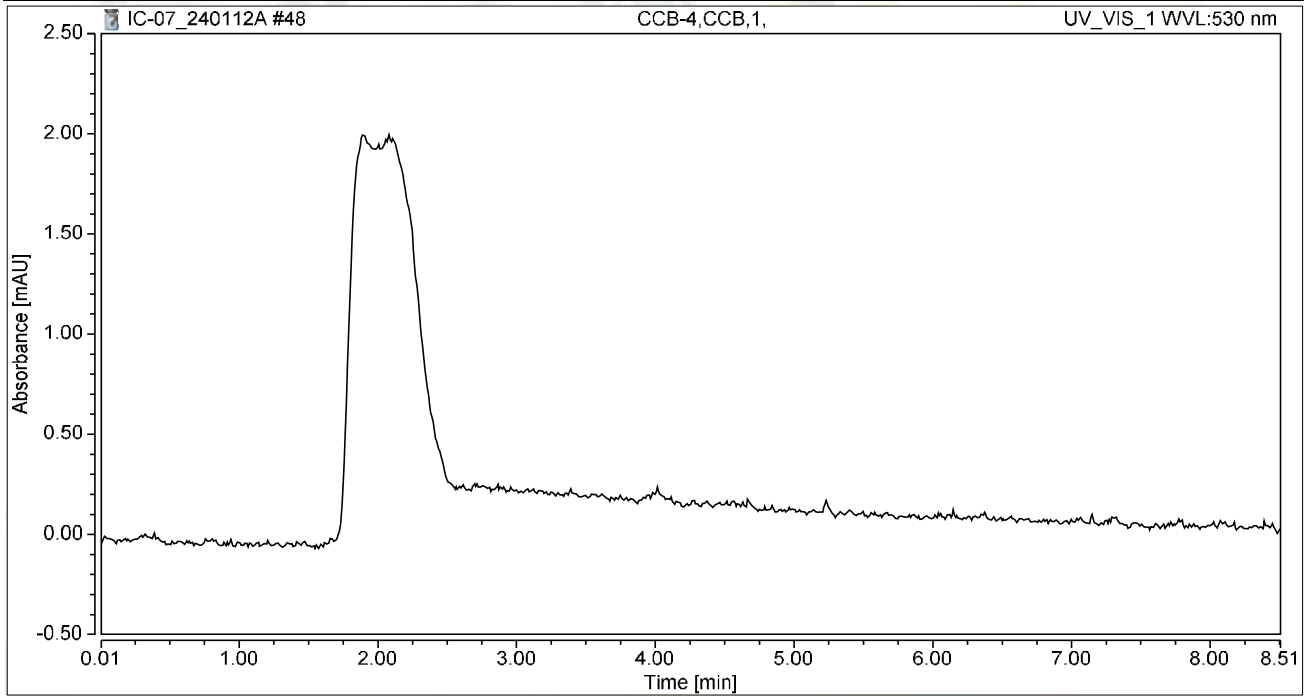
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.118	13.217	100.00	100.00	10.1786
Total:			2.118	13.217	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:45	Sample Weight:	1.0000

Chromatogram



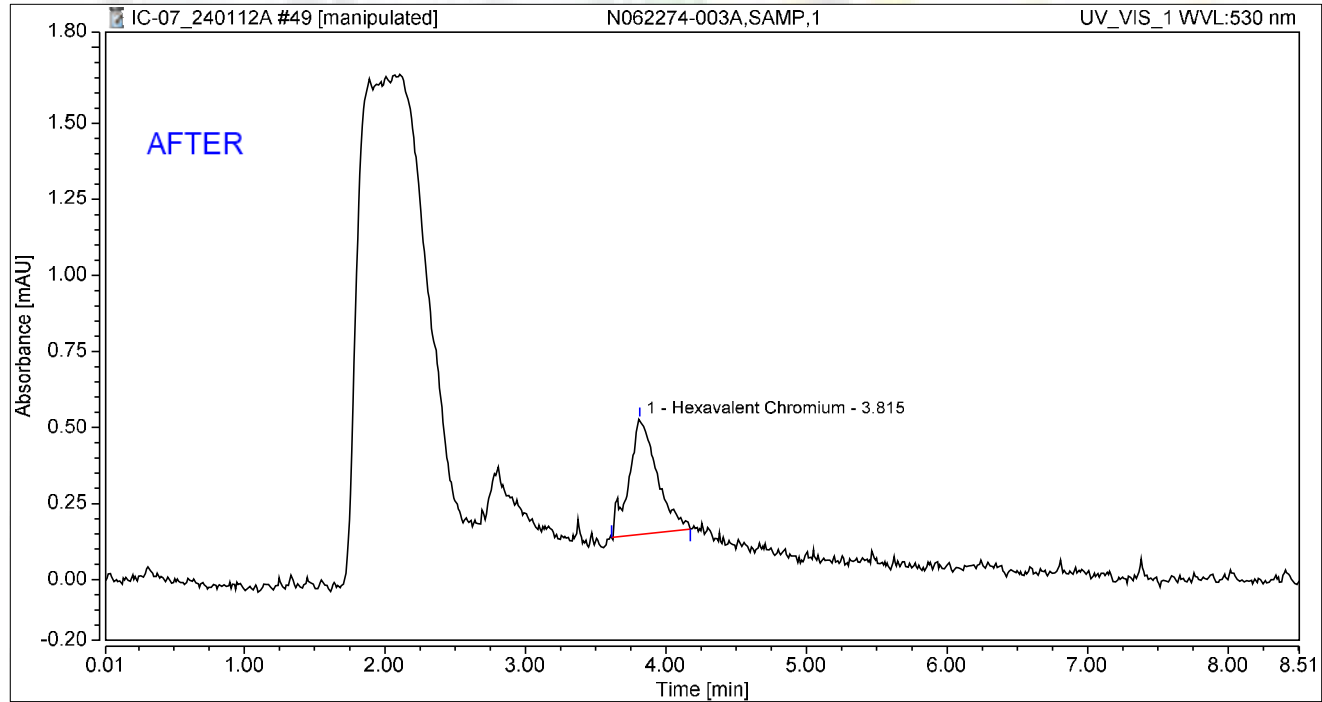
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-003A,SAMP,1	Run Time (min): 8.49
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 17:54	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.088	0.378	100.00	100.00	0.4232
Total:			0.088	0.378	100.00	100.00	

Reviewed by:

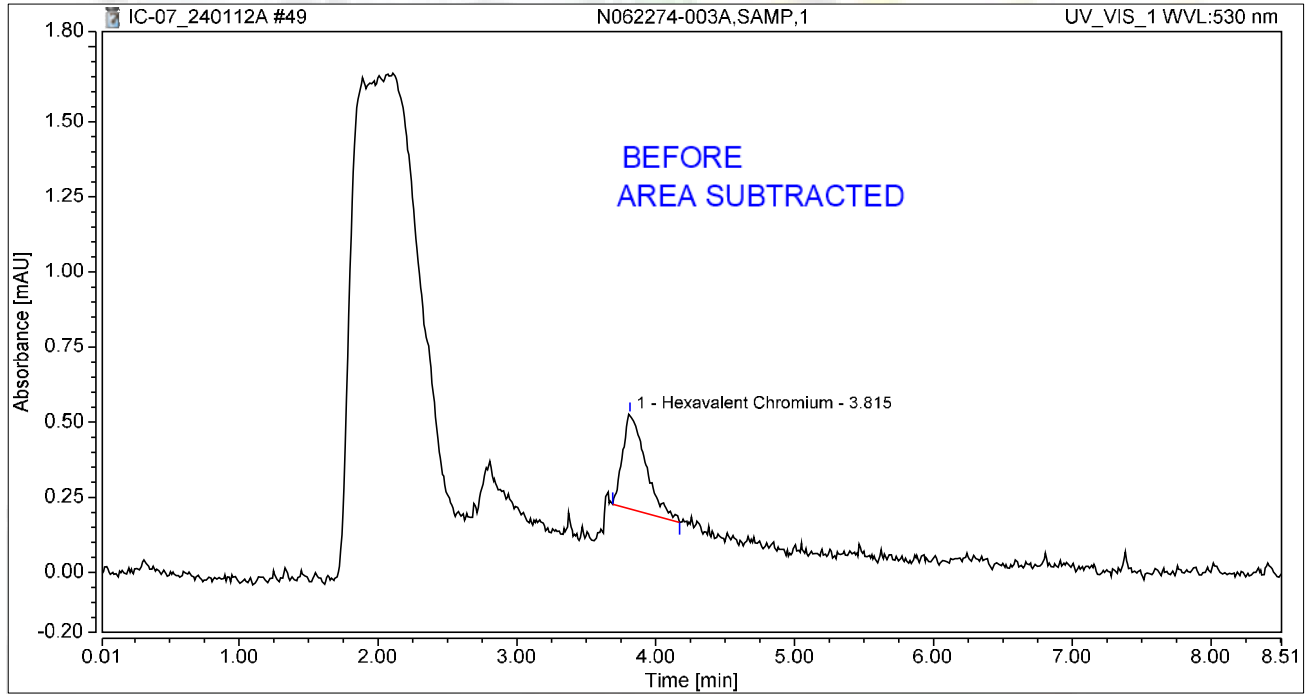
JRB 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062274-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:54	Sample Weight:	1.0000

Chromatogram



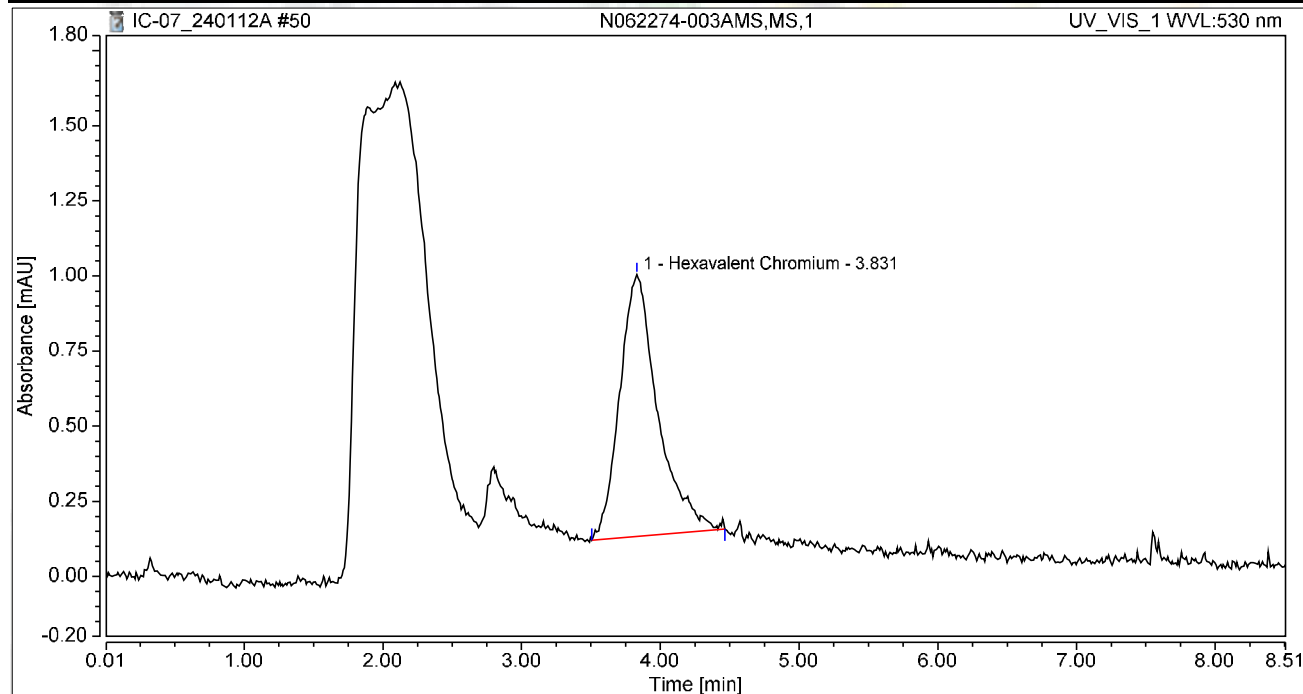
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.062	0.315	100.00	100.00	0.2964
Total:			0.062	0.315	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 18:04	Sample Weight: 1.0000

Chromatogram

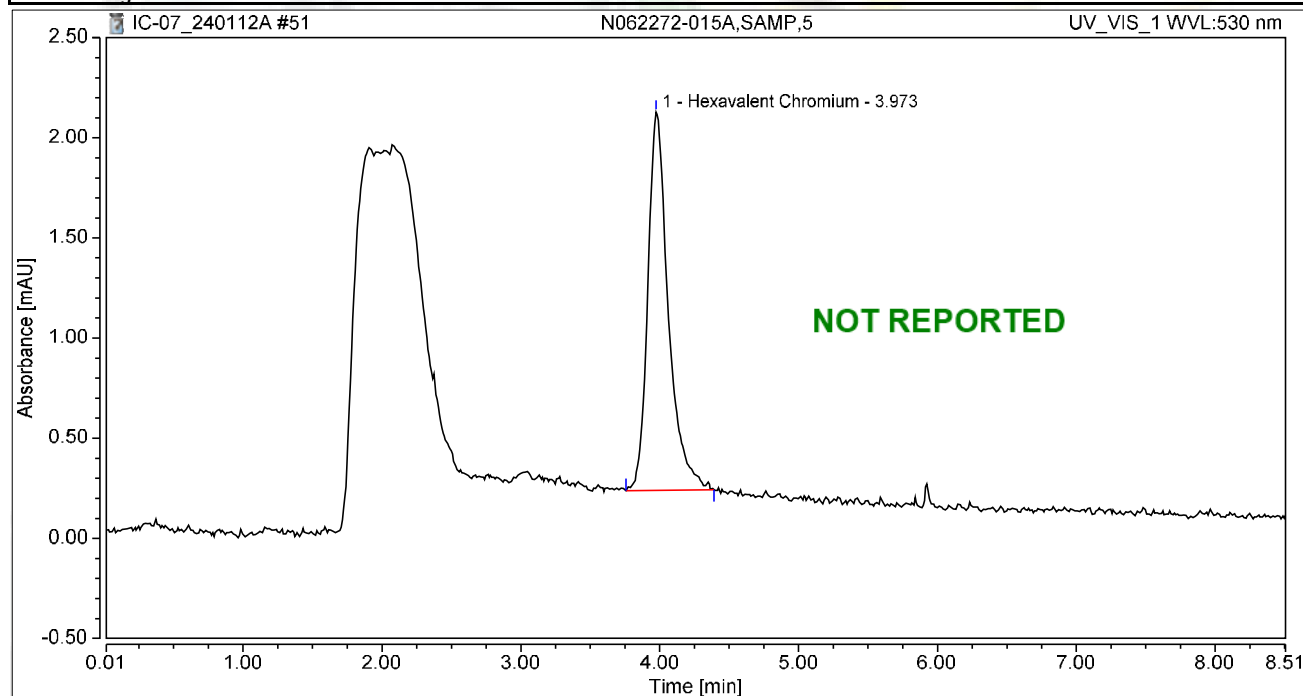


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.277	0.872	100.00	100.00	1.3324
Total:			0.277	0.872	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-015A,SAMP,5	Run Time (min): 8.49
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 18:13	Sample Weight: 1.0000

Chromatogram



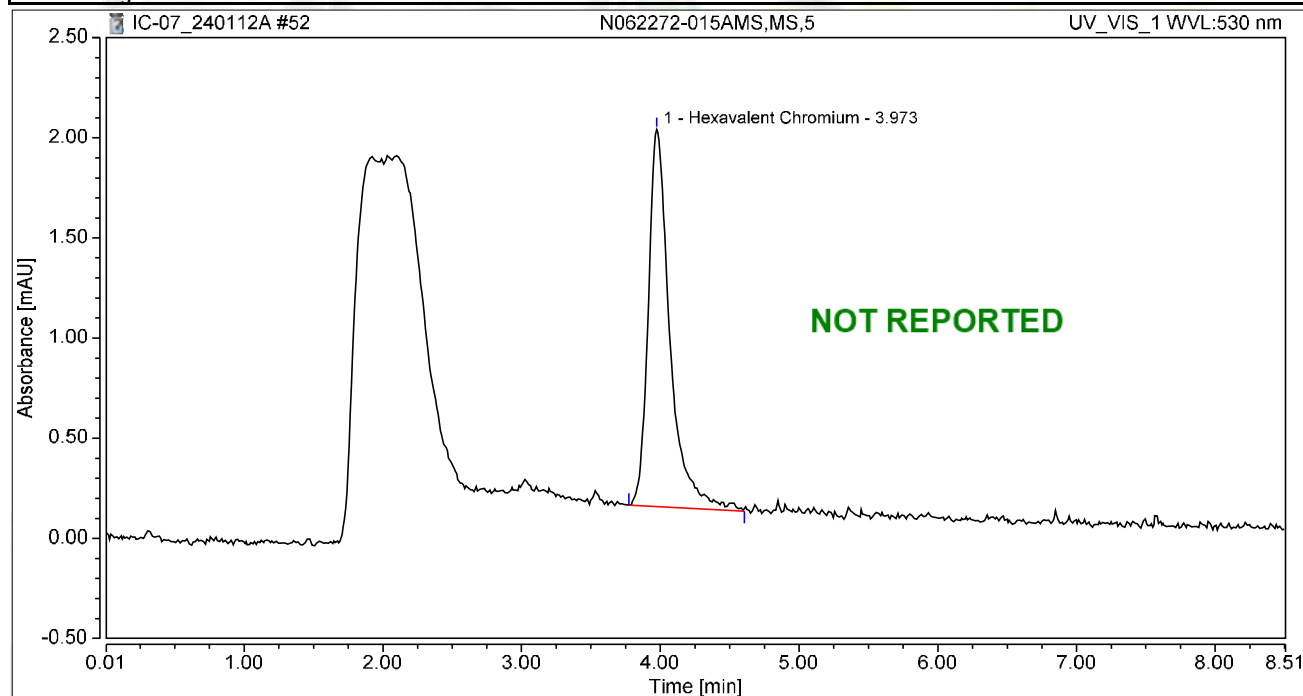
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.323	1.887	100.00	100.00	1.5505
Total:			0.323	1.887	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:23	Sample Weight:	1.0000

Chromatogram



Integration Results

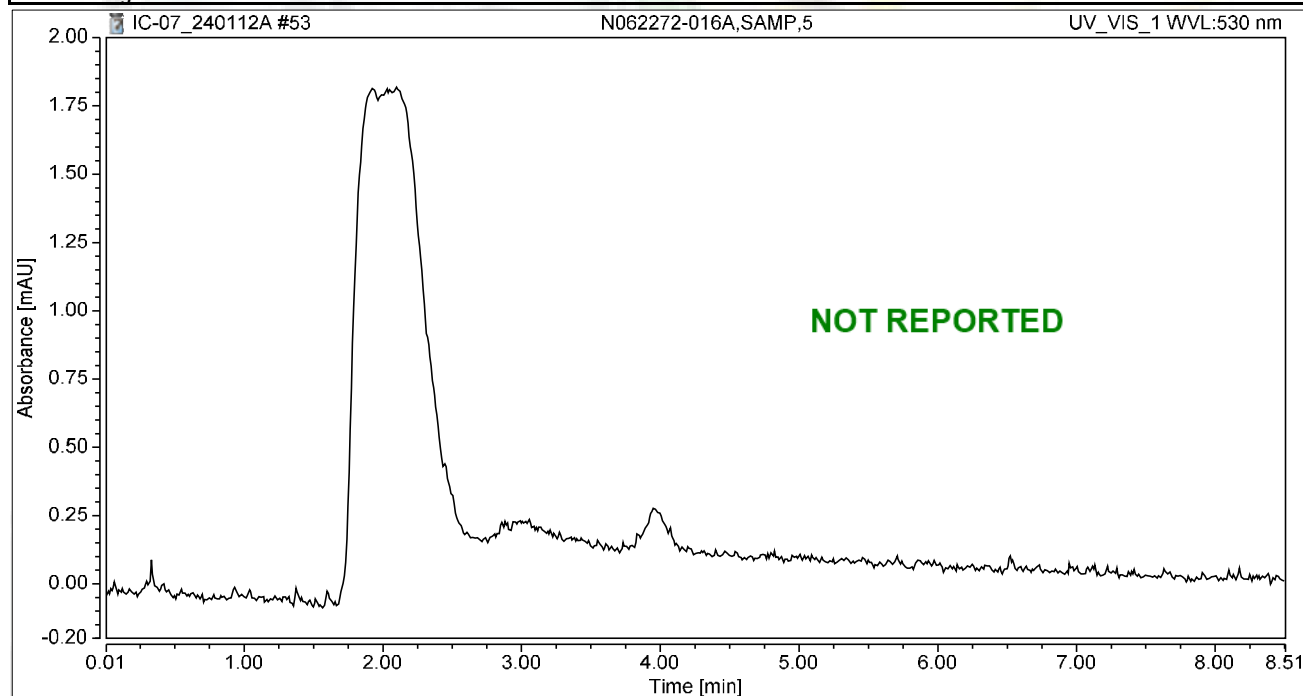
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.341	1.883	100.00	100.00	1.6404
Total:			0.341	1.883	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:32	Sample Weight:	1.0000

Chromatogram



Integration Results

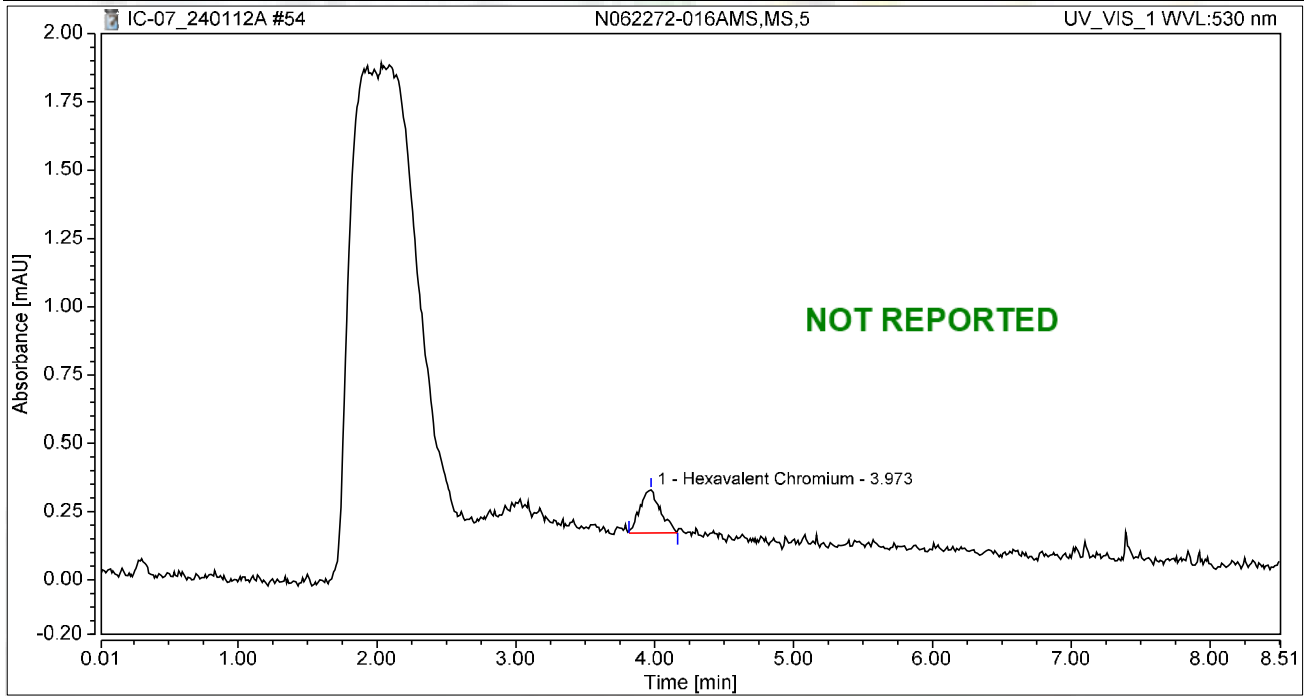
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016AMS,MS,5	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:42	Sample Weight:	1.0000

Chromatogram



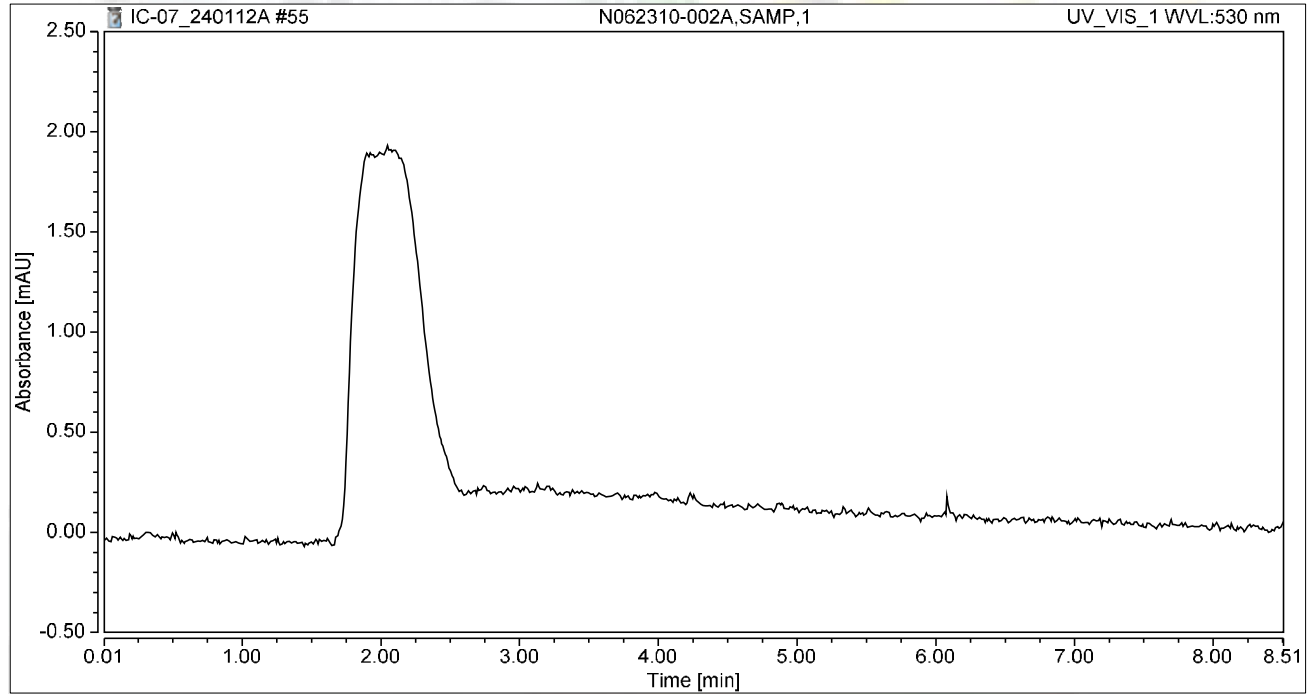
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.027	0.158	100.00	100.00	0.1292
Total:			0.027	0.158	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062310-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 18:51	Sample Weight: 1.0000

Chromatogram



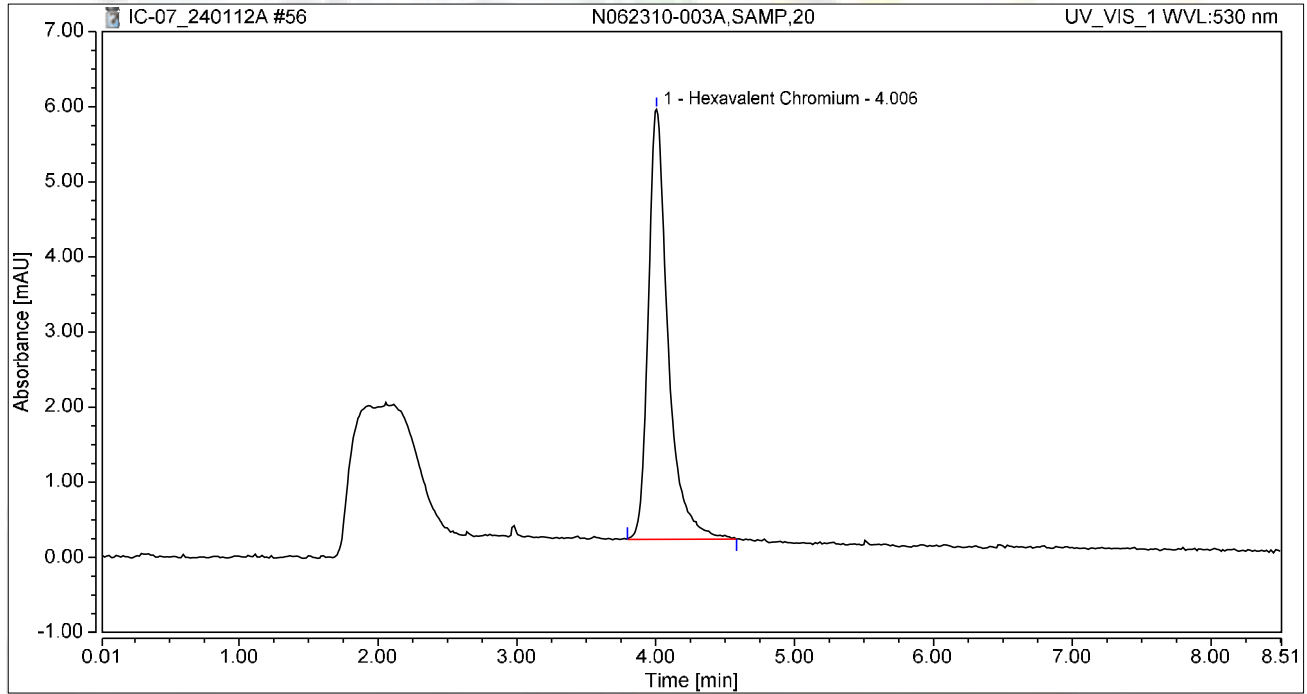
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-003A,SAMP,20	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:01	Sample Weight:	1.0000

Chromatogram



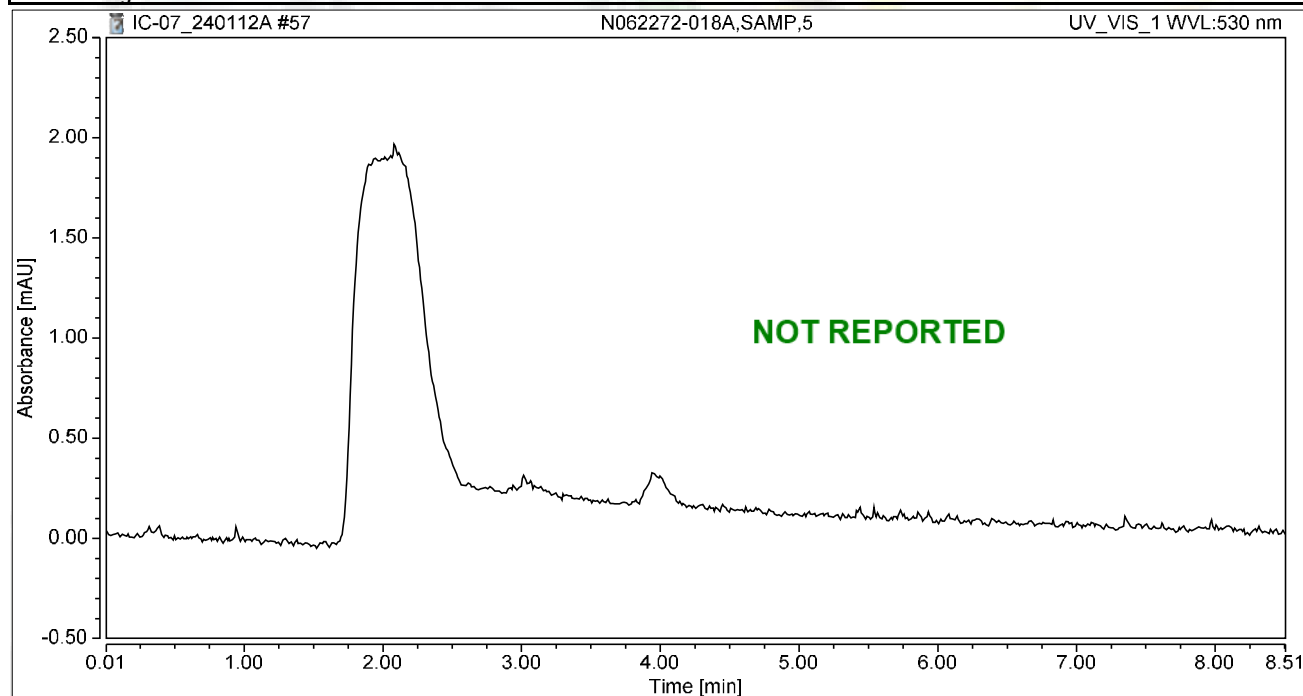
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.940	5.720	100.00	100.00	4.5189
Total:			0.940	5.720	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-018A,SAMP,5	Run Time (min): 8.50
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 19:10	Sample Weight: 1.0000

Chromatogram

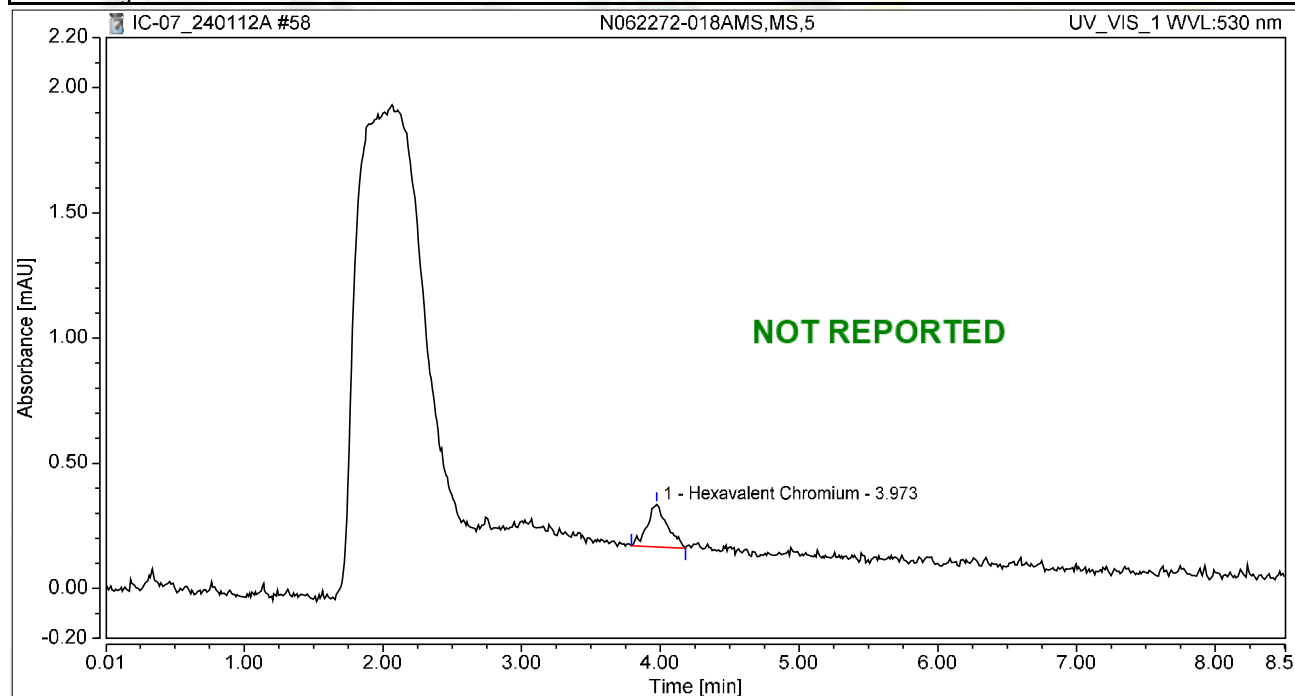


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-018AMS,MS,5	Run Time (min): 8.50
Vial Number:	15	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 19:20	Sample Weight: 1.0000

Chromatogram



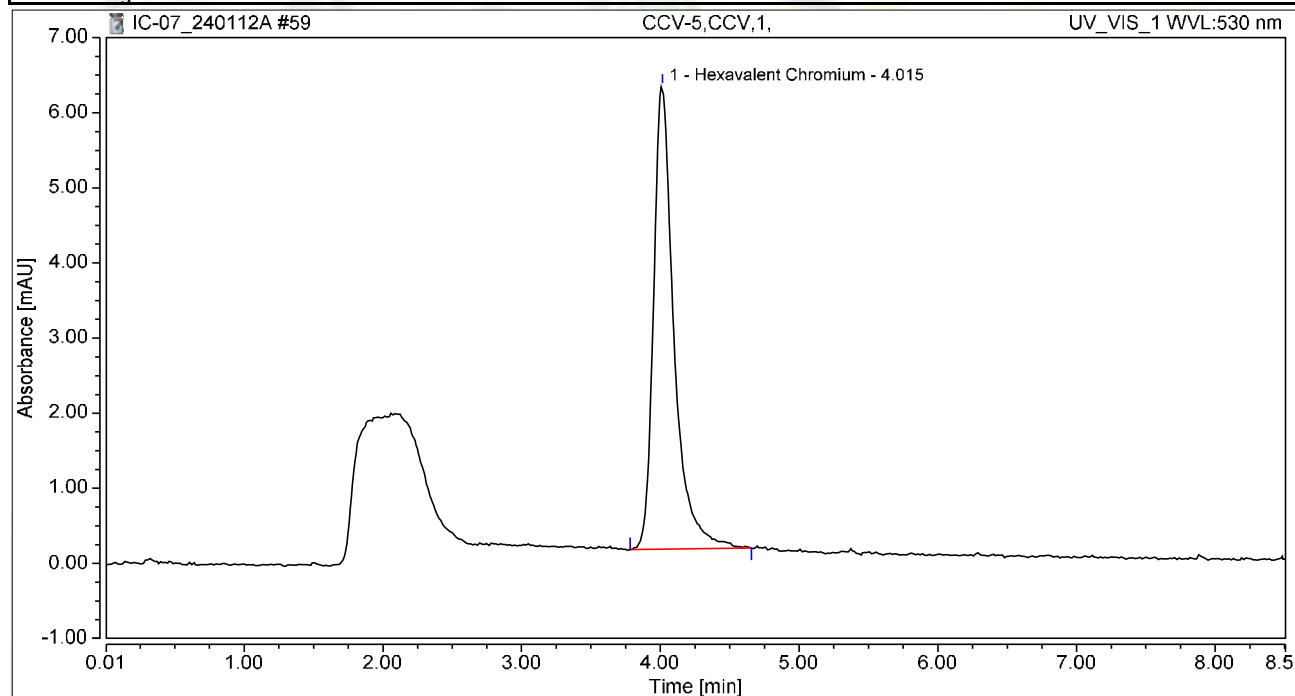
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.029	0.171	100.00	100.00	0.1375
Total:			0.029	0.171	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:29	Sample Weight:	1.0000

Chromatogram



Integration Results

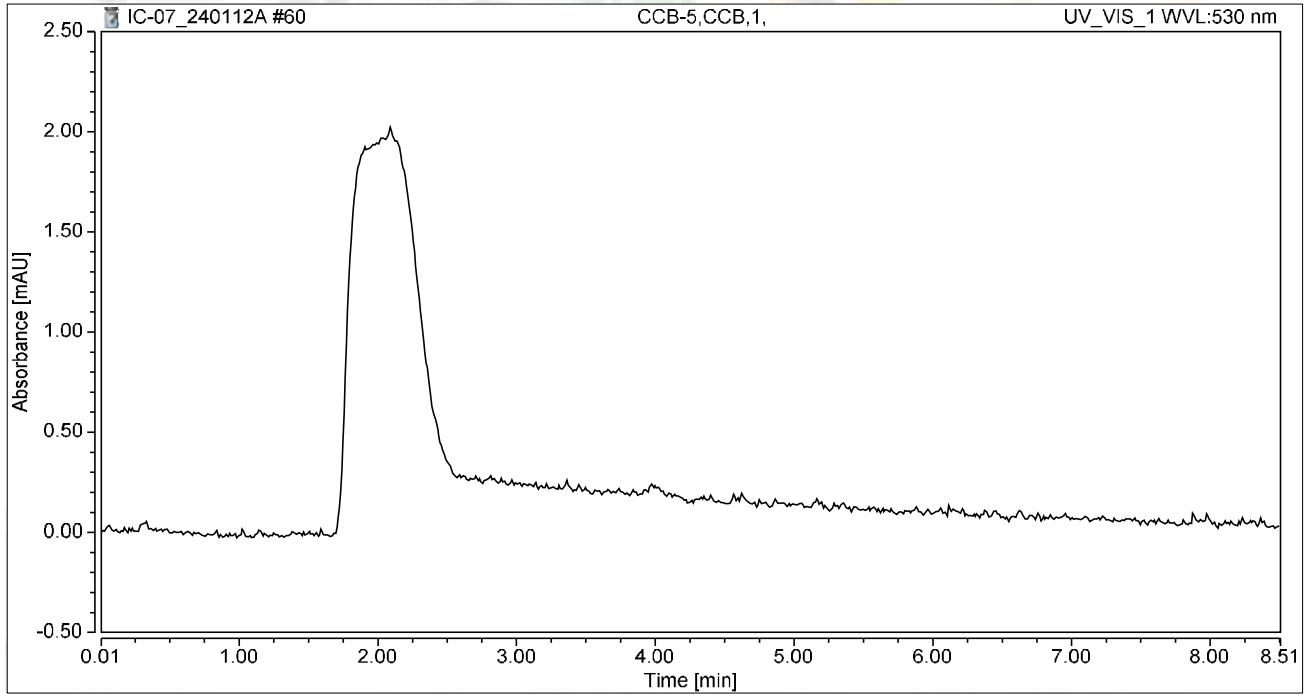
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.056	6.167	100.00	100.00	5.0733
Total:			1.056	6.167	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:39	Sample Weight:	1.0000

Chromatogram



Integration Results

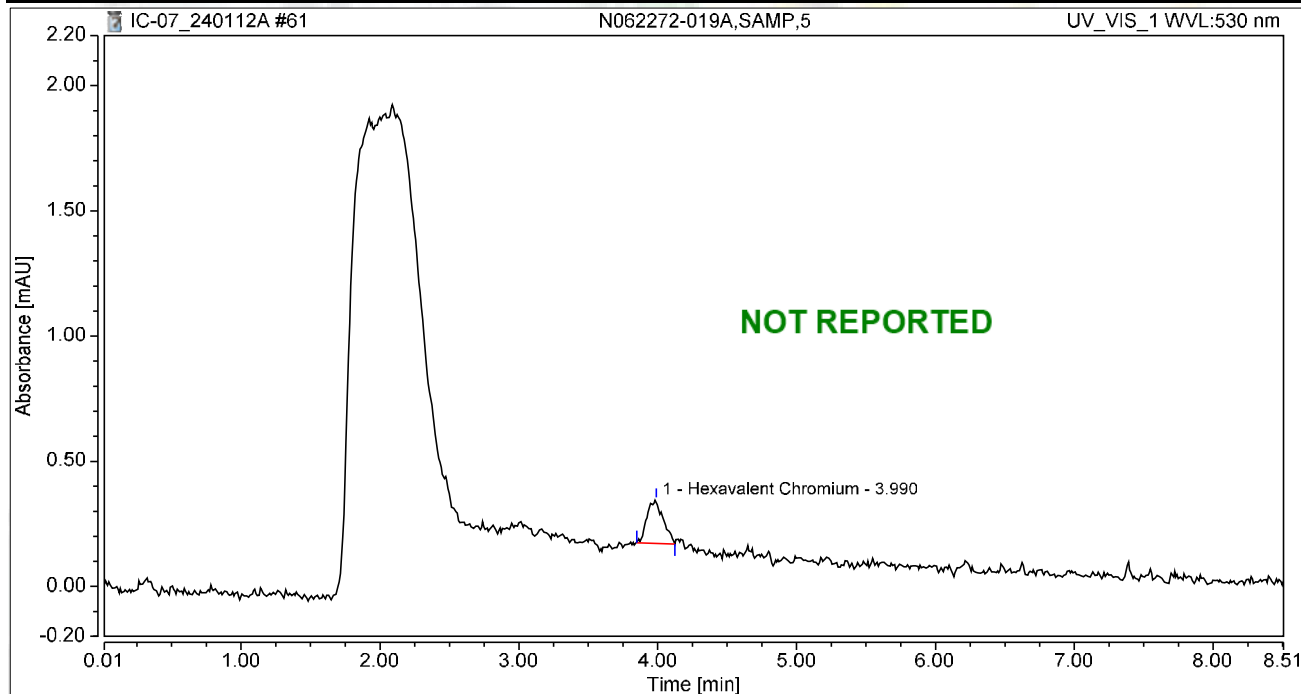
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019A,SAMP,5	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:48	Sample Weight:	1.0000

Chromatogram



Integration Results

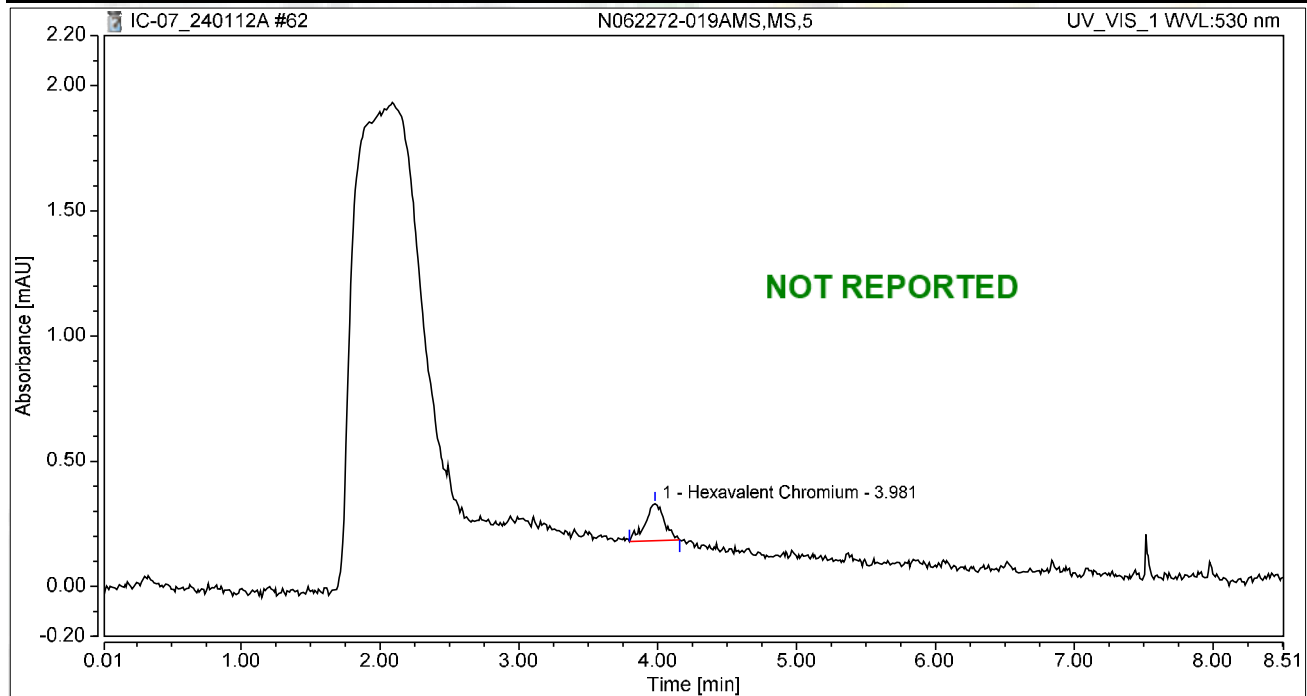
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.023	0.173	100.00	100.00	0.1123
Total:			0.023	0.173	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:57	Sample Weight:	1.0000

Chromatogram



Integration Results

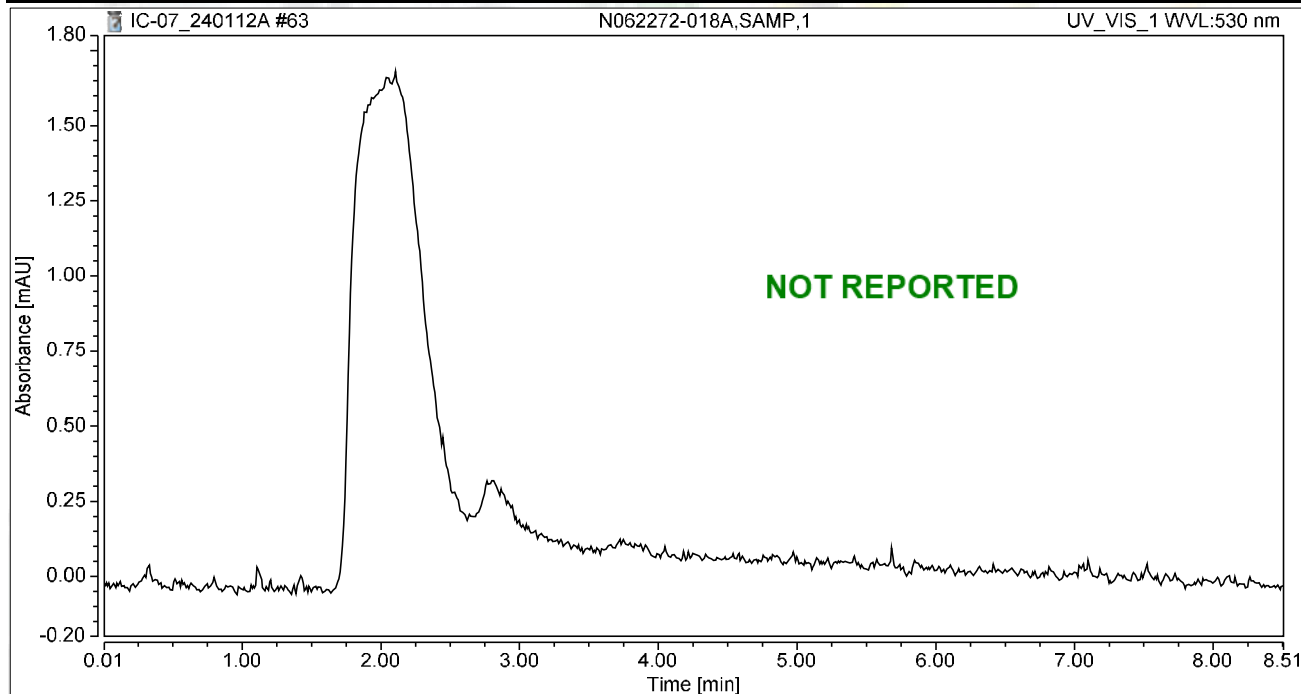
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.023	0.148	100.00	100.00	0.1126
Total:			0.023	0.148	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:07	Sample Weight:	1.0000

Chromatogram



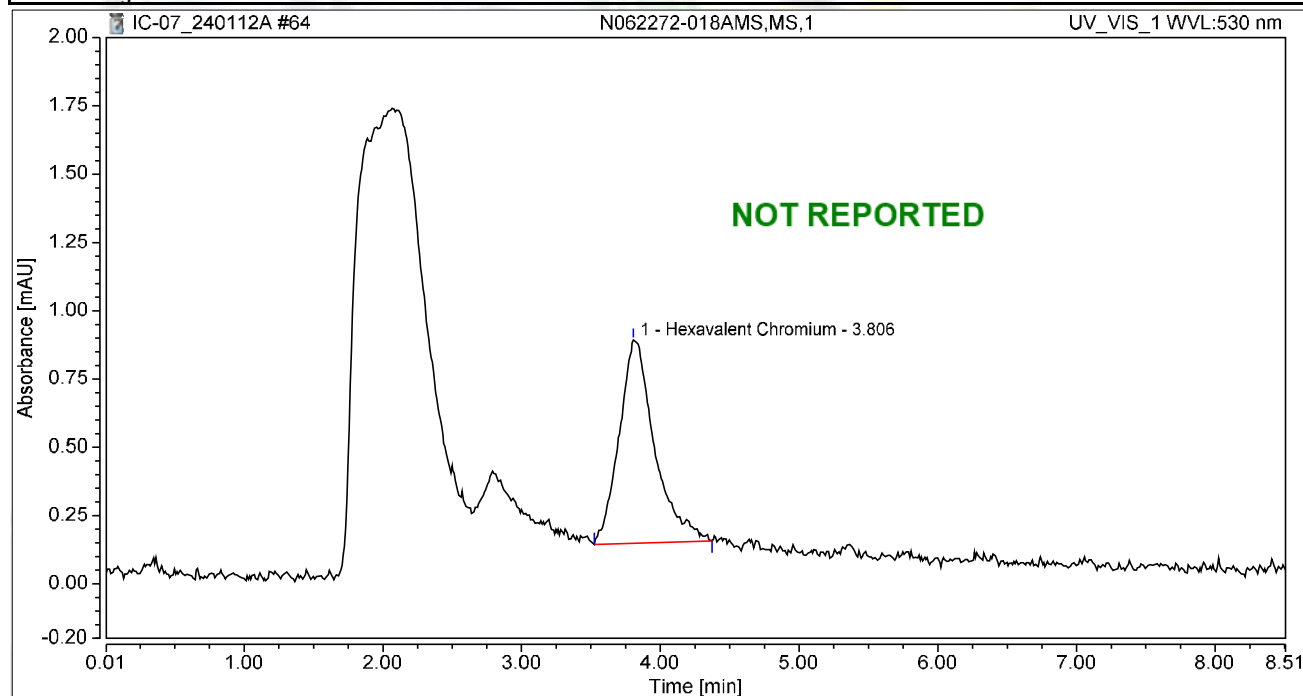
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-018AMS,MS,1	Run Time (min): 8.50
Vial Number:	21	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 20:16	Sample Weight: 1.0000

Chromatogram



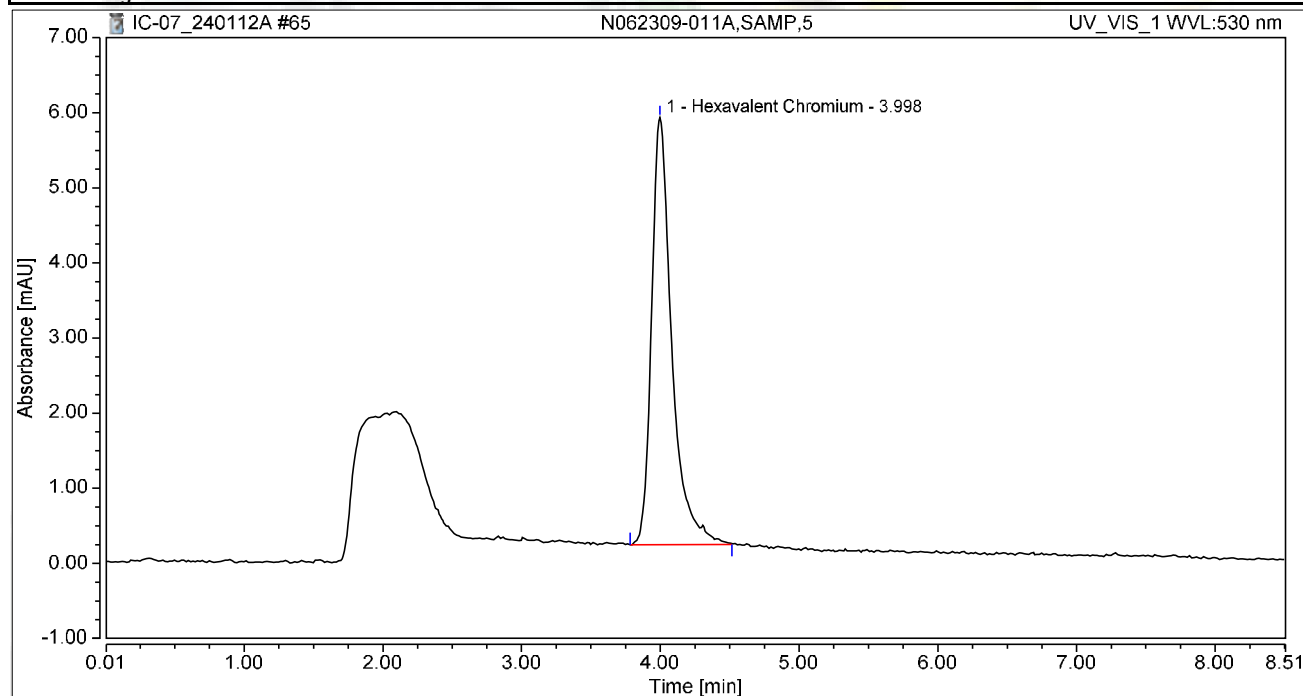
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.221	0.744	100.00	100.00	1.0611
Total:			0.221	0.744	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:26	Sample Weight:	1.0000

Chromatogram



Integration Results

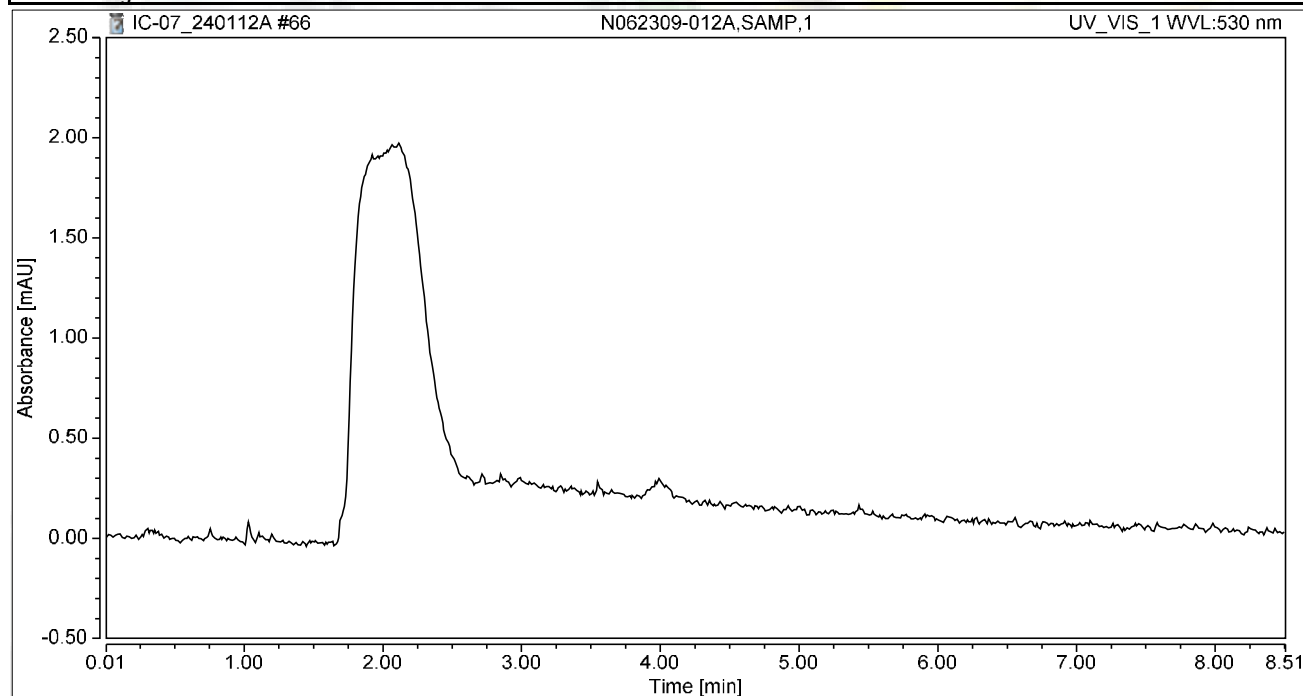
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.962	5.689	100.00	100.00	4.6251
Total:			0.962	5.689	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:35	Sample Weight:	1.0000

Chromatogram



Integration Results

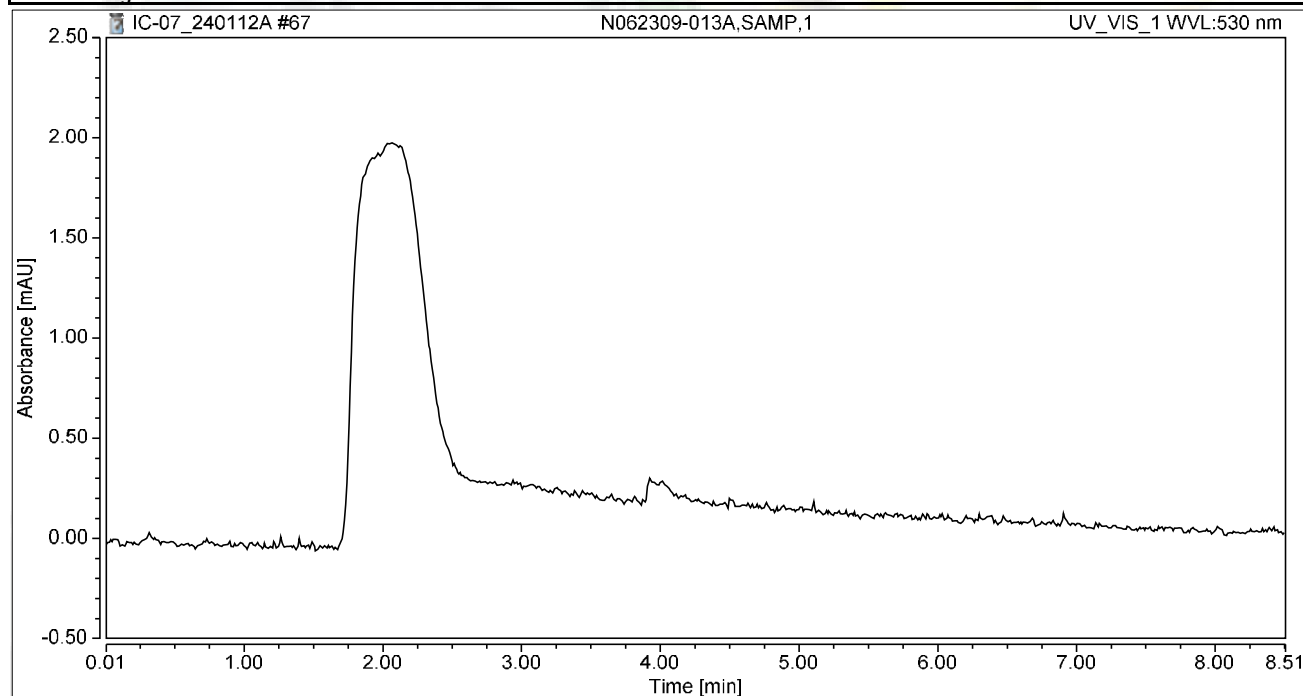
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:45	Sample Weight:	1.0000

Chromatogram



Integration Results

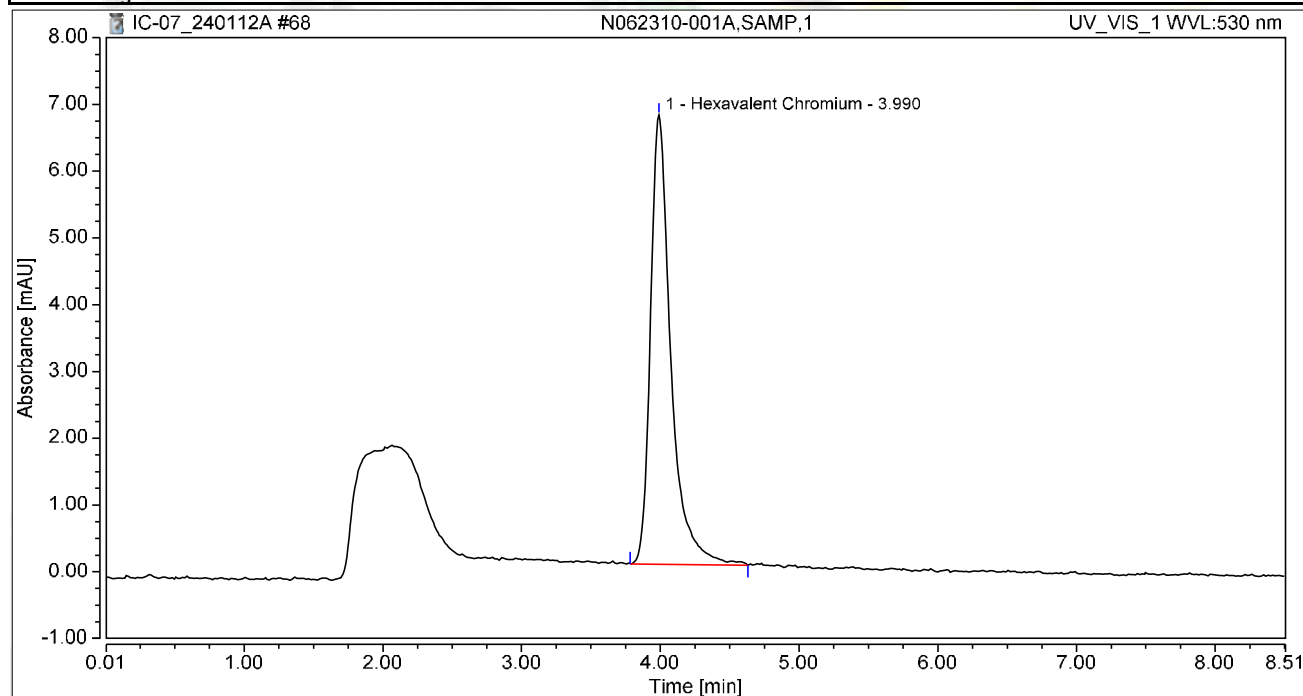
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:54	Sample Weight:	1.0000

Chromatogram



Integration Results

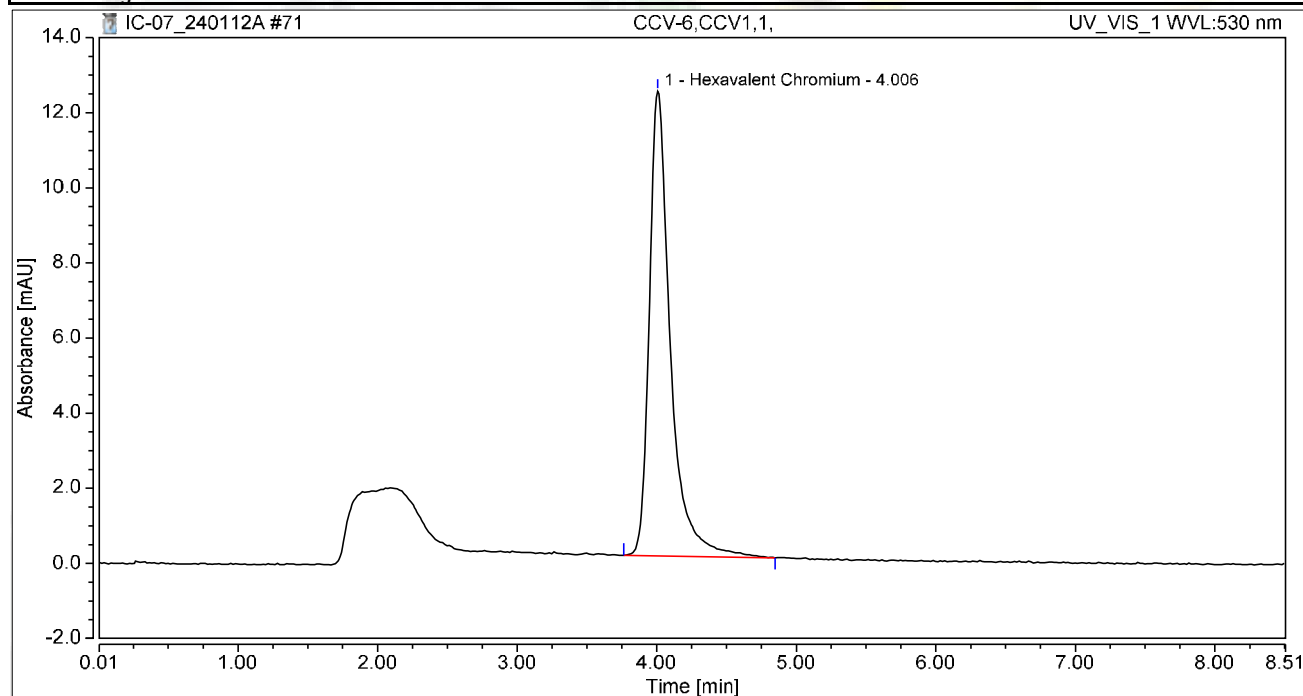
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.147	6.727	100.00	100.00	5.5100
Total:			1.147	6.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 21:23	Sample Weight:	1.0000

Chromatogram



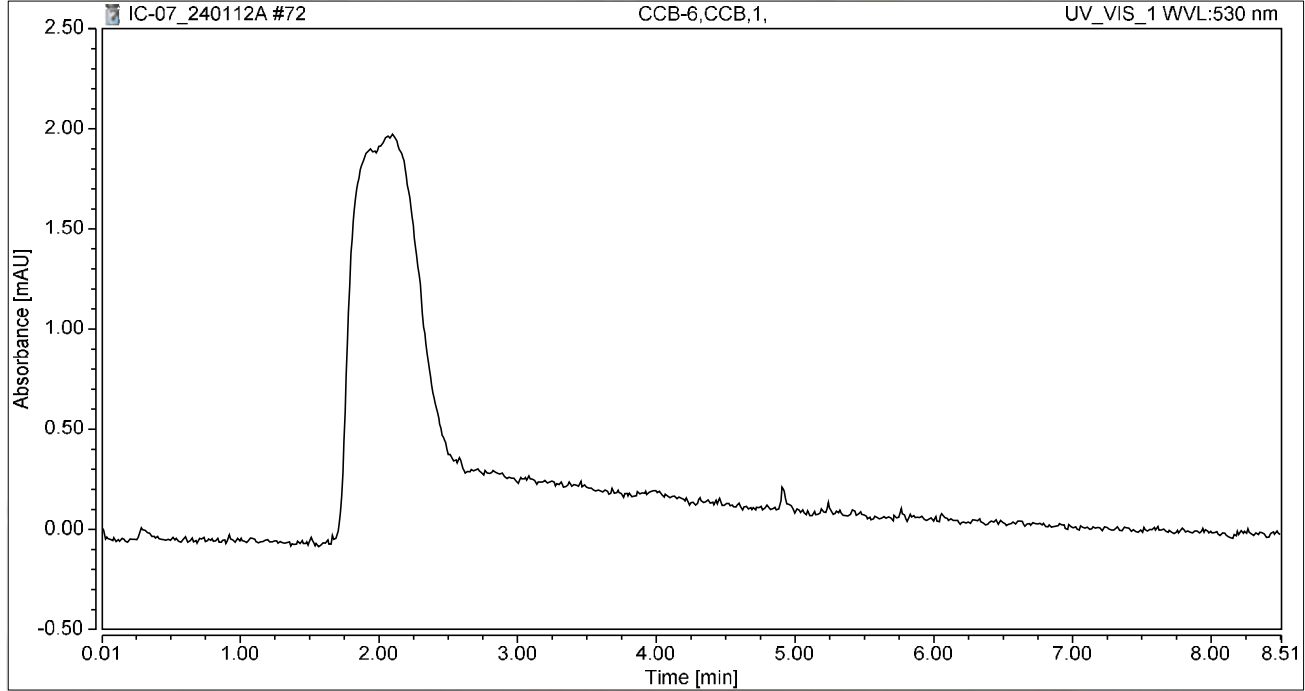
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.160	12.370	100.00	100.00	10.3804
Total:			2.160	12.370	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-6,CCB,1,	Run Time (min): 8.50
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 21:32	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

jrb 1/15/2024

RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240113A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	CCV-1	CCV	1	Hexavalent Chromium	01/13/24 10:51 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/13/24 11:02 AM	Reported
11	CCB-1	CCB	1	Hexavalent Chromium	01/13/24 11:12 AM	Reported
12	MB-R180348	MBLK	1	Hexavalent Chromium	01/13/24 11:21 AM	Reported
13	LCS-R180348	LCS	1	Hexavalent Chromium	01/13/24 11:31 AM	Reported
14	N062371-001B	SAMP	1	Hexavalent Chromium	01/13/24 11:40 AM	Reported
15	N062371-001BREP	DUP	1	Hexavalent Chromium	01/13/24 11:50 AM	Reported
16	N062371-001BMS	MS	1	Hexavalent Chromium	01/13/24 12:24 PM	Reported
17	N062310-022A	SAMP	5	Hexavalent Chromium	01/13/24 12:37 PM	Reported
18	N062310-015A	SAMP	10	Hexavalent Chromium	01/13/24 12:46 PM	Reported
19	N062310-017A	SAMP	10	Hexavalent Chromium	01/13/24 12:56 PM	Reported
20	N062310-018A	SAMP	10	Hexavalent Chromium	01/13/24 1:05 PM	Reported
21	N062310-023A	SAMP	10	Hexavalent Chromium	01/13/24 1:15 PM	Reported
22	CCV-2	CCV1	1	Hexavalent Chromium	01/13/24 1:24 PM	Reported
23	CCB-2	CCB	1	Hexavalent Chromium	01/13/24 1:34 PM	Reported
24	N062310-022AMS	MS	5	Hexavalent Chromium	01/13/24 1:48 PM	Reported
25	N062310-022AMSD	MSD	5	Hexavalent Chromium	01/13/24 2:00 PM	Reported
26	N062310-004A	SAMP	20	Hexavalent Chromium	01/13/24 2:10 PM	Reported
27	N062310-014A	SAMP	1	Hexavalent Chromium	01/13/24 2:19 PM	Reported
28	N062310-020A	SAMP	1	Hexavalent Chromium	01/13/24 2:29 PM	Reported
29	N062310-021A	SAMP	1	Hexavalent Chromium	01/13/24 2:38 PM	Reported
30	N062310-024A	SAMP	1	Hexavalent Chromium	01/13/24 2:48 PM	Reported
31	N062272-015A	SAMP	5	Hexavalent Chromium	01/13/24 2:57 PM	Reported
32	N062272-015AMS	MS	5	Hexavalent Chromium	01/13/24 3:07 PM	Reported
33	N062310-022ADUP	DUP	5	Hexavalent Chromium	01/13/24 3:16 PM	Reported
34	CCV-3	CCV	1	Hexavalent Chromium	01/13/24 3:25 PM	Reported
35	CCB-3	CCB	1	Hexavalent Chromium	01/13/24 3:35 PM	Reported
36	N062272-016A	SAMP	5	Hexavalent Chromium	01/13/24 3:44 PM	Reported
37	N062272-016AMS	MS	5	Hexavalent Chromium	01/13/24 3:54 PM	Reported
38	N062272-018A	SAMP	5	Hexavalent Chromium	01/13/24 4:03 PM	Reported
39	N062272-018AMS	MS	5	Hexavalent Chromium	01/13/24 4:13 PM	Reported
40	N062272-019A	SAMP	5	Hexavalent Chromium	01/13/24 4:22 PM	Reported
41	N062272-019AMS	MS	5	Hexavalent Chromium	01/13/24 4:32 PM	Reported
42	N062272-004A	SAMP	1	Hexavalent Chromium	01/13/24 4:41 PM	Reported

Reviewed by:

JRB 1/17/2024

INJECTION LOG: 240113A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062272-004AMS	MS	1	Hexavalent Chromium	01/13/24 4:51 PM	Reported
44	N062272-005A	SAMP	1	Hexavalent Chromium	01/13/24 5:00 PM	Reported
45	N062272-005AMS	MS	1	Hexavalent Chromium	01/13/24 5:10 PM	Reported
46	CCV-4	CCV1	1	Hexavalent Chromium	01/13/24 5:19 PM	Reported
47	CCB-4	CCB	1	Hexavalent Chromium	01/13/24 5:28 PM	Reported
48	N062192-009A	SAMP	1	Hexavalent Chromium	01/13/24 5:38 PM	Reported
49	N062309-001A	SAMP	1	Hexavalent Chromium	01/13/24 5:47 PM	Reported
50	MB-R180349	MBLK	1	Hexavalent Chromium	01/13/24 5:57 PM	Reported
51	LCS-R180349	LCS	1	Hexavalent Chromium	01/13/24 6:06 PM	Reported
52	N062350-018A	SAMP	1	Hexavalent Chromium	01/13/24 6:16 PM	Reported
53	N062350-018AMS	MS	1	Hexavalent Chromium	01/13/24 6:25 PM	Reported
54	N062350-018AMSD	MSD	1	Hexavalent Chromium	01/13/24 6:35 PM	Reported
55	N062350-001A	SAMP	1	Hexavalent Chromium	01/13/24 6:44 PM	Reported
56	N062350-001ADUP	DUP	1	Hexavalent Chromium	01/13/24 6:54 PM	Reported
57	N062350-001AMS	MS	1	Hexavalent Chromium	01/13/24 7:03 PM	Reported
58	CCV-5	CCV	1	Hexavalent Chromium	01/13/24 7:13 PM	Reported
59	CCB-5	CCB	1	Hexavalent Chromium	01/13/24 7:22 PM	Reported
60	N062350-002A	SAMP	1	Hexavalent Chromium	01/13/24 9:45 PM	Not Reported
61	N062350-003A	SAMP	20	Hexavalent Chromium	01/13/24 9:45 PM	Not Reported
62	N062350-004A	SAMP	5	Hexavalent Chromium	01/13/24 9:57 PM	Reported
63	N062350-005A	SAMP	1	Hexavalent Chromium	01/13/24 10:06 PM	Reported
64	N062350-006A	SAMP	10	Hexavalent Chromium	01/13/24 10:16 PM	Reported
65	N062350-007A	SAMP	1	Hexavalent Chromium	01/13/24 10:25 PM	Reported
66	N062350-008A	SAMP	5	Hexavalent Chromium	01/13/24 10:35 PM	Reported
67	N062350-009A	SAMP	1	Hexavalent Chromium	01/13/24 10:44 PM	Reported
68	N062350-010A	SAMP	1	Hexavalent Chromium	01/13/24 10:53 PM	Reported
69	N062350-011A	SAMP	1	Hexavalent Chromium	01/13/24 11:03 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	01/13/24 11:12 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	01/13/24 11:22 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	01/13/24 11:31 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	14/Jan/24 00:02:05
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	CCV-1,CCV,1,	1	1000	Unknown		01/13/2024 10:51	Finished	CCV @5ppb, IWST-231228A
10	PQL@0.2ppb,CCV2,	2	1000	Unknown		01/13/2024 11:02	Finished	PQL @ 0.2ppb
11	CCB-1,CCB,1,	3	1000	Unknown		01/13/2024 11:12	Finished	CCB R231227C
12	MB-H2O,MBLK,1,	4	1000	Unknown		01/13/2024 11:21	Finished	MB R231227C
13	LCS-H2O,LCS,1,	5	1000	Unknown		01/13/2024 11:31	Finished	LCS @5ppb, IWST-231228B
14	N062371-001B,SAMF	6	1000	Unknown		01/13/2024 11:40	Finished	SAMP,10 mL
15	N062371-001BREP,D	7	1000	Unknown		01/13/2024 11:50	Finished	REP,10 mL
16	N062371-001BMS,M	1	1000	Unknown		01/13/2024 12:24	Finished	MS (1ppb), IWST-231228B,10r
17	N062310-022A,SAMF	2	1000	Unknown		01/13/2024 12:37	Finished	SAMP,2>10 mL
18	N062310-015A,SAMF	3	1000	Unknown		01/13/2024 12:46	Finished	SAMP,1>10 mL
19	N062310-017A,SAMF	4	1000	Unknown		01/13/2024 12:56	Finished	SAMP,1>10 mL
20	N062310-018A,SAMF	5	1000	Unknown		01/13/2024 13:05	Finished	SAMP,1>10 mL
21	N062310-023A,SAMF	6	1000	Unknown		01/13/2024 13:15	Finished	SAMP,1>10 mL
22	CCV-2,CCV1,1,	7	1000	Unknown		01/13/2024 13:24	Finished	CCV @10ppb, IWST-231228A
23	CCB-2,CCB,1,	8	1000	Unknown		01/13/2024 13:34	Finished	CCB R231030A
24	N062310-022AMS,M	1	1000	Unknown		01/13/2024 13:48	Finished	MS (5ppb), IWST-231228B,2>
25	N062310-022AMSD,N	2	1000	Unknown		01/13/2024 14:00	Finished	MSD (5ppb), IWST-231228B,2
26	N062310-004A,SAMF	3	1000	Unknown		01/13/2024 14:10	Finished	SAMP,0.5>10 mL
27	N062310-014A,SAMF	4	1000	Unknown		01/13/2024 14:19	Finished	SAMP,10 mL
28	N062310-020A,SAMF	5	1000	Unknown		01/13/2024 14:29	Finished	SAMP,10 mL
29	N062310-021A,SAMF	6	1000	Unknown		01/13/2024 14:38	Finished	SAMP,10 mL
30	N062310-024A,SAMF	7	1000	Unknown		01/13/2024 14:48	Finished	SAMP,10 mL
31	N062272-015A,SAMF	8	1000	Unknown		01/13/2024 14:57	Finished	SAMP,2>10 mL
32	N062272-015AMS,M	9	1000	Unknown		01/13/2024 15:07	Finished	MS (1ppb), IWST-231228B,2>
33	N062310-022ADUP,D	10	1000	Unknown		01/13/2024 15:16	Finished	DUP,2>10 mL
34	CCV-3,CCV,1,	11	1000	Unknown		01/13/2024 15:25	Finished	CCV @5ppb, IWST-231228A
35	CCB-3,CCB,1,	12	1000	Unknown		01/13/2024 15:35	Finished	CCB R231030A
36	N062272-016A,SAMF	13	1000	Unknown		01/13/2024 15:44	Finished	SAMP,2>10 mL
37	N062272-016AMS,M	14	1000	Unknown		01/13/2024 15:54	Finished	MS (1ppb), IWST-231228B,2>
38	N062272-018A,SAMF	15	1000	Unknown		01/13/2024 16:03	Finished	SAMP,2>10 mL
39	N062272-018AMS,M	16	1000	Unknown		01/13/2024 16:13	Finished	MS (1ppb), IWST-231228B,2>
40	N062272-019A,SAMF	17	1000	Unknown		01/13/2024 16:22	Finished	SAMP,2>10 mL
41	N062272-019AMS,M	18	1000	Unknown		01/13/2024 16:32	Finished	MS (1ppb), IWST-231228B,2>
42	N062272-004A,SAMF	19	1000	Unknown		01/13/2024 16:41	Finished	SAMP,10 mL
43	N062272-004AMS,M	20	1000	Unknown		01/13/2024 16:51	Finished	MS (5ppb), IWST-231228B,10r
44	N062272-005A,SAMF	21	1000	Unknown		01/13/2024 17:00	Finished	SAMP,10 mL
45	N062272-005AMS,M	22	1000	Unknown		01/13/2024 17:10	Finished	MS (5ppb), IWST-231228B,10r
46	CCV-4,CCV1,1,	23	1000	Unknown		01/13/2024 17:19	Finished	CCV @10ppb, IWST-231228A
47	CCB-4,CCB,1,	24	1000	Unknown		01/13/2024 17:28	Finished	CCB R231030A
48	N062192-009A,SAMF	25	1000	Unknown		01/13/2024 17:38	Finished	SAMP,10 mL
49	N062309-001A,SAMF	26	1000	Unknown		01/13/2024 17:47	Finished	SAMP,10 mL
50	MB-2,MBLK,1,	27	1000	Unknown		01/13/2024 17:57	Finished	MB R231227C
51	LCS-2,LCS,1,	28	1000	Unknown		01/13/2024 18:06	Finished	LCS @5ppb, IWST-231228B
52	N062350-018A,SAMF	29	1000	Unknown		01/13/2024 18:16	Finished	SAMP,10 mL
53	N062350-018AMS,M	30	1000	Unknown		01/13/2024 18:25	Finished	MS (1ppb), IWST-231228B,10r
54	N062350-018AMSD,N	31	1000	Unknown		01/13/2024 18:35	Finished	MSD (1ppb), IWST-231228B,1
55	N062350-001A,SAMF	32	1000	Unknown		01/13/2024 18:44	Finished	SAMP,10 mL
56	N062350-001ADUP,D	33	1000	Unknown		01/13/2024 18:54	Finished	DUP,10 mL
57	N062350-001AMS,M	34	1000	Unknown		01/13/2024 19:03	Finished	MS (1ppb), IWST-231228B,10r
58	CCV-5,CCV,1,	35	1000	Unknown		01/13/2024 19:13	Finished	CCV @5ppb, IWST-231228A
59	CCB-5,CCB,1,	36	1000	Unknown		01/13/2024 19:22	Interrupted	CCB R231227C
60	N062350-002A,SAMF	37	1000	Unknown		01/13/2024 21:45	Interrupted	SAMP,10 mL

61	N062350-003A,SAMF	38	1000	Unknown		01/13/2024 21:45	Finished	SAMP_0.5>10 mL
62	N062350-004A,SAMF	39	1000	Unknown		01/13/2024 21:57	Finished	SAMP_2>10 mL
63	N062350-005A,SAMF	40	1000	Unknown		01/13/2024 22:06	Finished	SAMP_10 mL
64	N062350-006A,SAMF	41	1000	Unknown		01/13/2024 22:16	Finished	SAMP_1>10 mL
65	N062350-007A,SAMF	42	1000	Unknown		01/13/2024 22:25	Finished	SAMP_10 mL
66	N062350-008A,SAMF	43	1000	Unknown		01/13/2024 22:35	Finished	SAMP_2>10 mL
67	N062350-009A,SAMF	44	1000	Unknown		01/13/2024 22:44	Finished	SAMP_10 mL
68	N062350-010A,SAMF	45	1000	Unknown		01/13/2024 22:53	Finished	SAMP_10 mL
69	N062350-011A,SAMF	46	1000	Unknown		01/13/2024 23:03	Finished	SAMP_10 mL
70	CCV-6,CCV1,1,	47	1000	Unknown		01/13/2024 23:12	Finished	CCV @10ppb, IWST-231228A
71	CCB-6,CCB,1,	48	1000	Unknown		01/13/2024 23:22	Finished	CCB R231227C
72	BLANK	49	1000	Unknown		01/13/2024 23:31	Finished	BLANK
73	SHUTDOWN	50	1000	Unknown		01/13/2024 23:41	Finished	
74	Eluent: R240108A	51	1000	Unknown		n.a.	Finished	
75	PCR: R240108B	CurrentVial	1000	Unknown		n.a.	Finished	

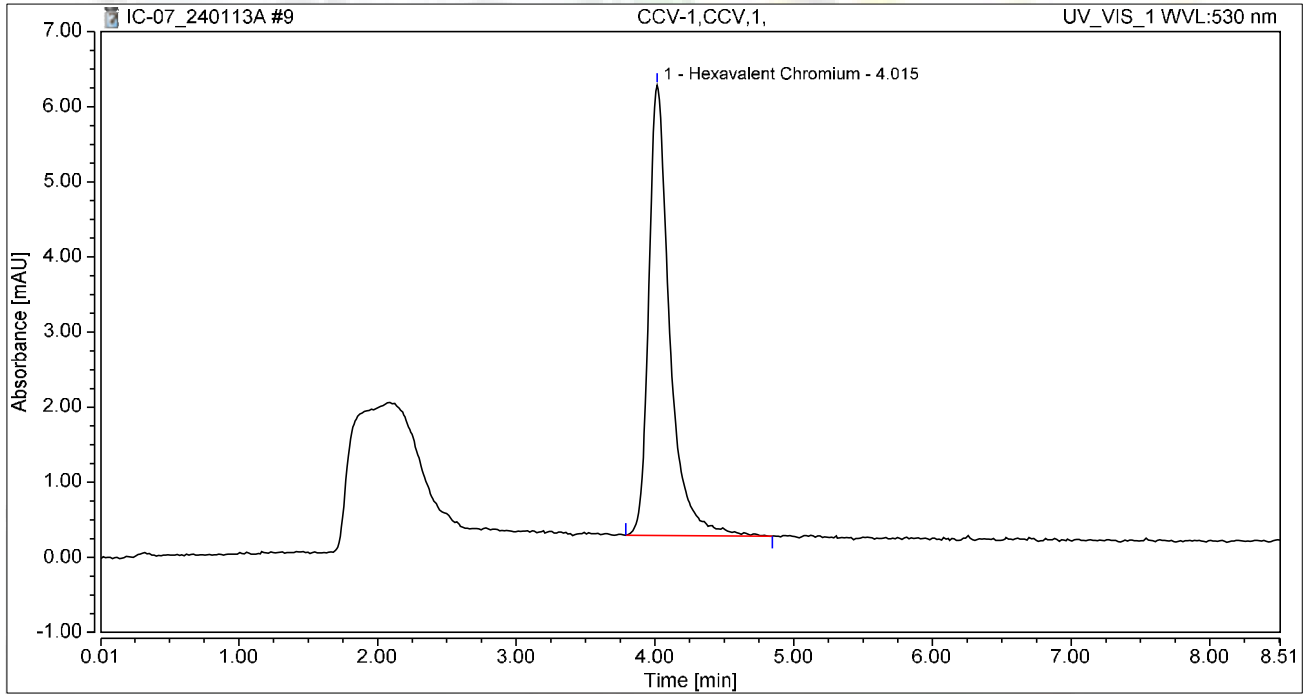


Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 10:51	Sample Weight:	1.0000

Chromatogram



Integration Results

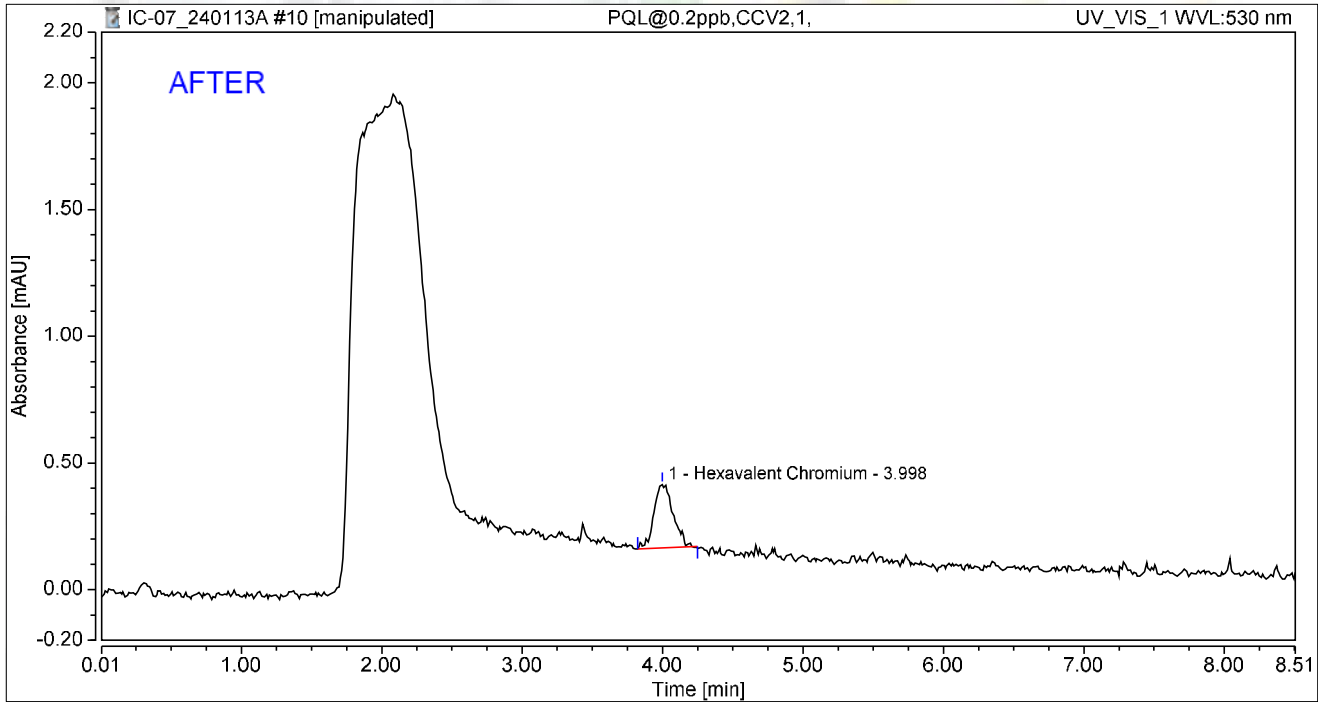
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.052	5.994	100.00	100.00	5.0538
Total:			1.052	5.994	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.040	0.250	100.00	100.00	0.1909
Total:			0.040	0.250	100.00	100.00	

Reviewed by:

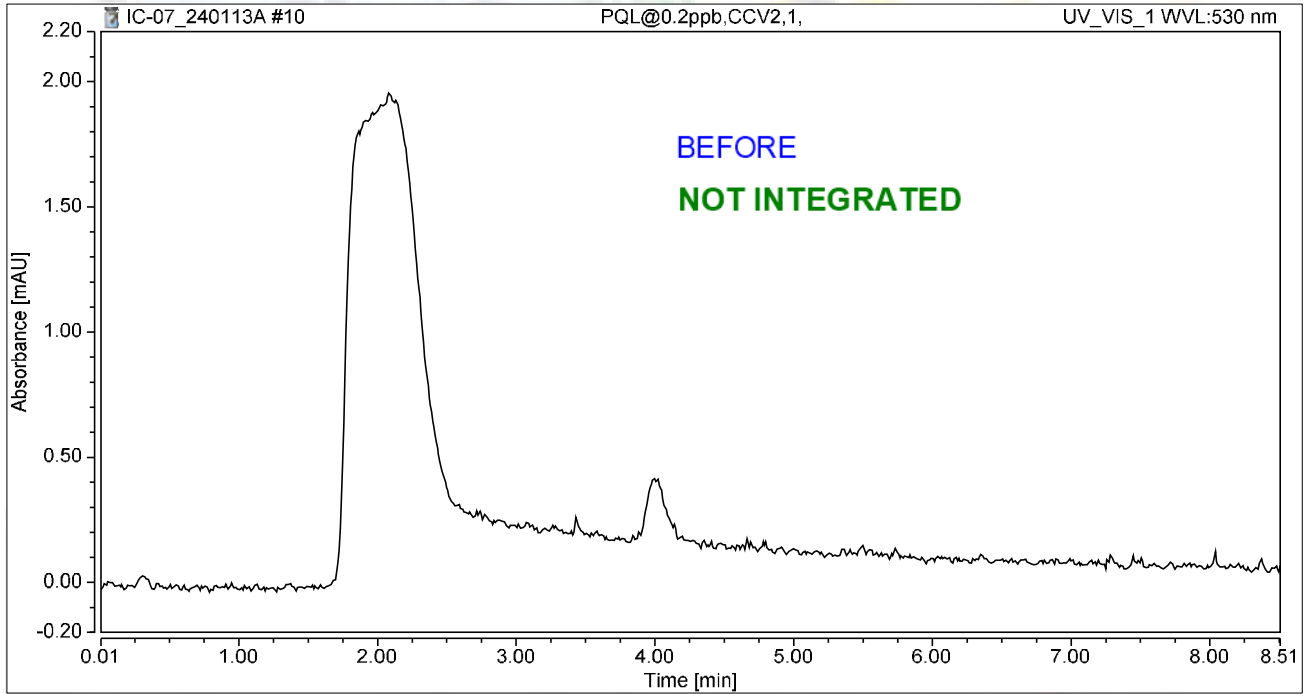
JRB 1/17/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:02	Sample Weight:	1.0000

Chromatogram



Integration Results

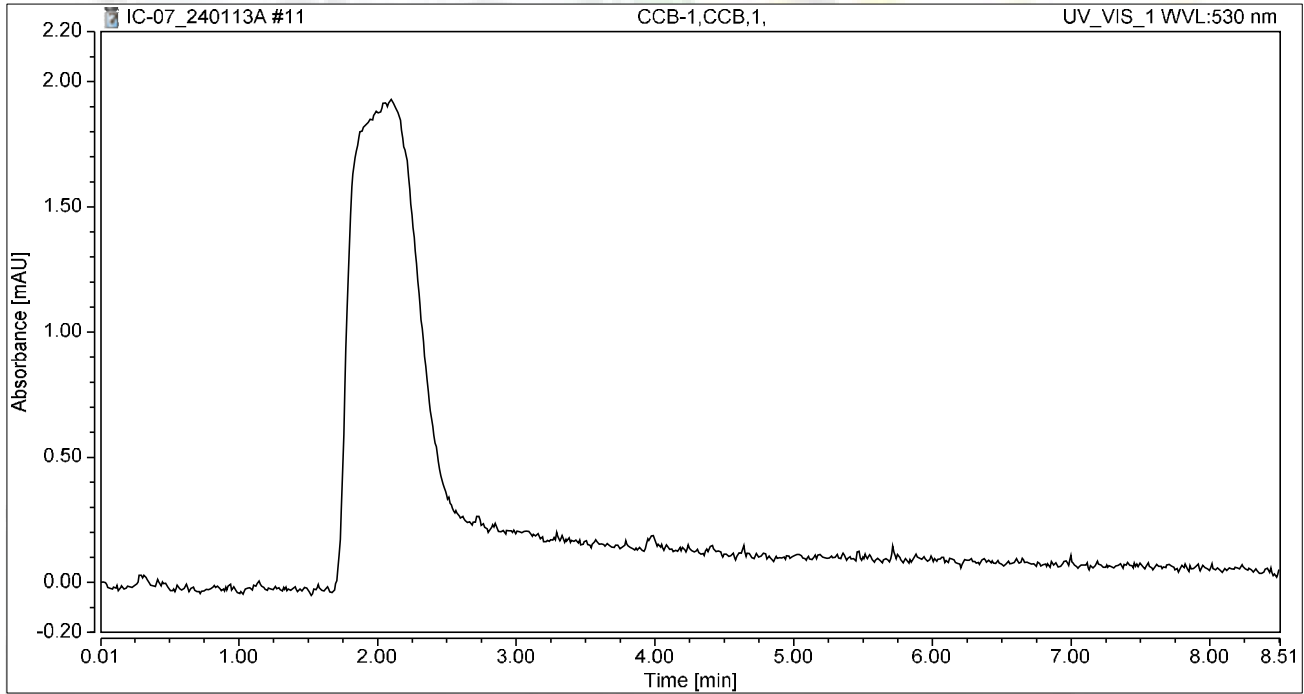
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:12	Sample Weight:	1.0000

Chromatogram



Integration Results

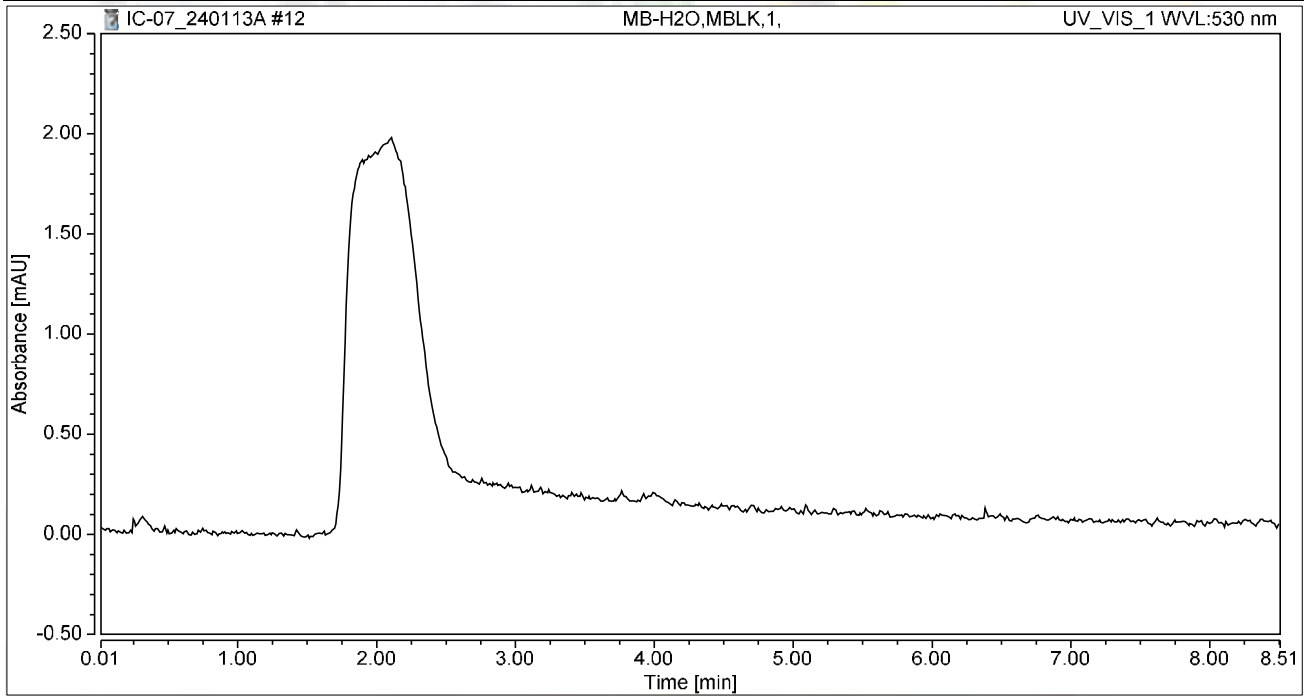
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:21	Sample Weight:	1.0000

Chromatogram



Integration Results

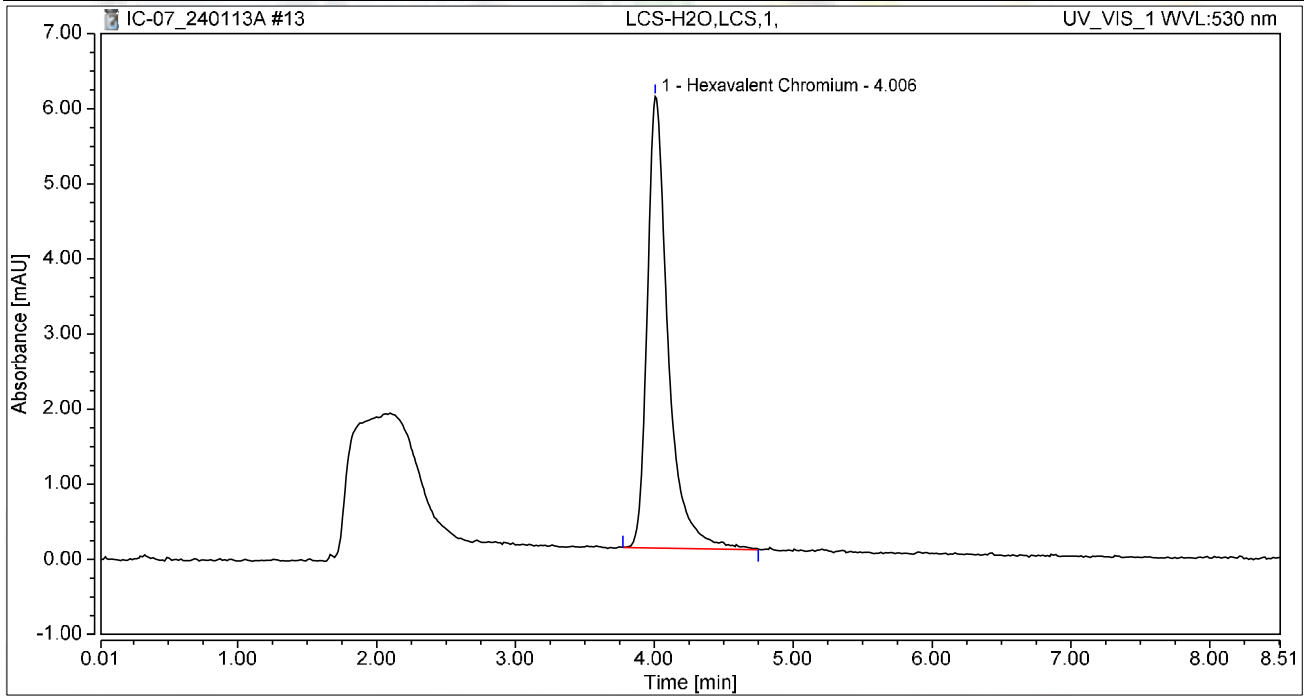
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:31	Sample Weight:	1.0000

Chromatogram



Integration Results

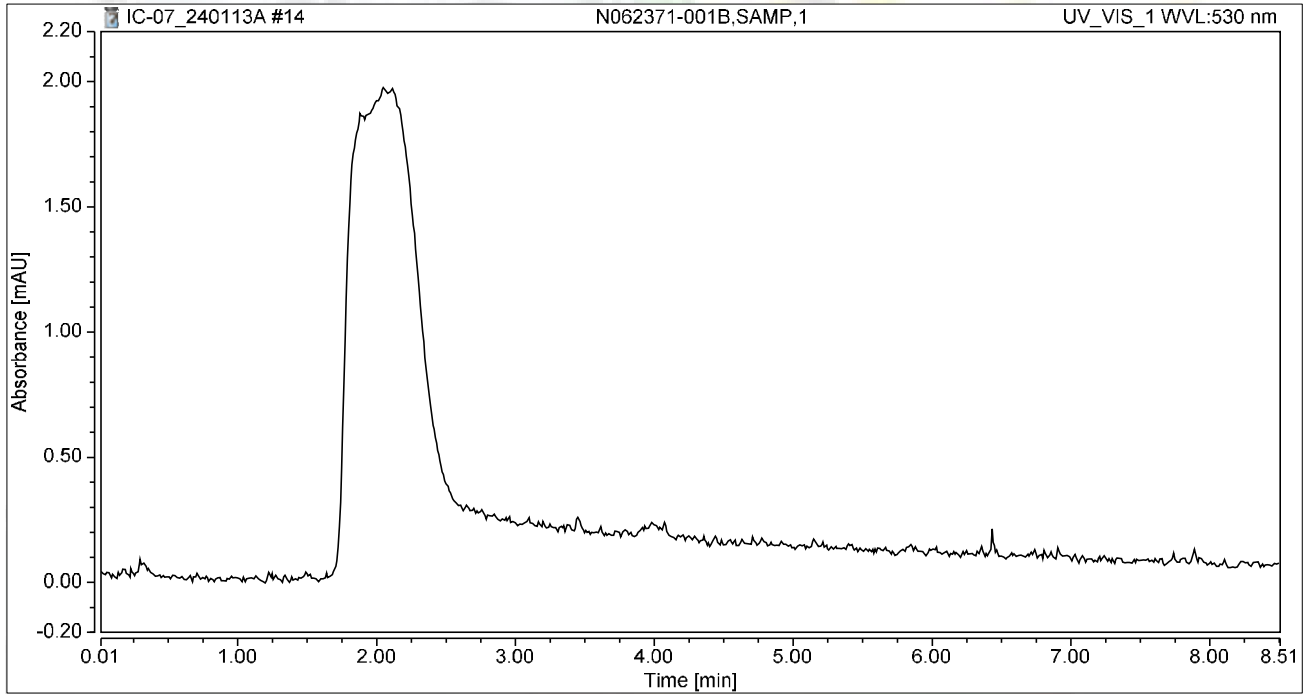
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.048	6.012	100.00	100.00	5.0372
Total:			1.048	6.012	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062371-001B,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:40	Sample Weight:	1.0000

Chromatogram



Integration Results

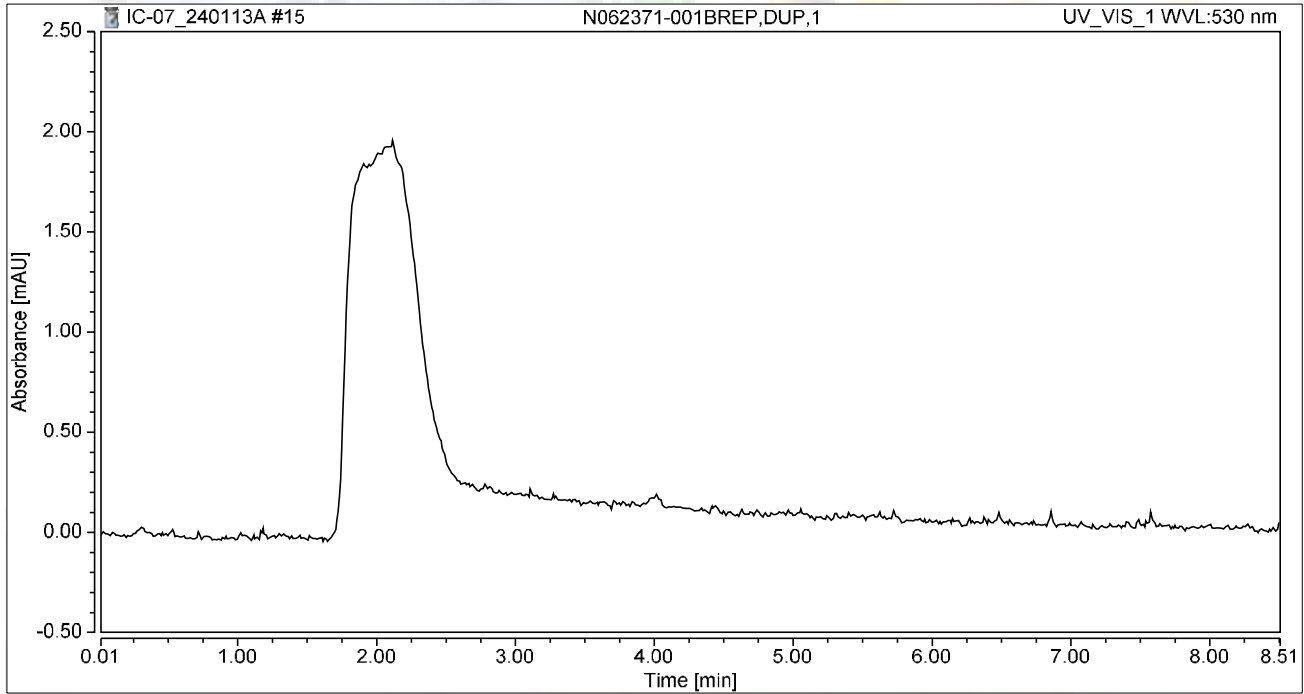
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062371-001BREP,DUP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 11:50	Sample Weight:	1.0000

Chromatogram



Integration Results

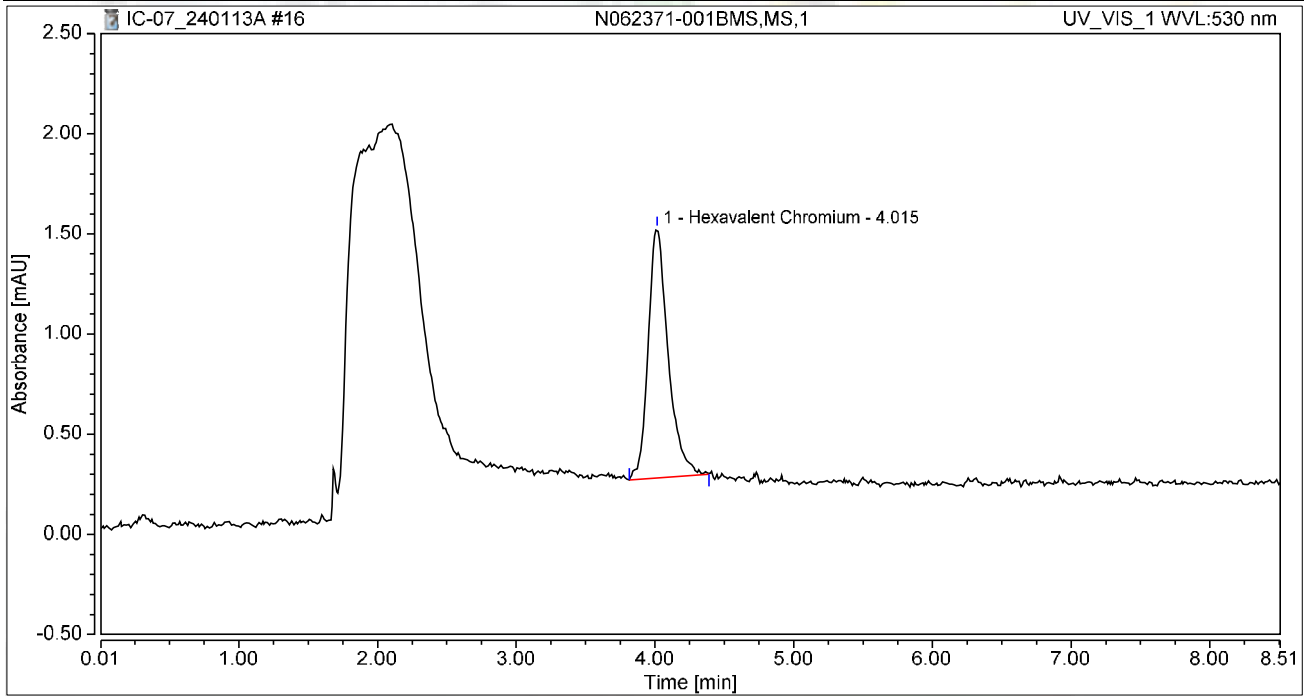
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062371-001BMS,MS,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

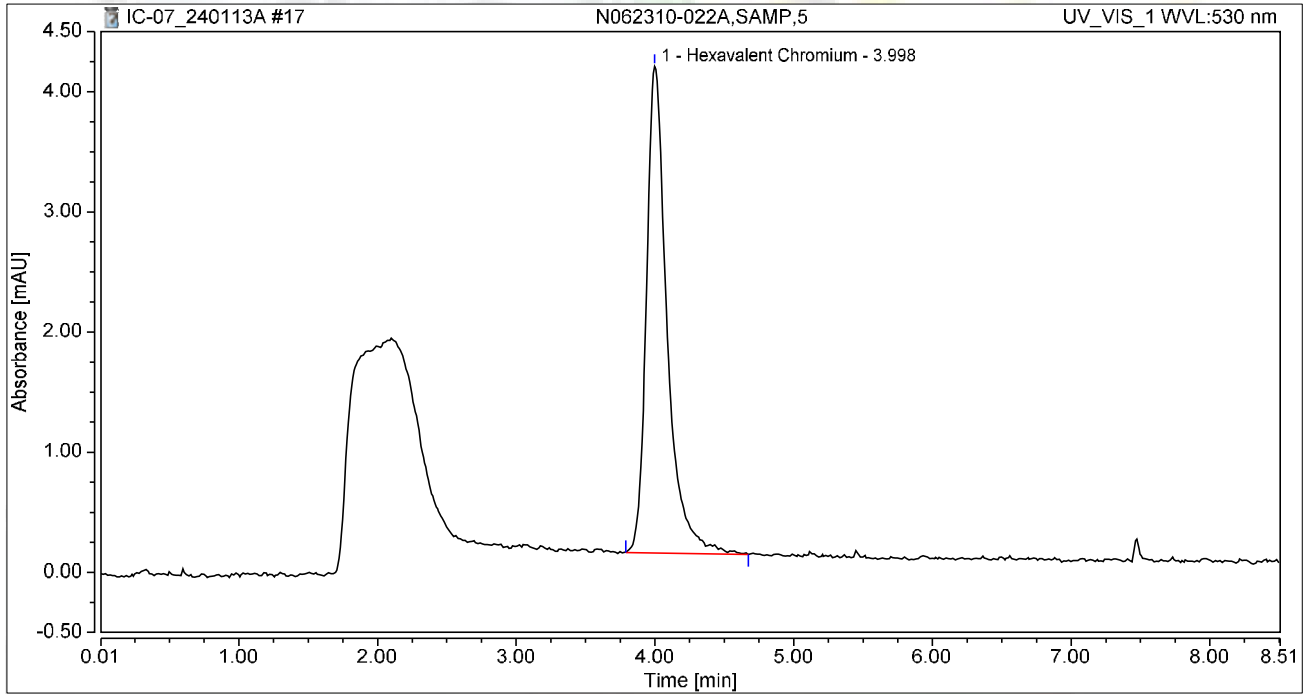
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.208	1.245	100.00	100.00	1.0000
Total:			0.208	1.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-022A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 12:37	Sample Weight:	1.0000

Chromatogram



Integration Results

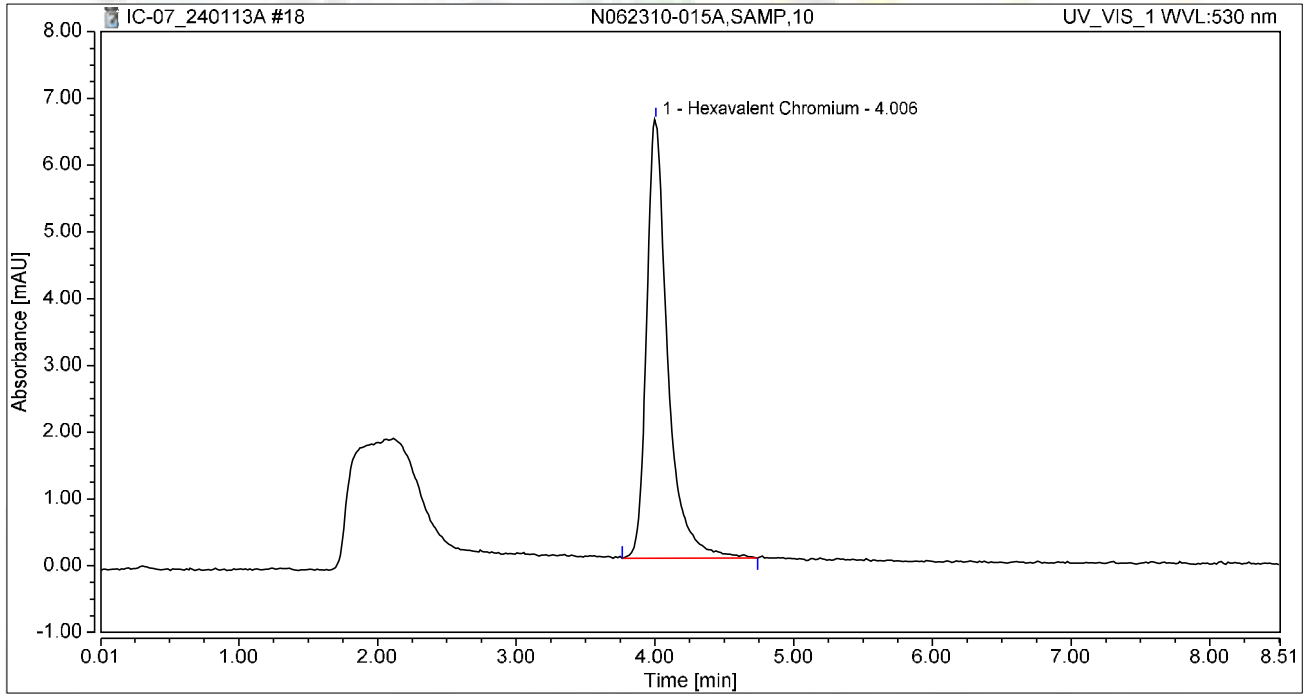
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.700	4.048	100.00	100.00	3.3632
Total:			0.700	4.048	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-015A,SAMP,10	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 12:46	Sample Weight:	1.0000

Chromatogram



Integration Results

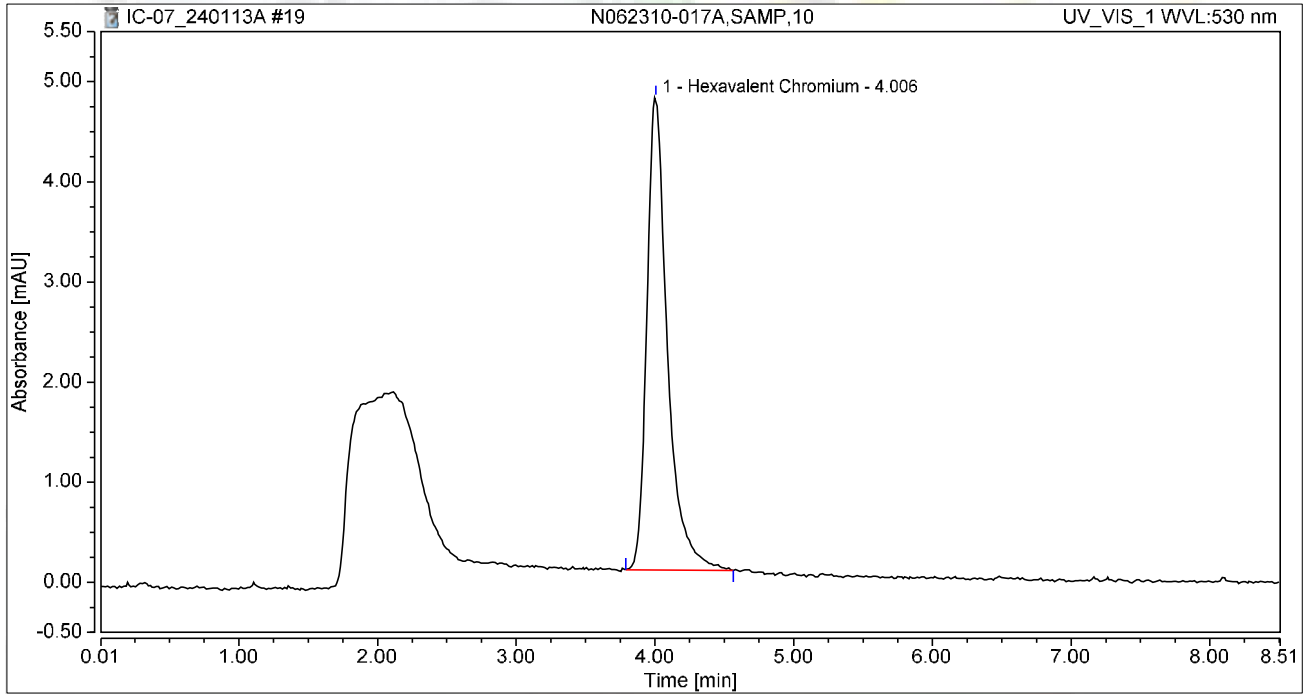
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.156	6.570	100.00	100.00	5.5550
Total:			1.156	6.570	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-017A,SAMP,10	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 12:56	Sample Weight:	1.0000

Chromatogram



Integration Results

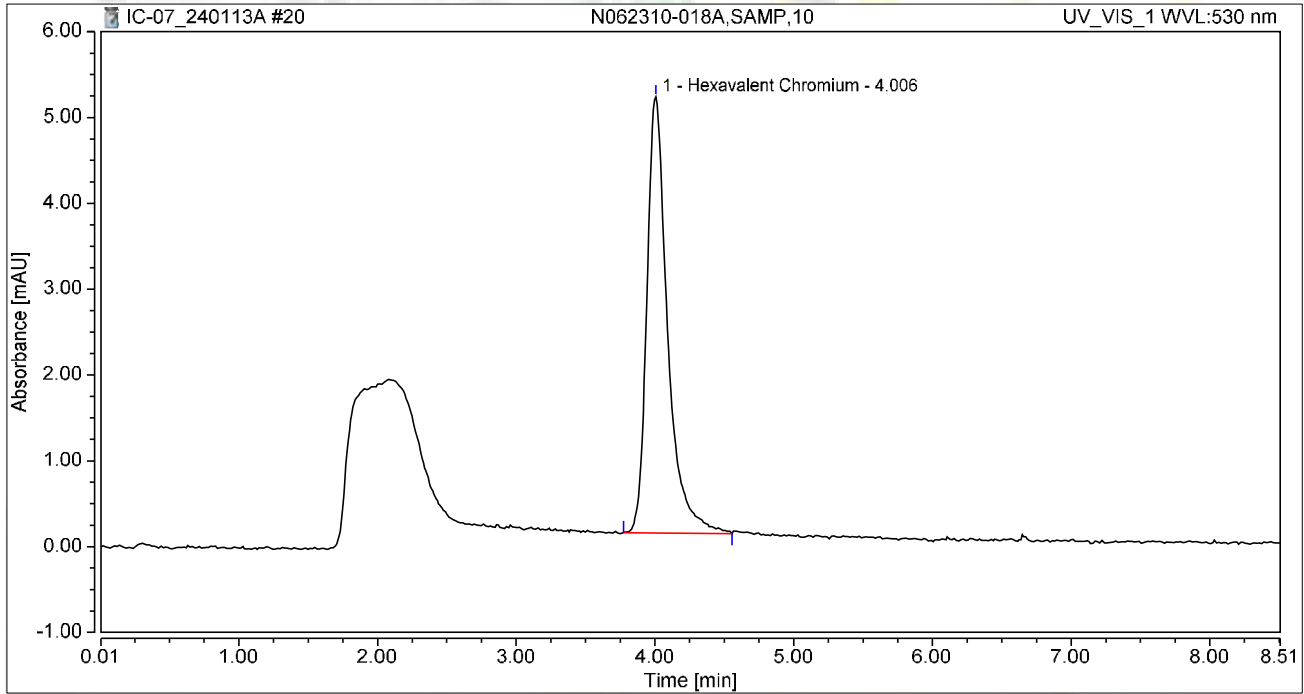
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.812	4.717	100.00	100.00	3.9001
Total:			0.812	4.717	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-018A,SAMP,10	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 13:05	Sample Weight:	1.0000

Chromatogram



Integration Results

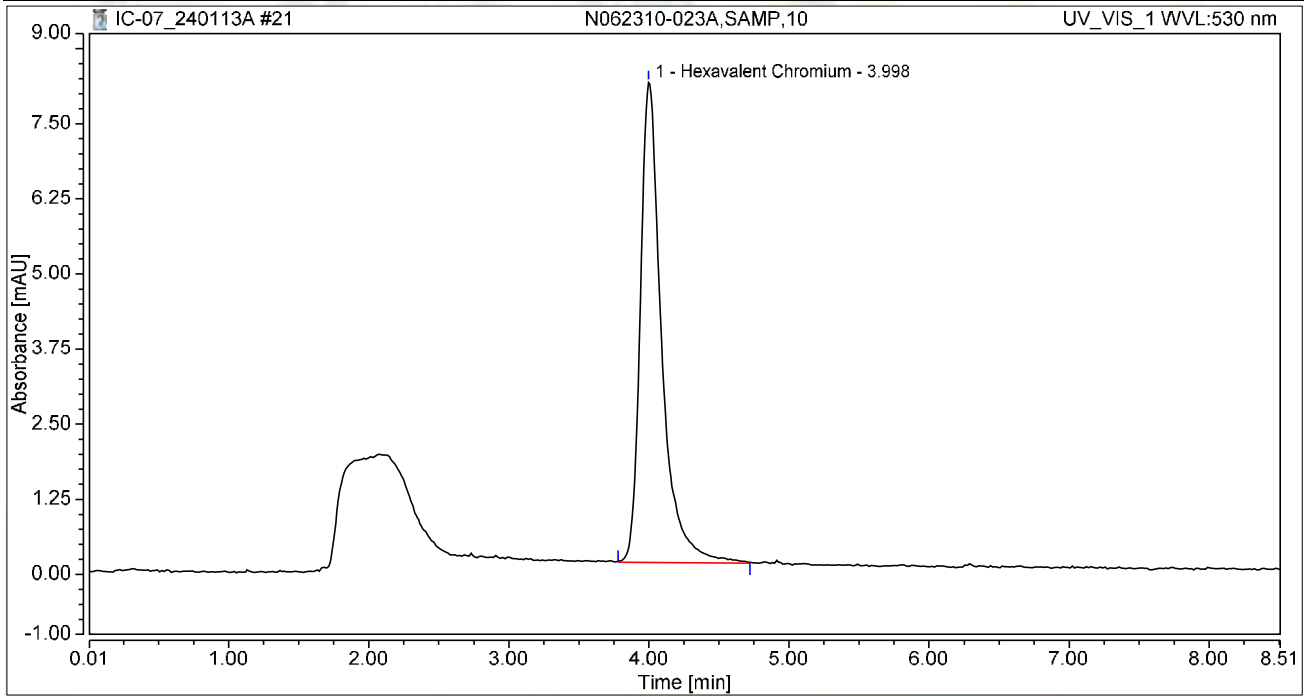
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.879	5.082	100.00	100.00	4.2239
Total:			0.879	5.082	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-023A,SAMP,10	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 13:15	Sample Weight:	1.0000

Chromatogram



Integration Results

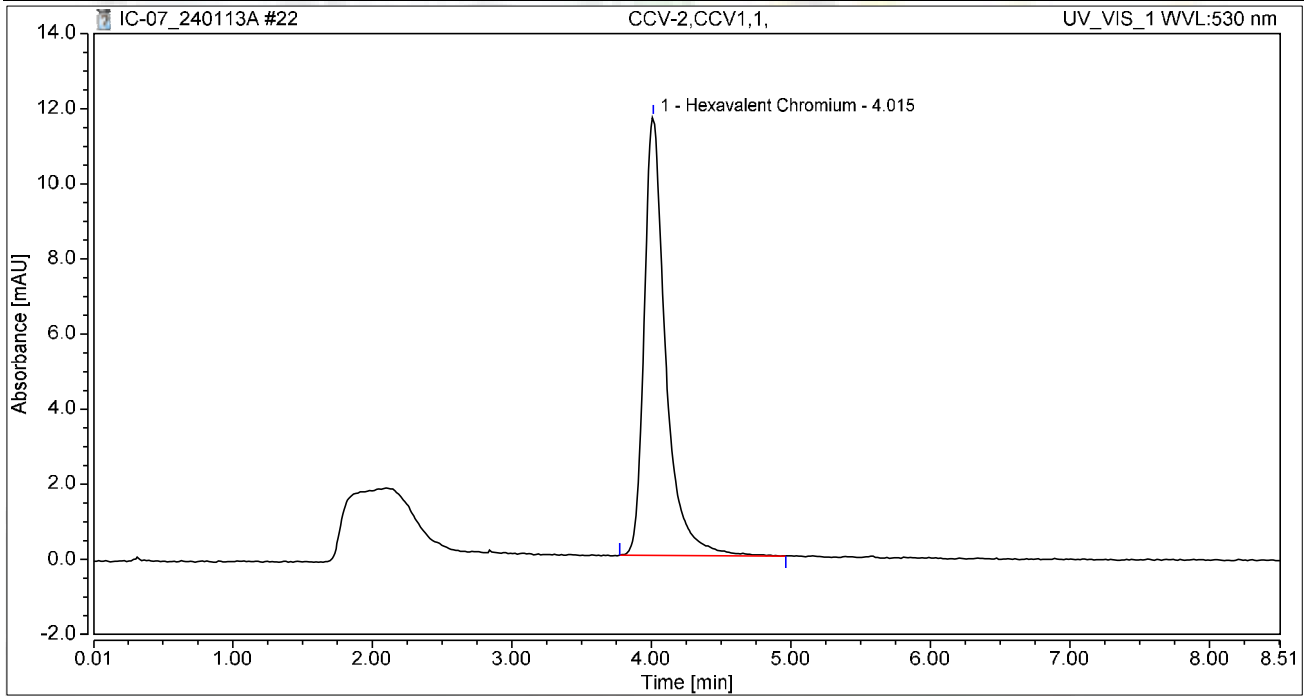
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.408	7.986	100.00	100.00	6.7654
Total:			1.408	7.986	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 13:24	Sample Weight:	1.0000

Chromatogram



Integration Results

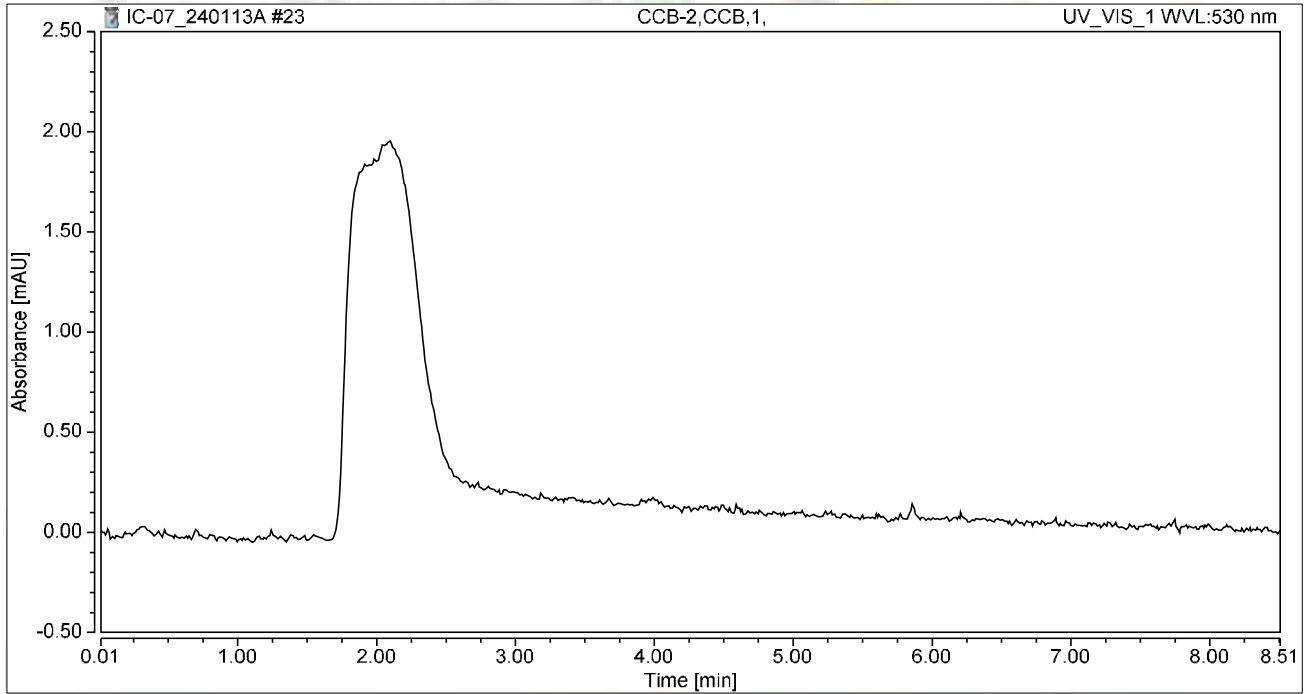
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.079	11.673	100.00	100.00	9.9901
Total:			2.079	11.673	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 13:34	Sample Weight:	1.0000

Chromatogram



Integration Results

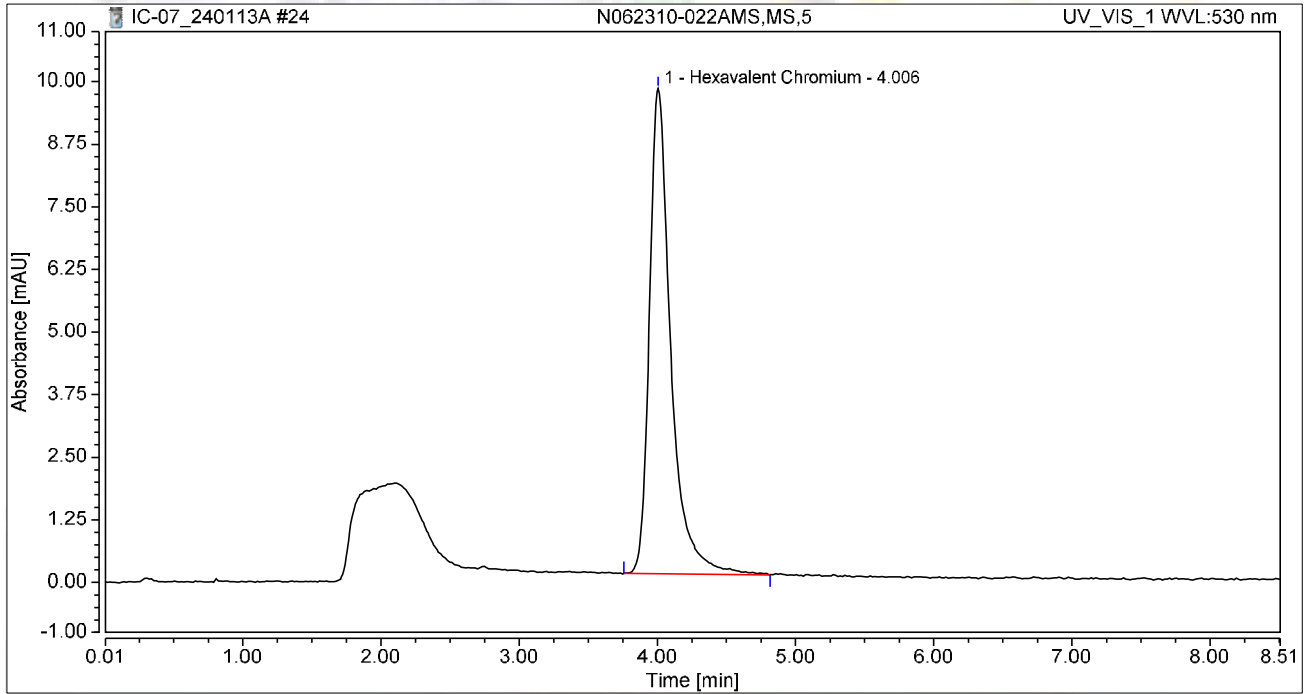
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-022AMS,MS,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 13:48	Sample Weight:	1.0000

Chromatogram



Integration Results

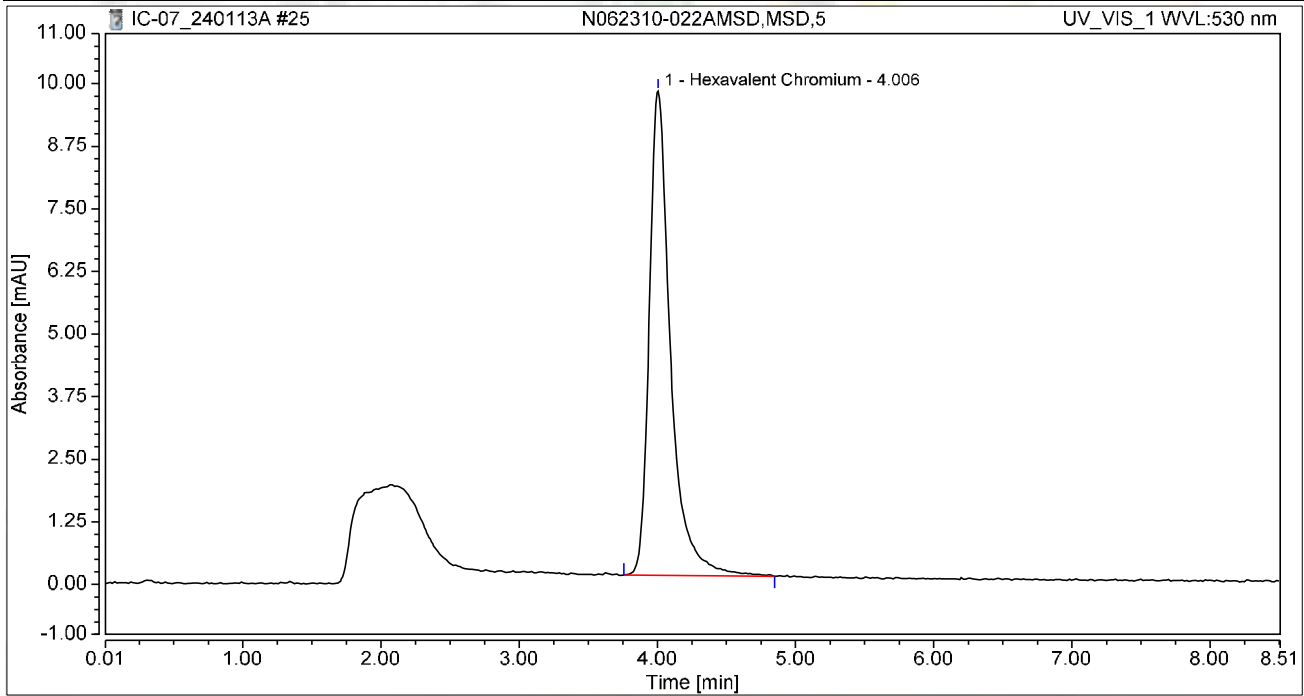
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.737	9.693	100.00	100.00	8.3464
Total:			1.737	9.693	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-022AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:00	Sample Weight:	1.0000

Chromatogram



Integration Results

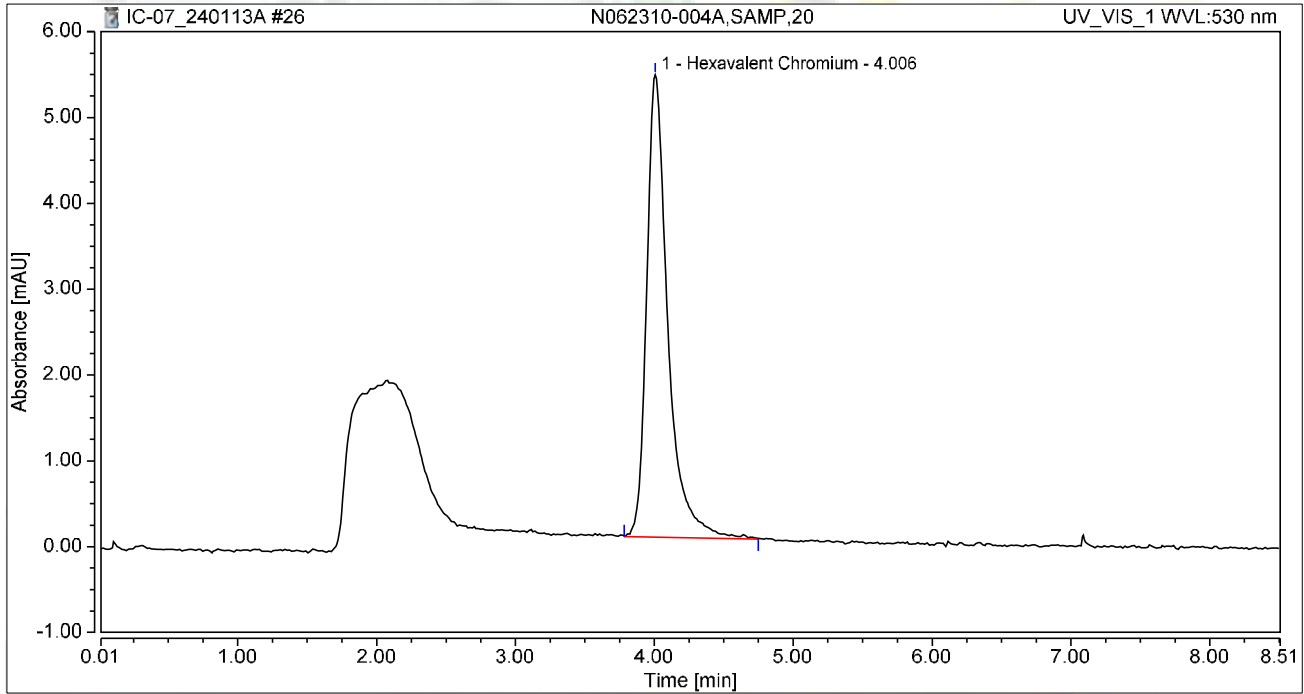
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.726	9.672	100.00	100.00	8.2961
Total:			1.726	9.672	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-004A,SAMP,20	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:10	Sample Weight:	1.0000

Chromatogram



Integration Results

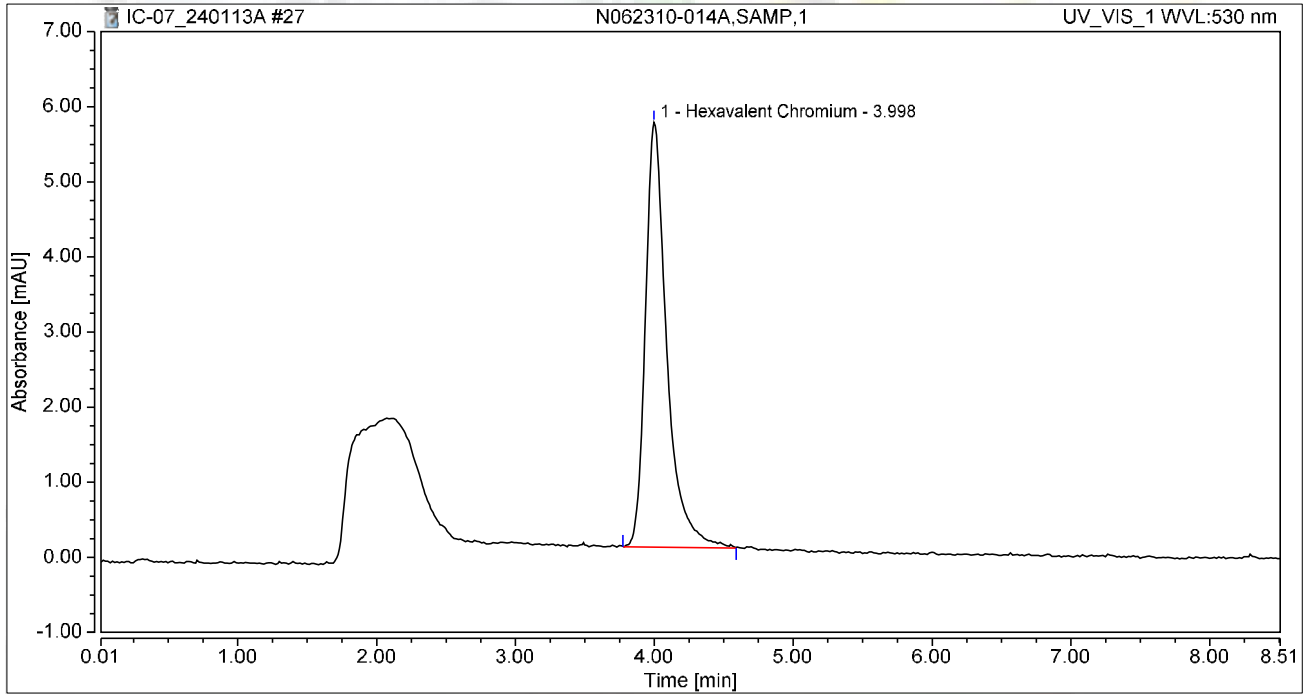
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.956	5.388	100.00	100.00	4.5955
Total:			0.956	5.388	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-014A,SAMP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

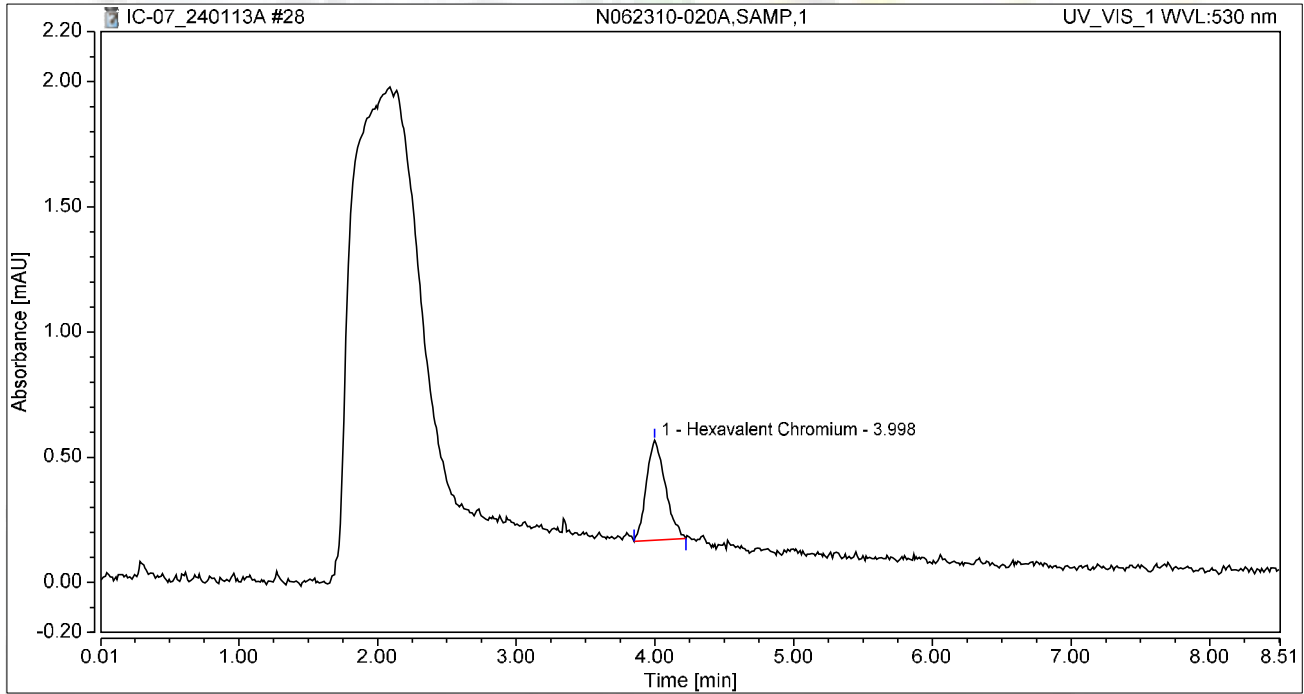
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.012	5.652	100.00	100.00	4.8621
Total:			1.012	5.652	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-020A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:29	Sample Weight:	1.0000

Chromatogram



Integration Results

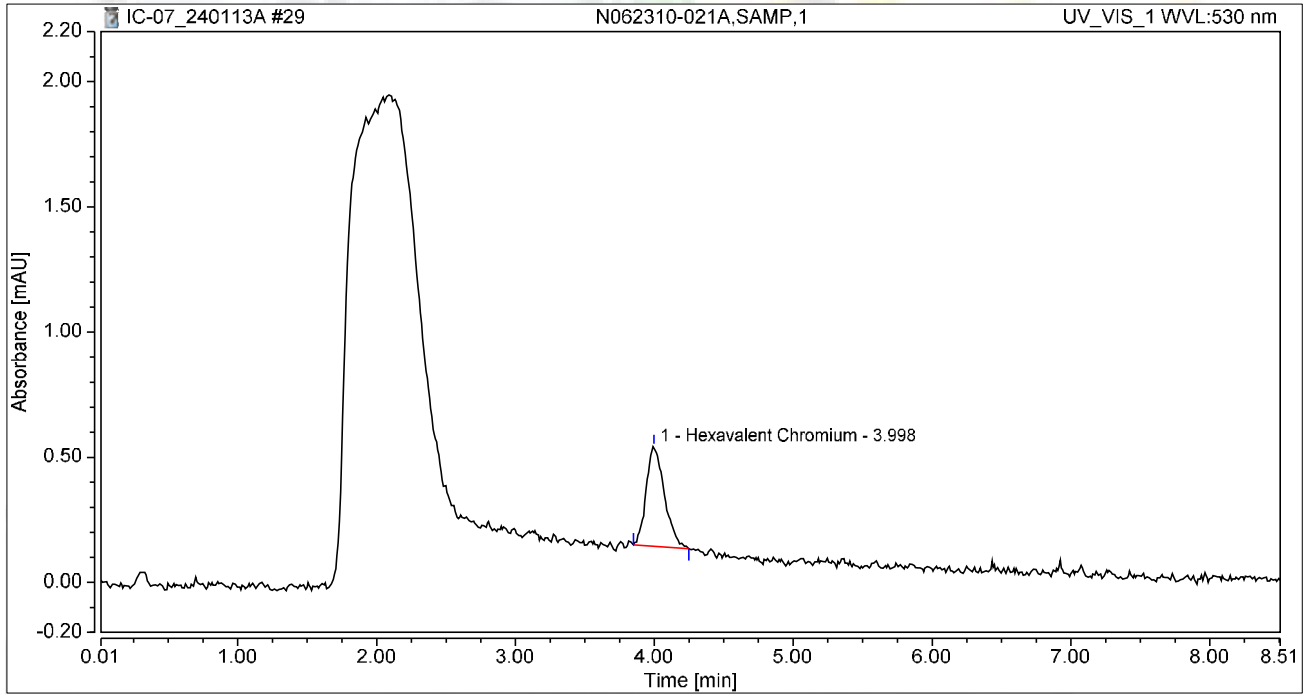
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.063	0.398	100.00	100.00	0.3049
Total:			0.063	0.398	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-021A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:38	Sample Weight:	1.0000

Chromatogram



Integration Results

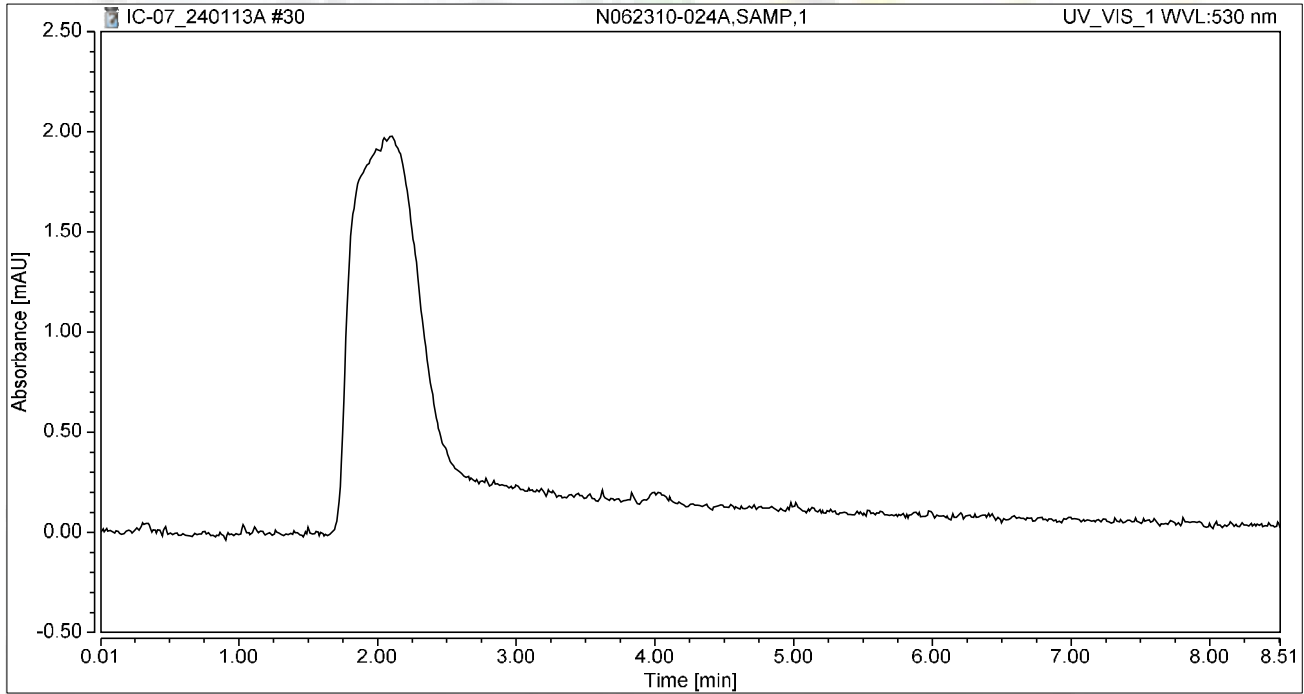
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.061	0.399	100.00	100.00	0.2933
Total:			0.061	0.399	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-024A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:48	Sample Weight:	1.0000

Chromatogram



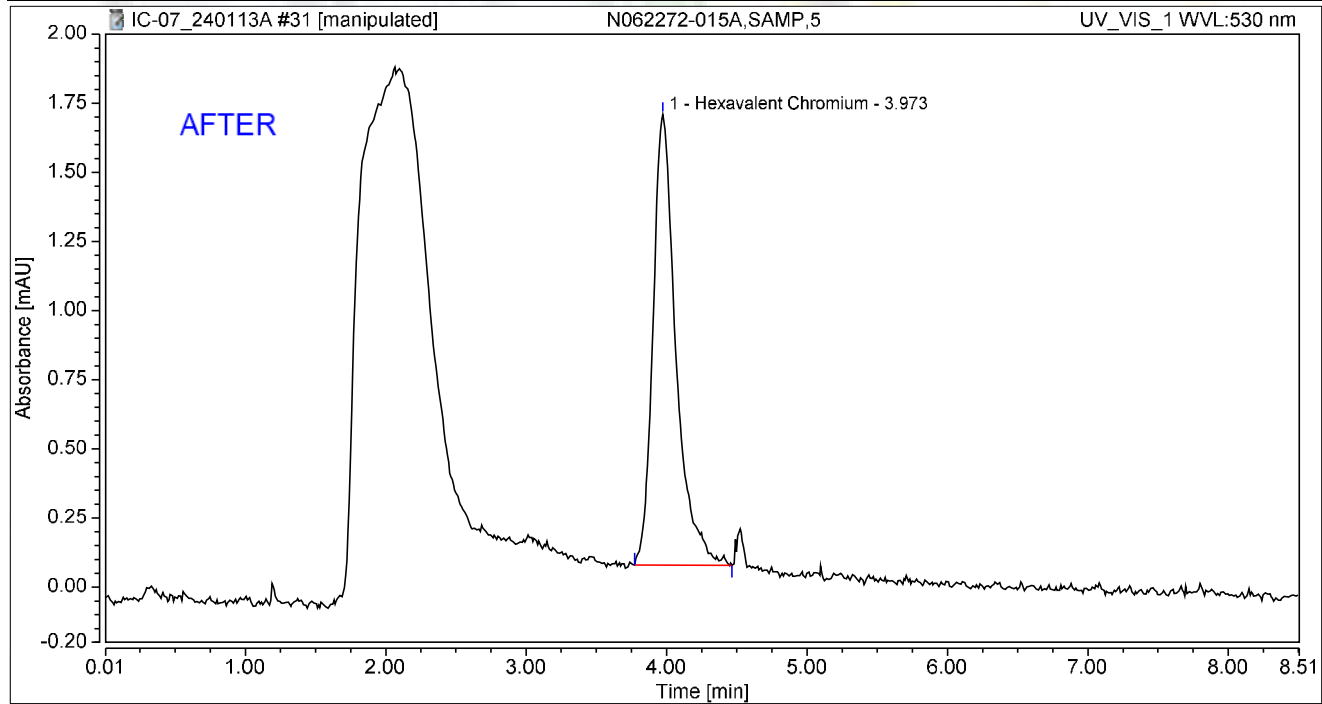
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-015A,SAMP,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Jan/24 14:57	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.309	1.630	100.00	100.00	1.4861
Total:			0.309	1.630	100.00	100.00	

Reviewed by:

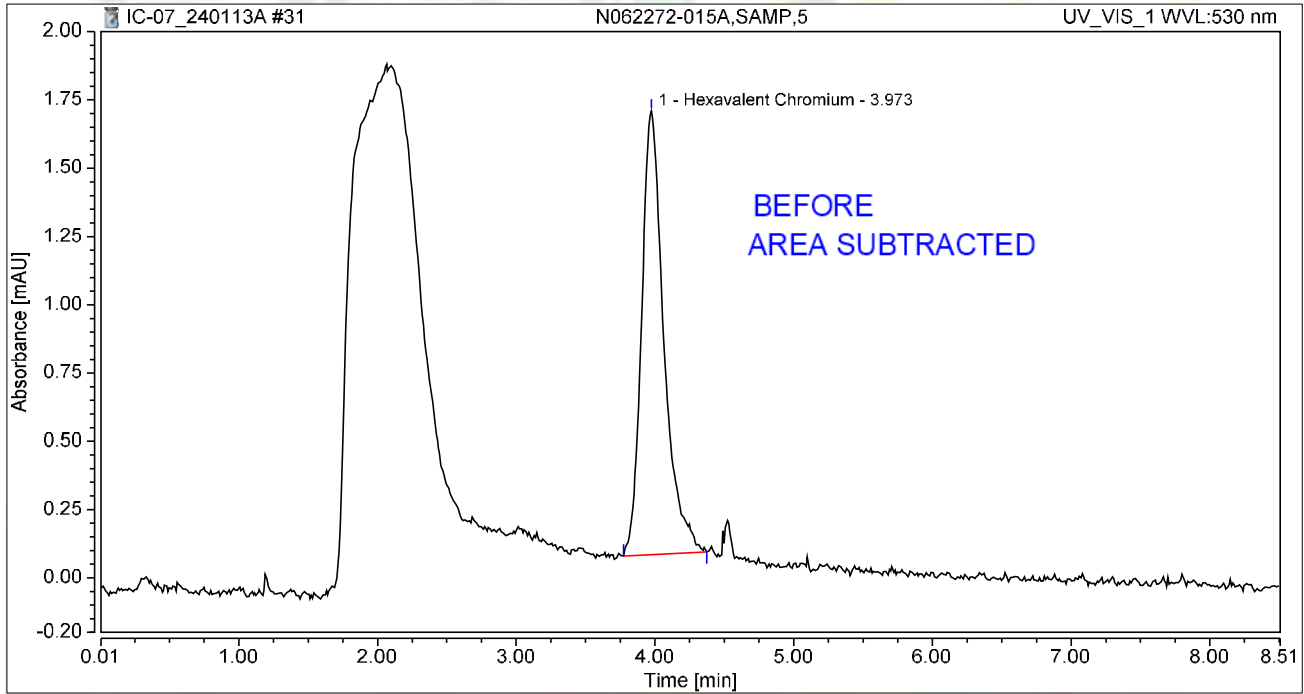
JRB 1/17/2024

Chromatogram and Results

Injection Details

Injection Name:	N062272-015A,SAMP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 14:57	Sample Weight:	1.0000

Chromatogram



Integration Results

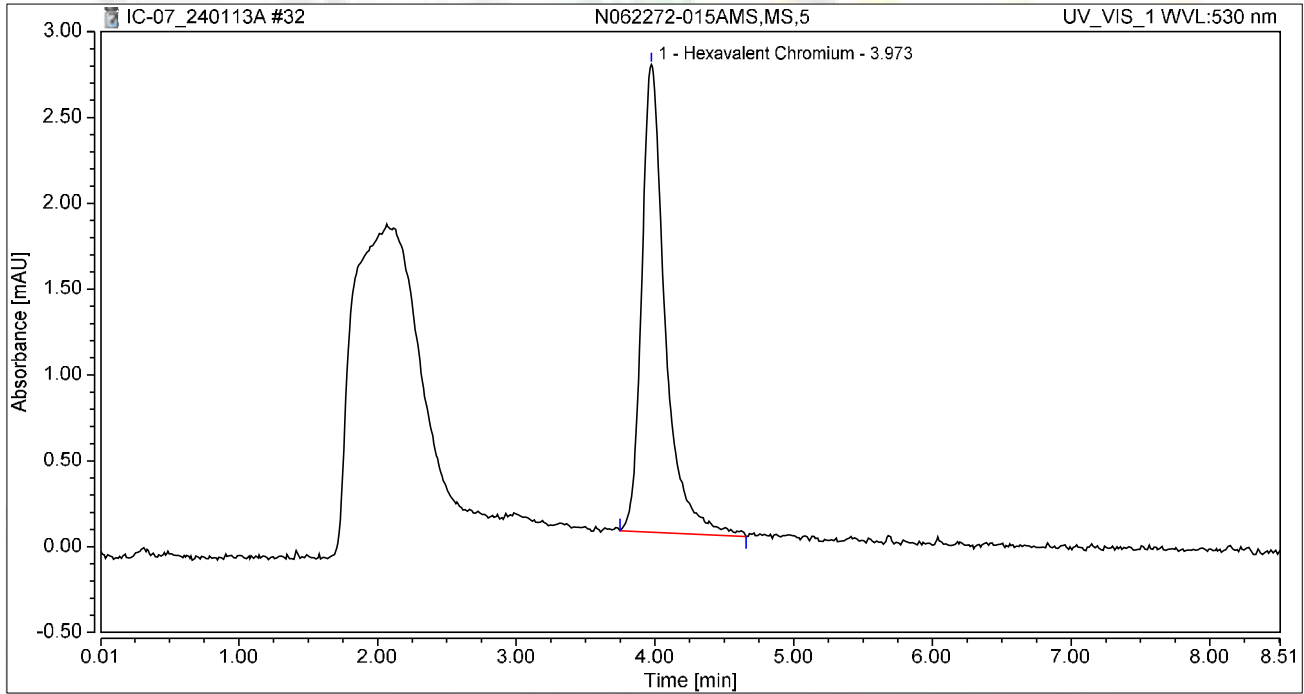
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.303	1.625	100.00	100.00	1.4546
Total:			0.303	1.625	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:07	Sample Weight:	1.0000

Chromatogram



Integration Results

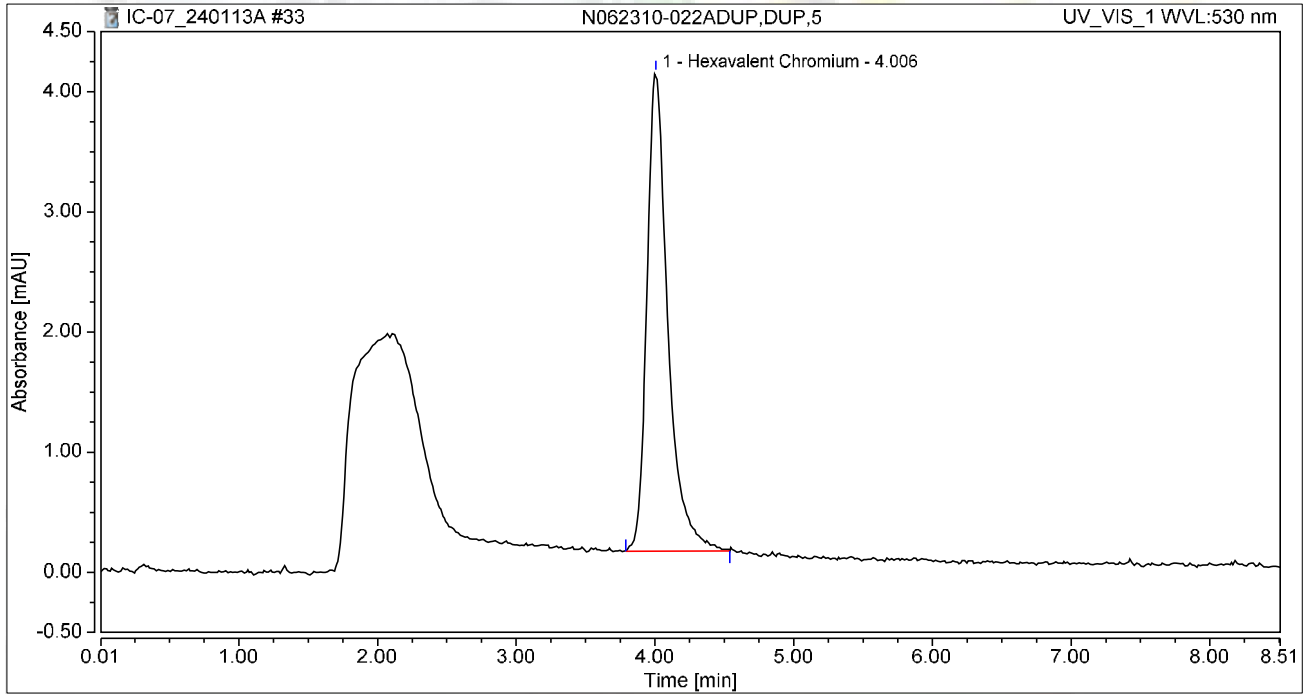
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.533	2.722	100.00	100.00	2.5621
Total:			0.533	2.722	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-022ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:16	Sample Weight:	1.0000

Chromatogram



Integration Results

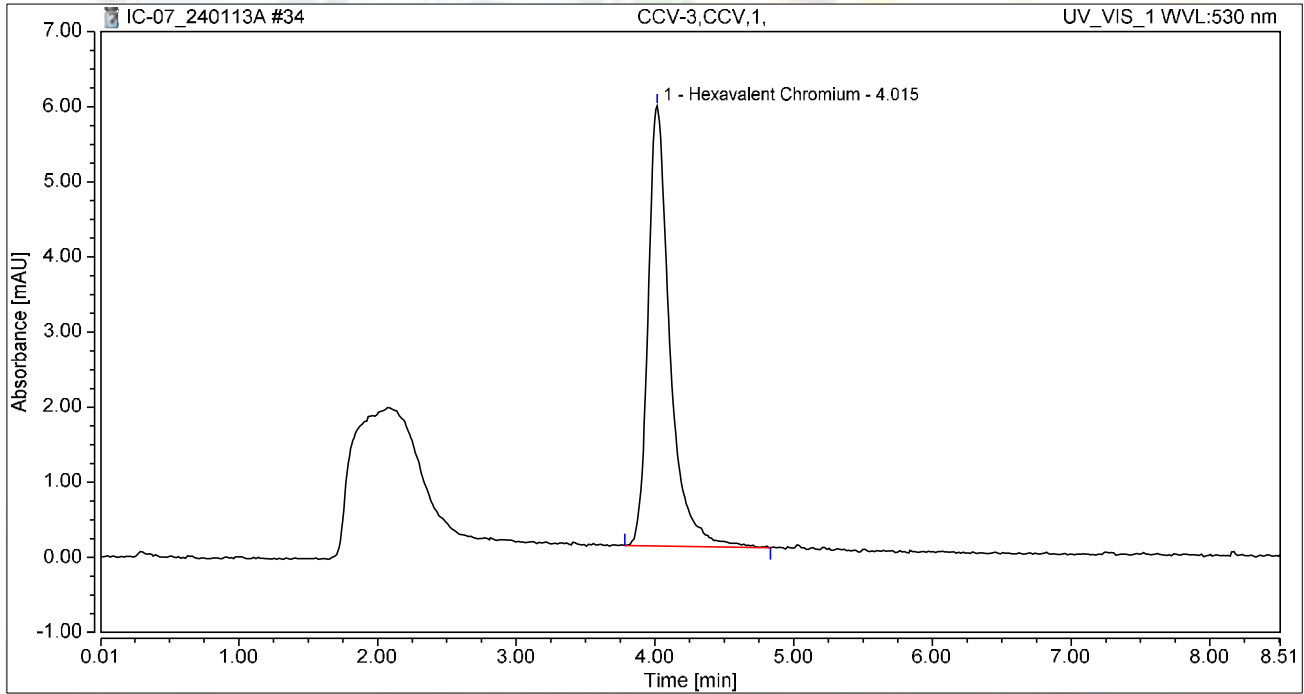
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.699	3.981	100.00	100.00	3.3577
Total:			0.699	3.981	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:25	Sample Weight:	1.0000

Chromatogram



Integration Results

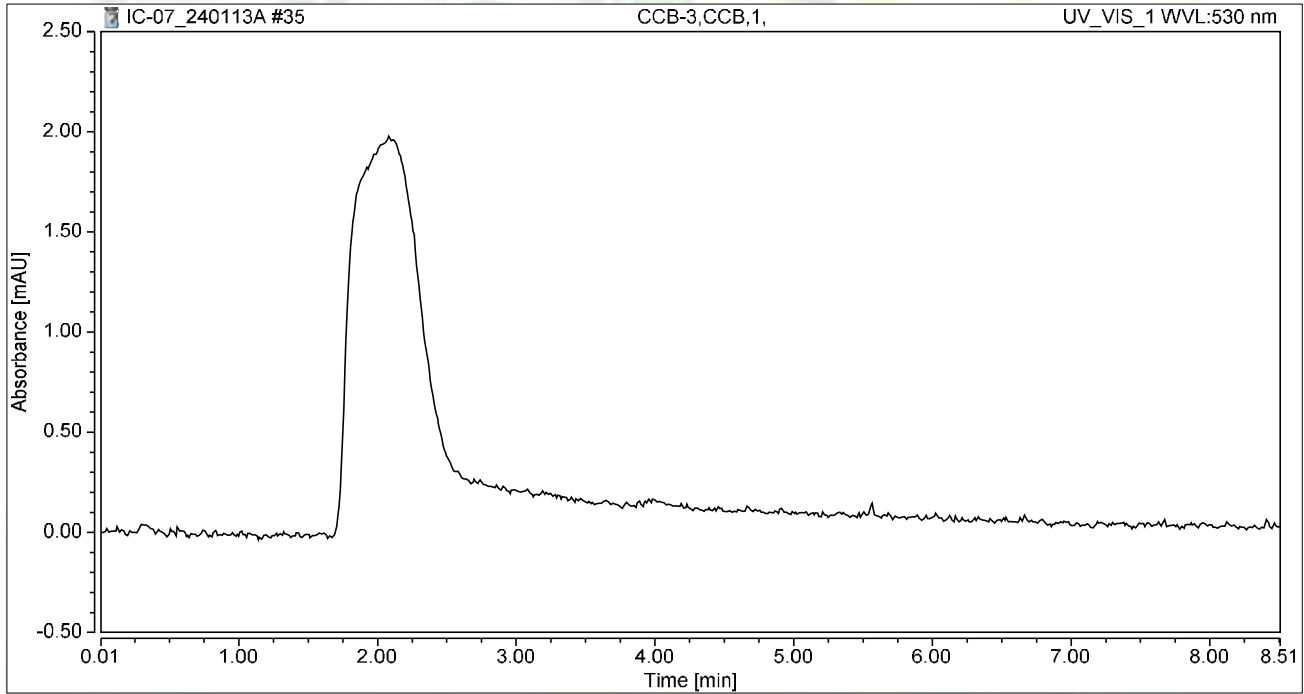
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.067	5.863	100.00	100.00	5.1276
Total:			1.067	5.863	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:35	Sample Weight:	1.0000

Chromatogram



Integration Results

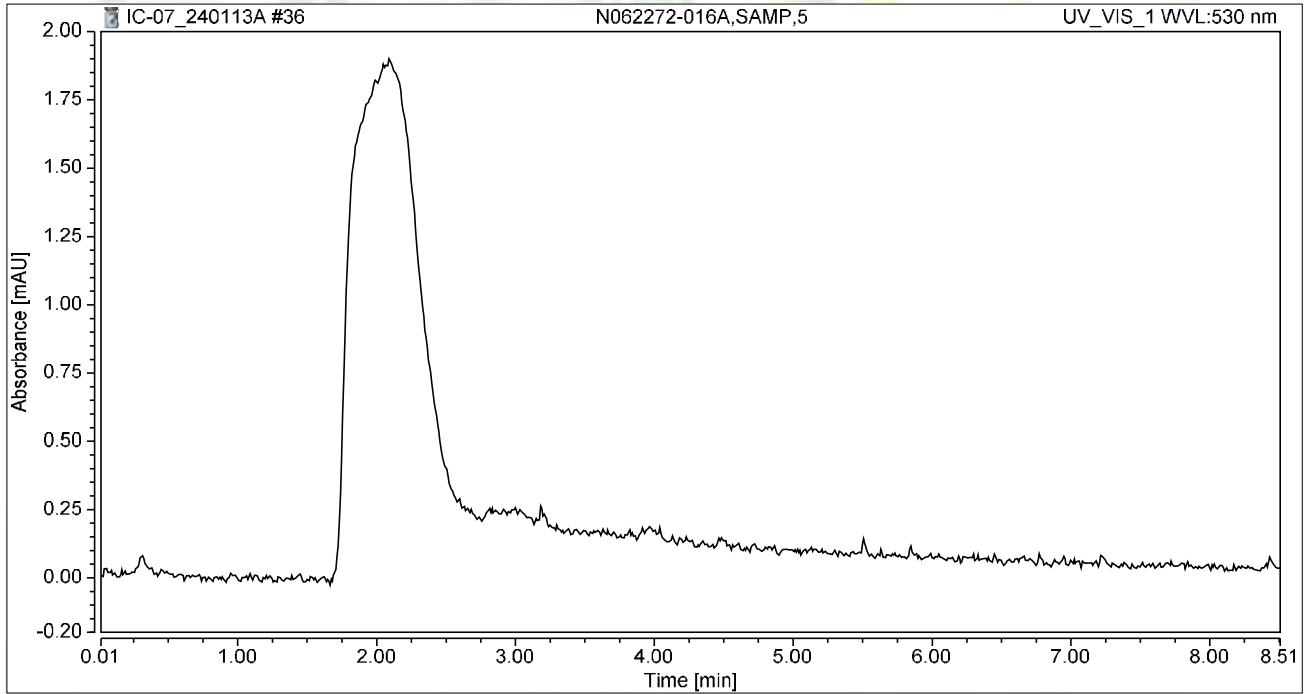
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016A,SAMP,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:44	Sample Weight:	1.0000

Chromatogram



Integration Results

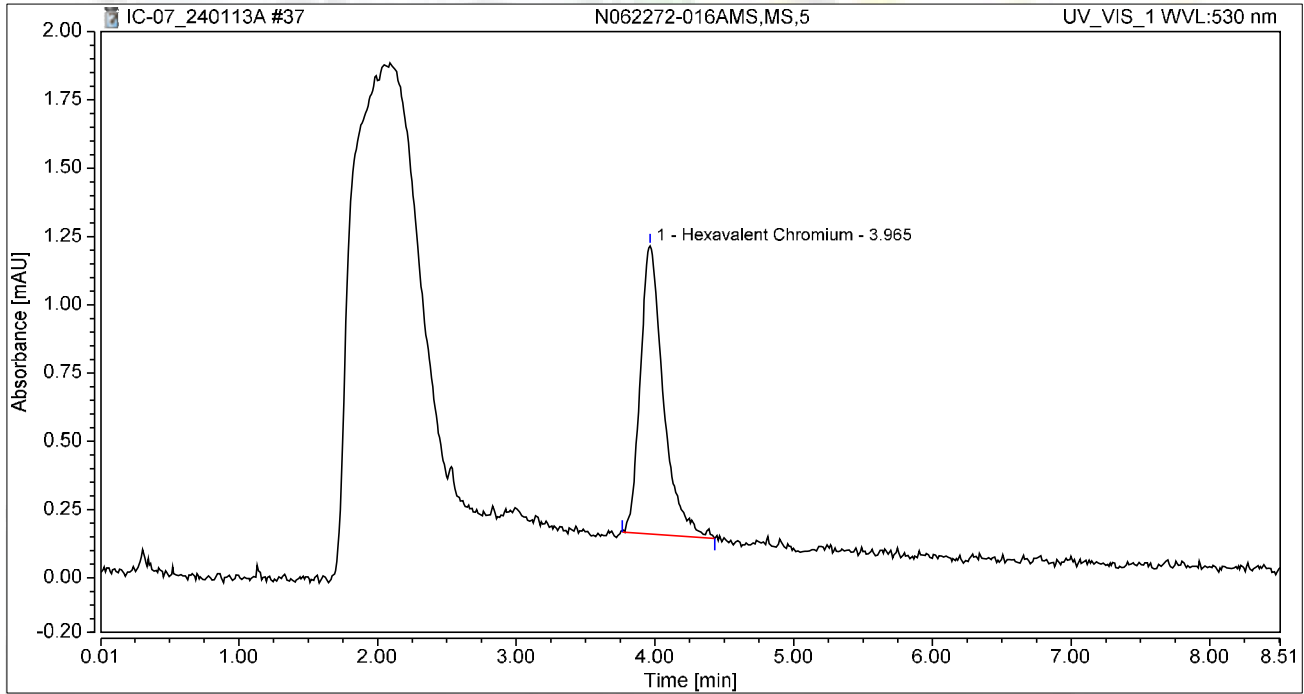
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 15:54	Sample Weight:	1.0000

Chromatogram



Integration Results

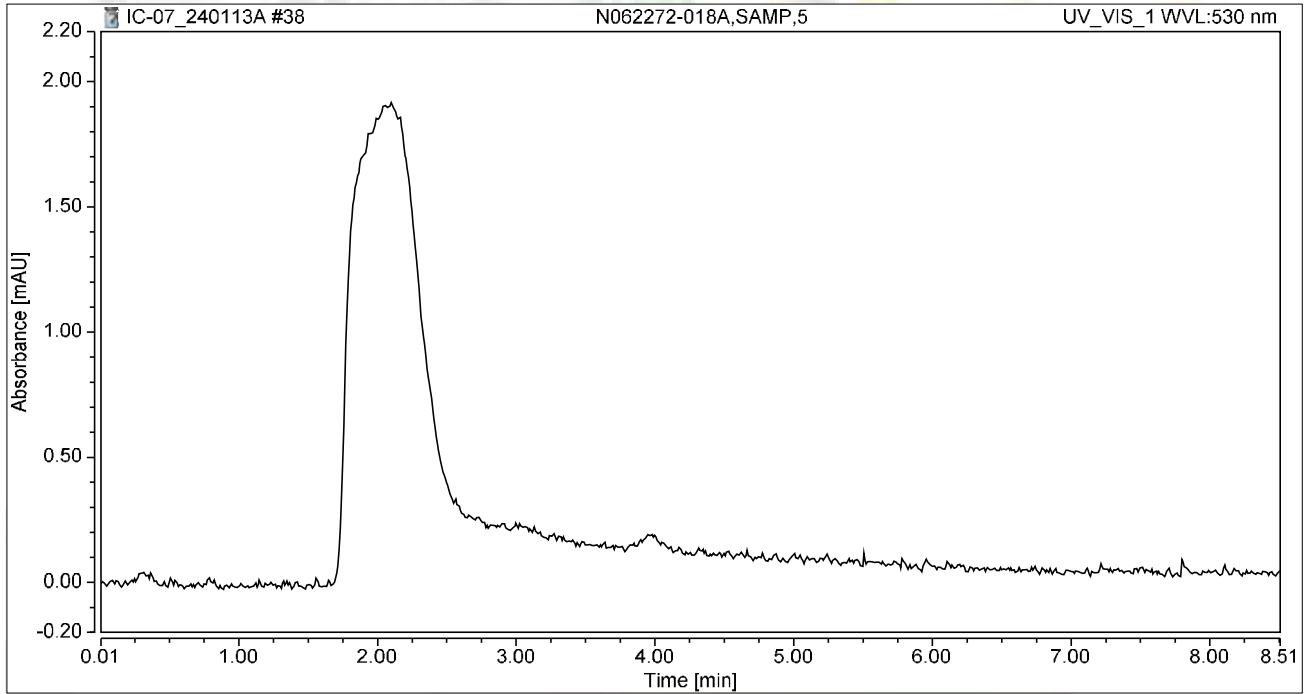
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.203	1.055	100.00	100.00	0.9750
Total:			0.203	1.055	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:03	Sample Weight:	1.0000

Chromatogram



Integration Results

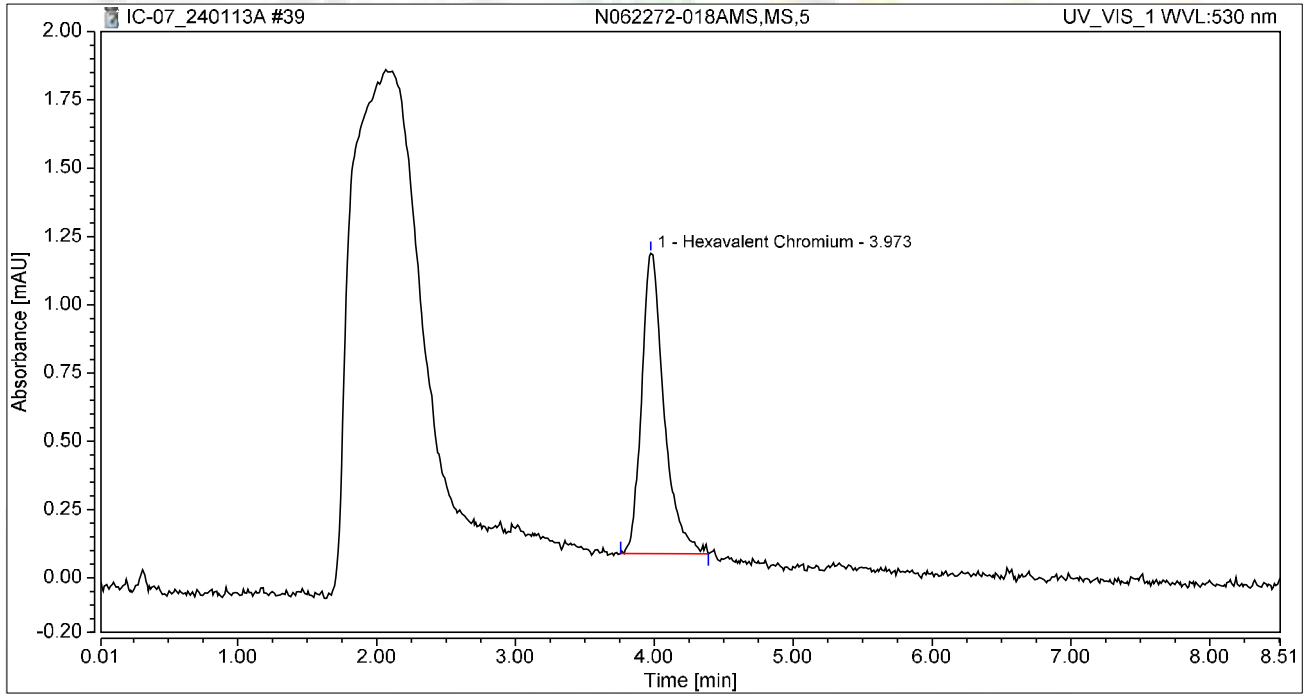
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018AMS,MS,5	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:13	Sample Weight:	1.0000

Chromatogram



Integration Results

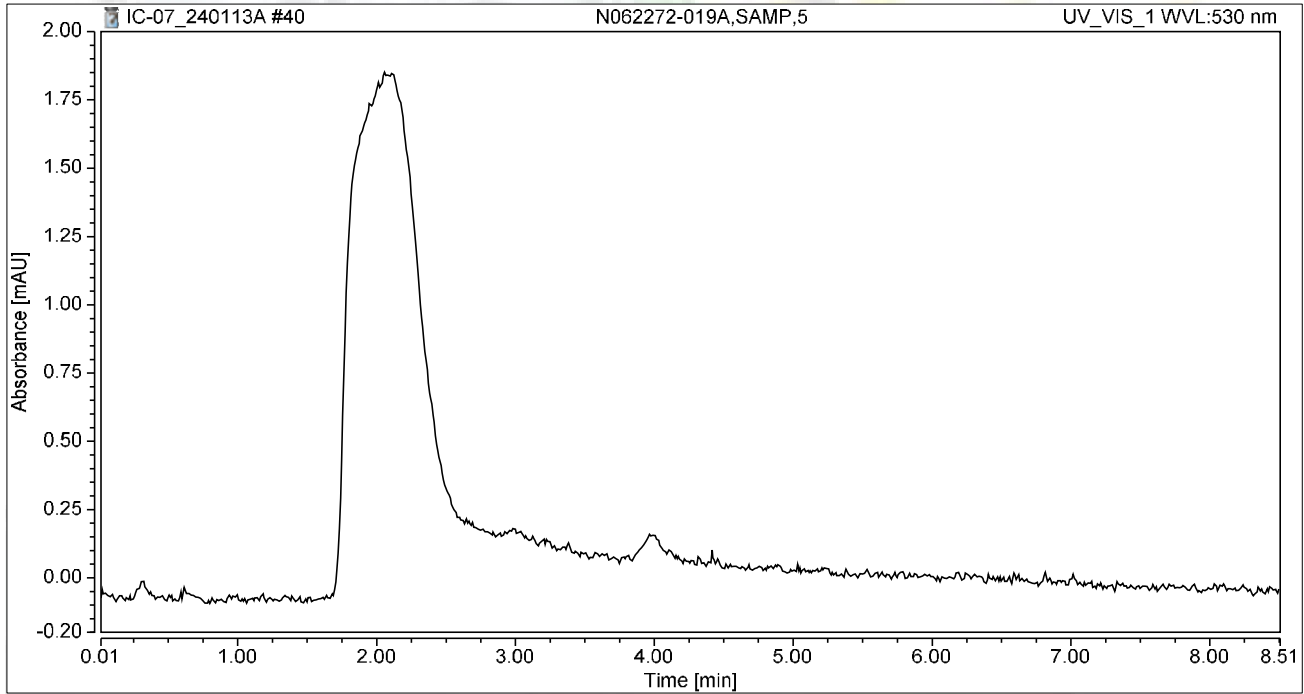
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.205	1.099	100.00	100.00	0.9871
Total:			0.205	1.099	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019A,SAMP,5	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:22	Sample Weight:	1.0000

Chromatogram



Integration Results

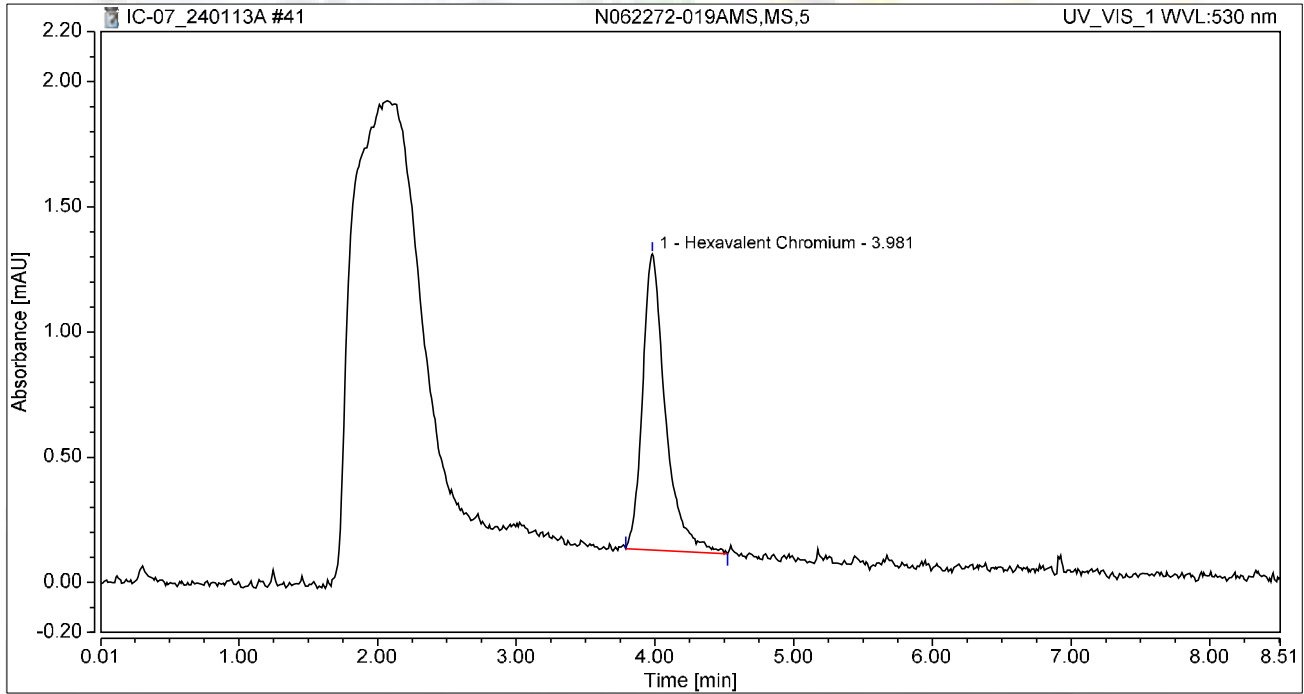
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019AMS,MS,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:32	Sample Weight:	1.0000

Chromatogram



Integration Results

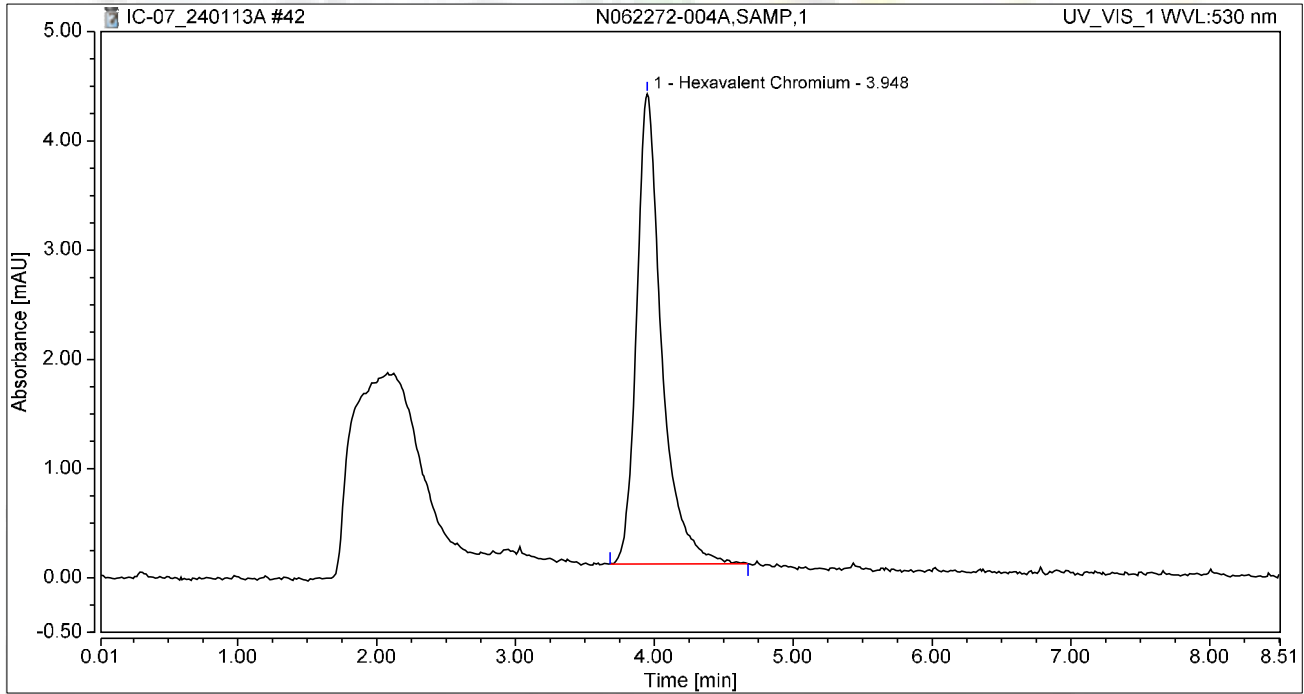
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.226	1.182	100.00	100.00	1.0852
Total:			0.226	1.182	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:41	Sample Weight:	1.0000

Chromatogram



Integration Results

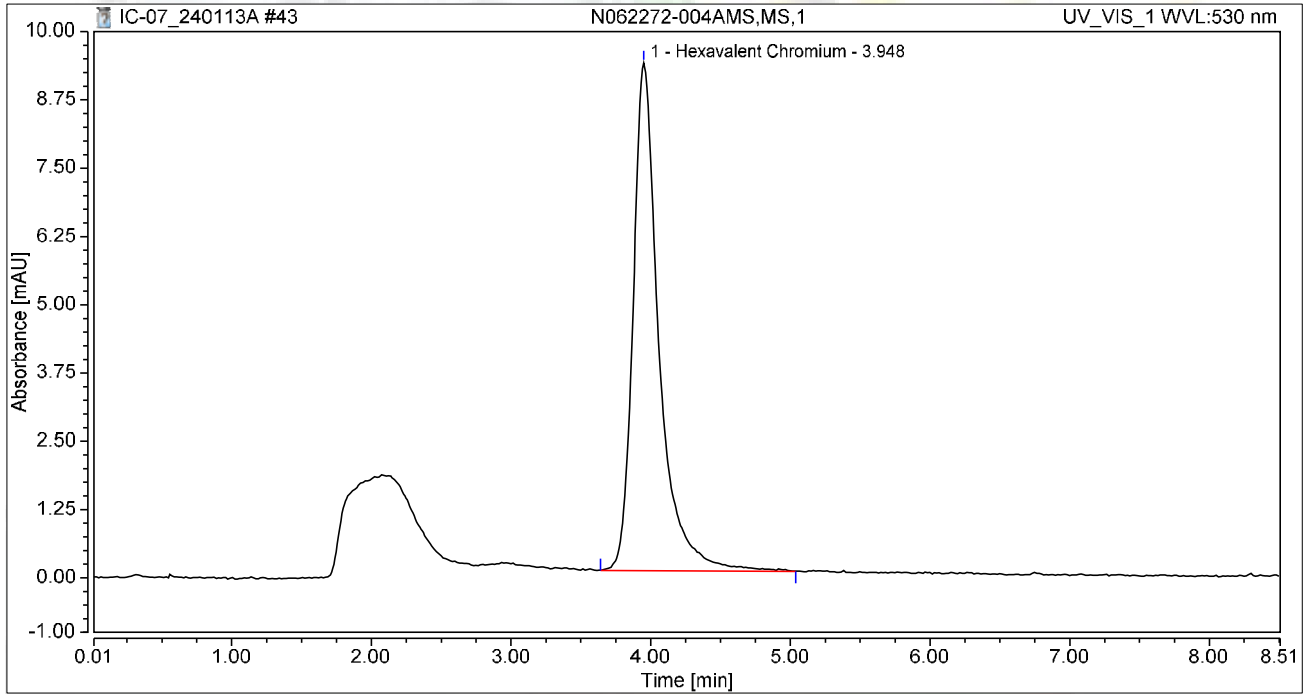
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	0.901	4.305	100.00	100.00	4.3321
Total:			0.901	4.305	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 16:51	Sample Weight:	1.0000

Chromatogram



Integration Results

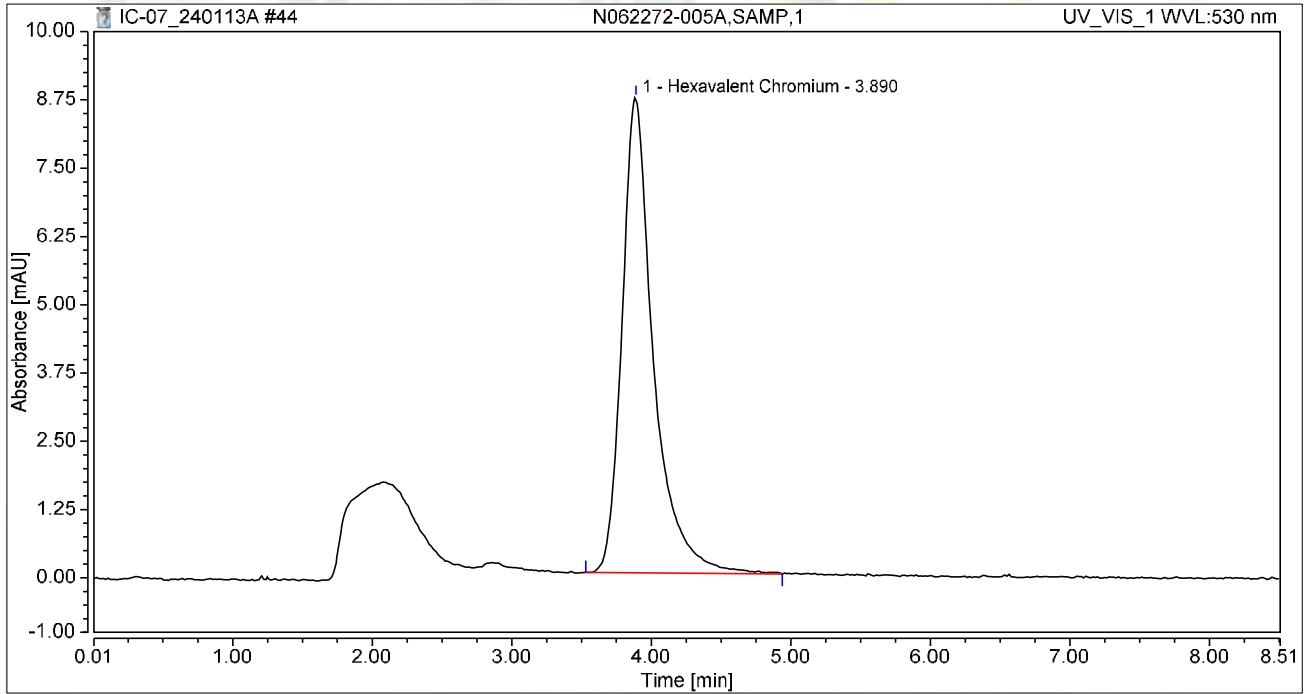
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.948	1.997	9.298	100.00	100.00	9.5964
Total:			1.997	9.298	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:00	Sample Weight:	1.0000

Chromatogram



Integration Results

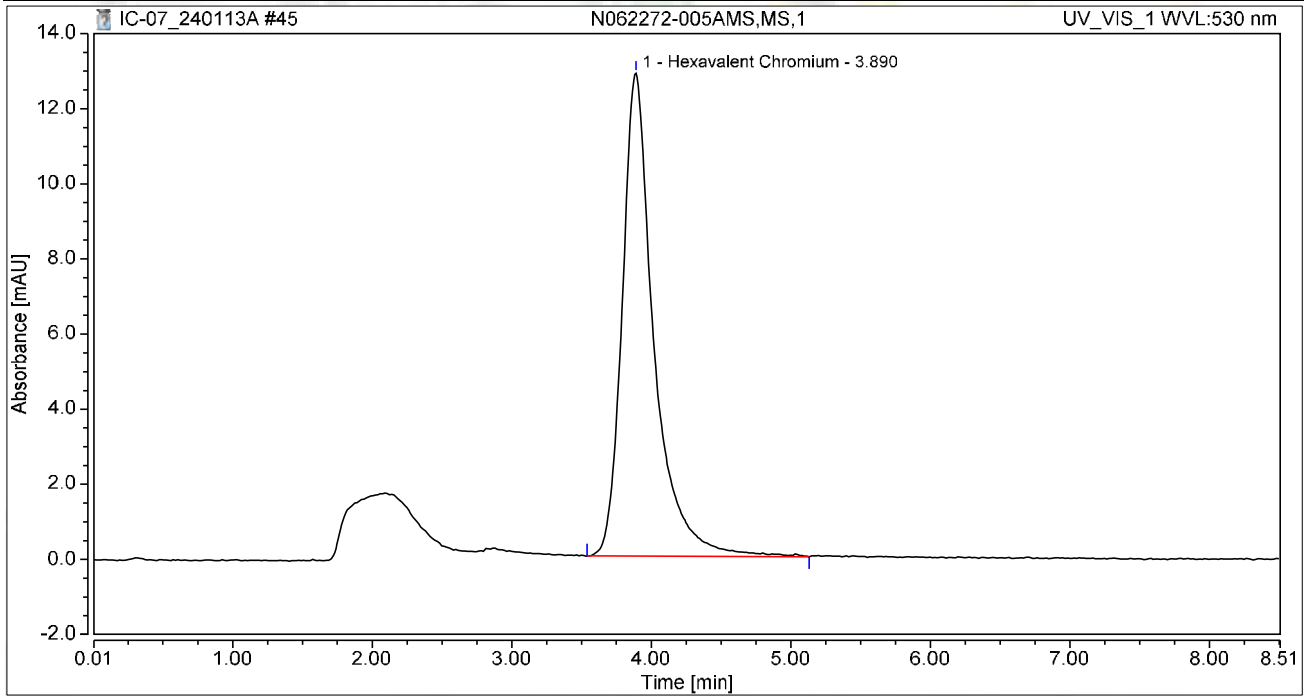
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	2.274	8.707	100.00	100.00	10.9269
Total:			2.274	8.707	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:10	Sample Weight:	1.0000

Chromatogram



Integration Results

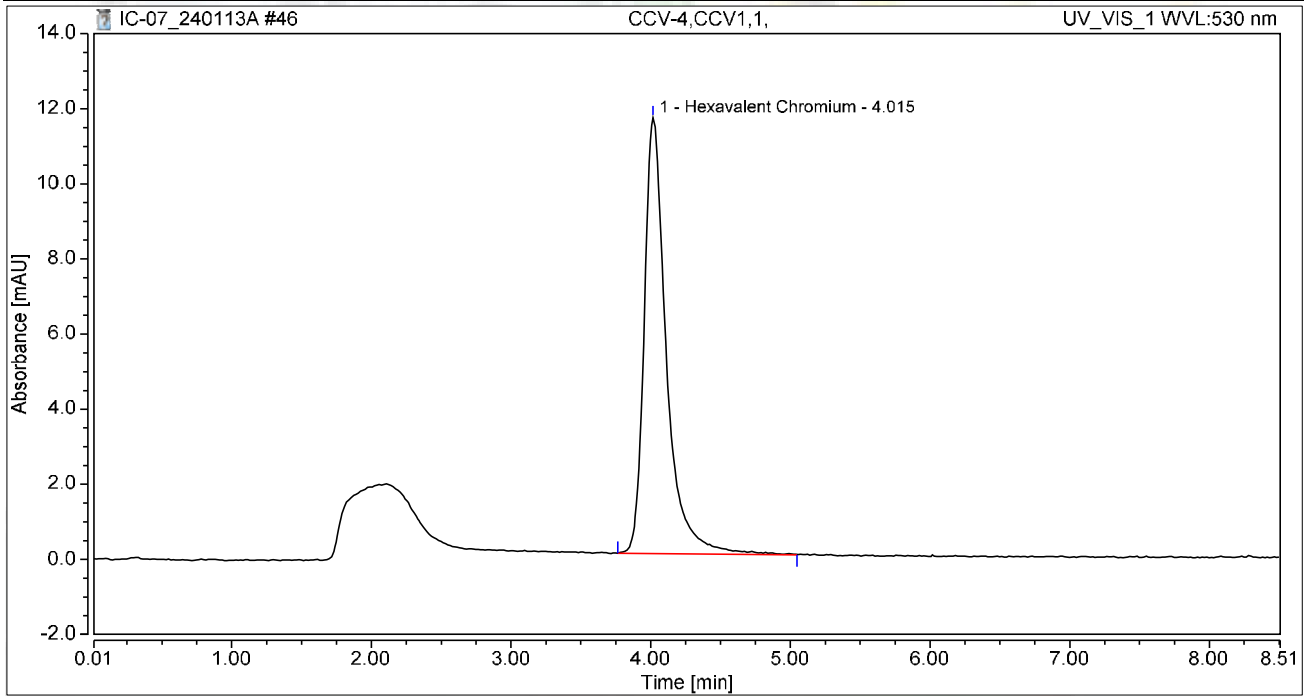
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	3.384	12.858	100.00	100.00	16.2611
Total:			3.384	12.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:19	Sample Weight:	1.0000

Chromatogram



Integration Results

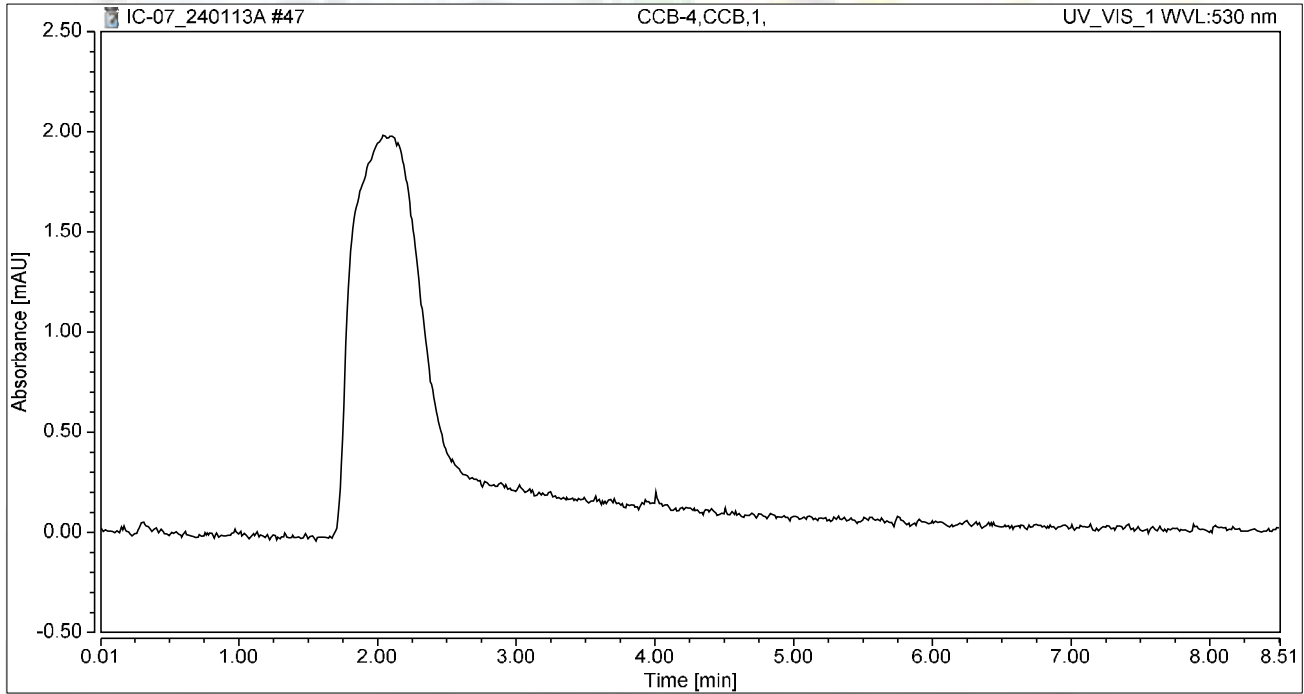
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.139	11.604	100.00	100.00	10.2818
Total:			2.139	11.604	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:28	Sample Weight:	1.0000

Chromatogram



Integration Results

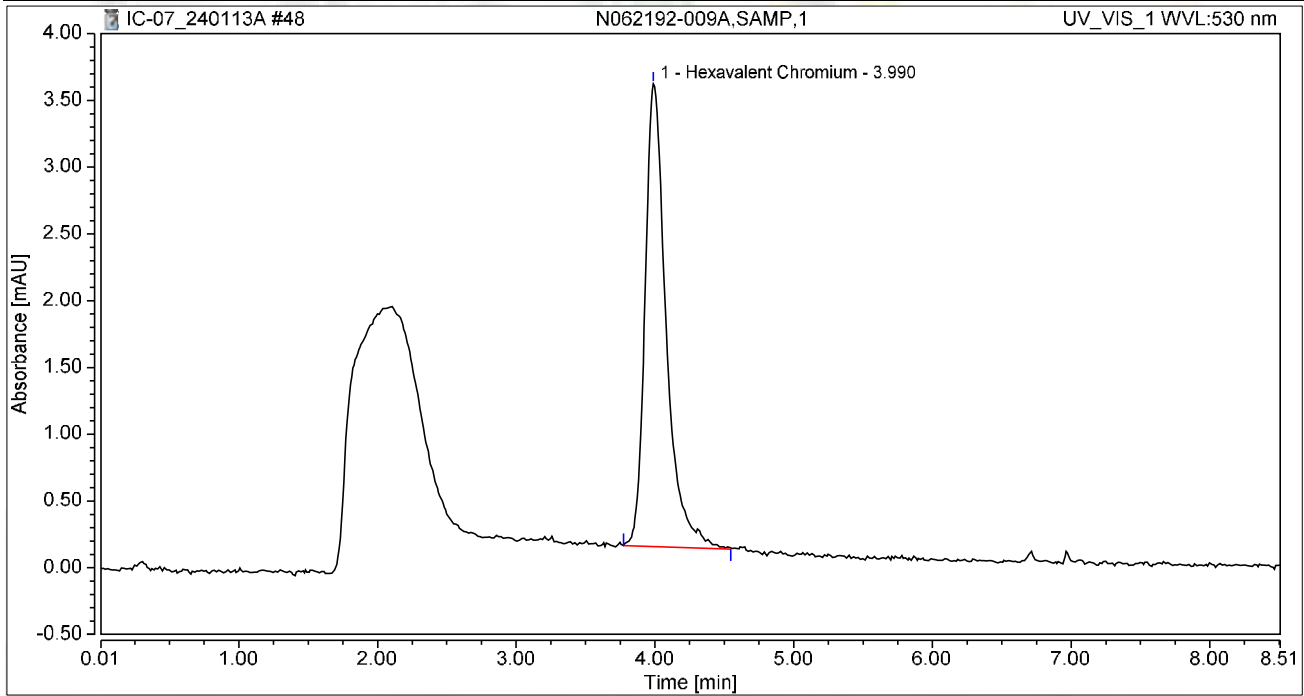
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062192-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:38	Sample Weight:	1.0000

Chromatogram



Integration Results

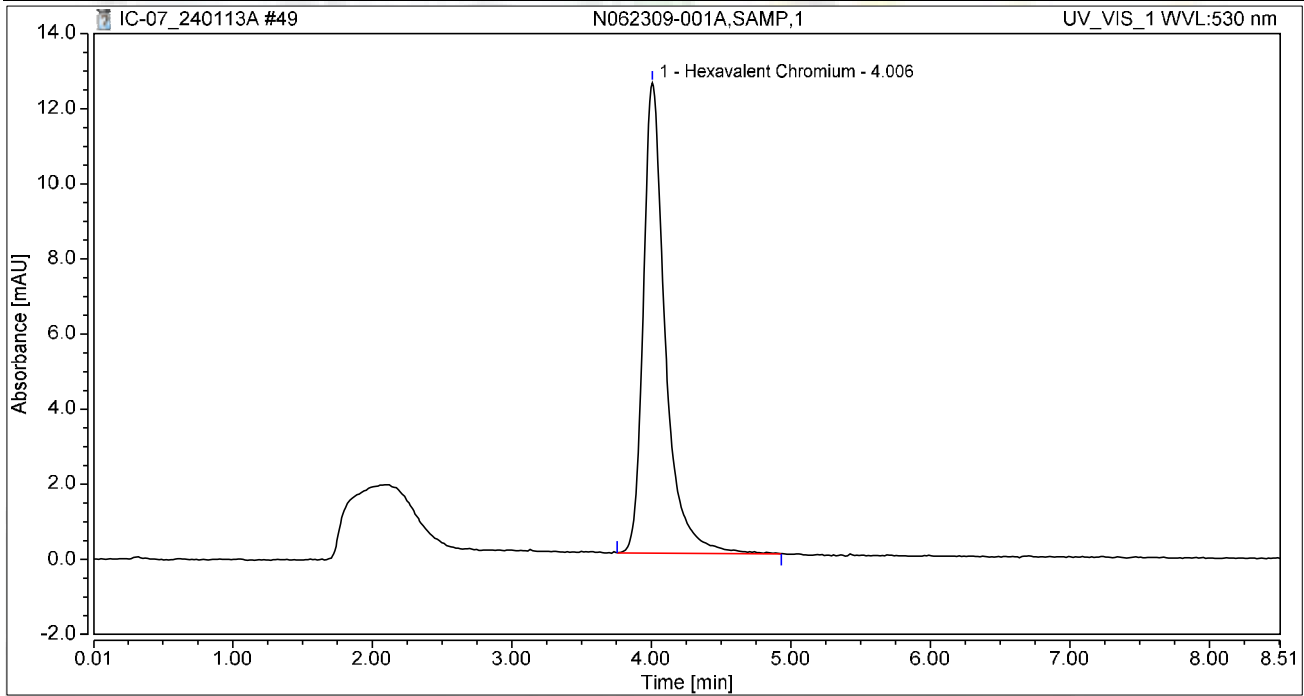
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.612	3.465	100.00	100.00	2.9392
Total:			0.612	3.465	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 17:47	Sample Weight:	1.0000

Chromatogram



Integration Results

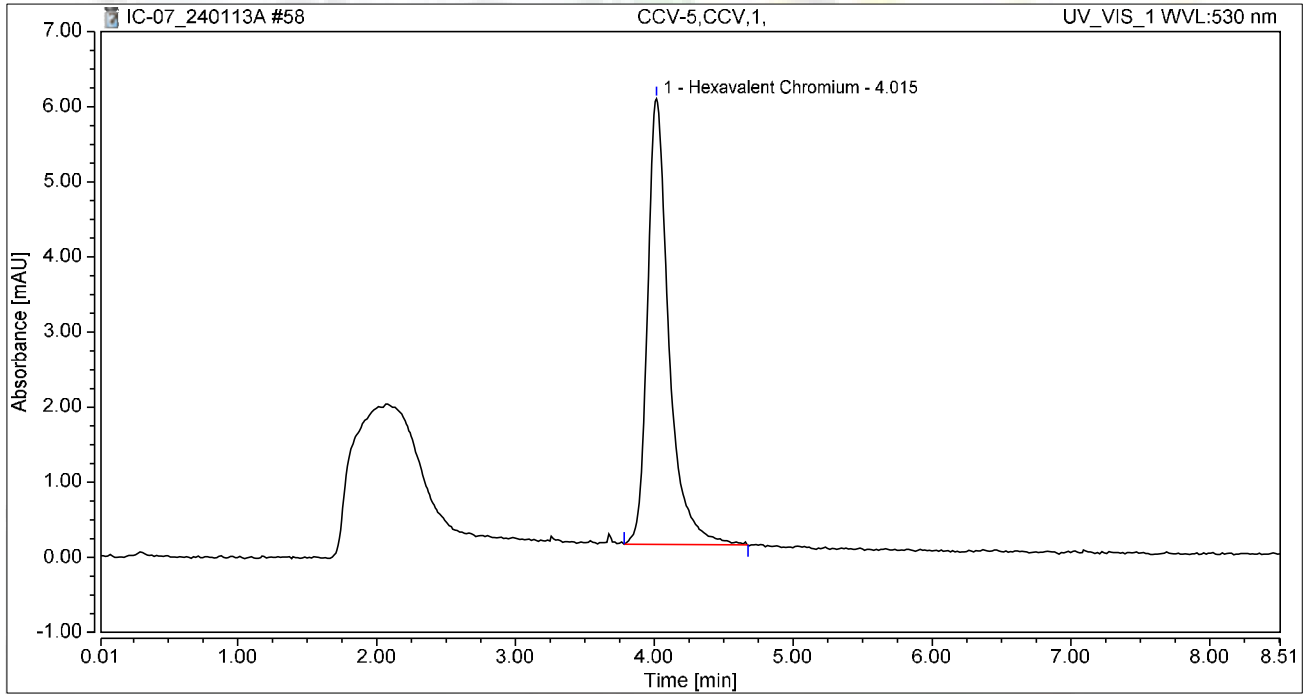
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.279	12.524	100.00	100.00	10.9504
Total:			2.279	12.524	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 19:13	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.060	5.934	100.00	100.00	5.0956
Total:			1.060	5.934	100.00	100.00	



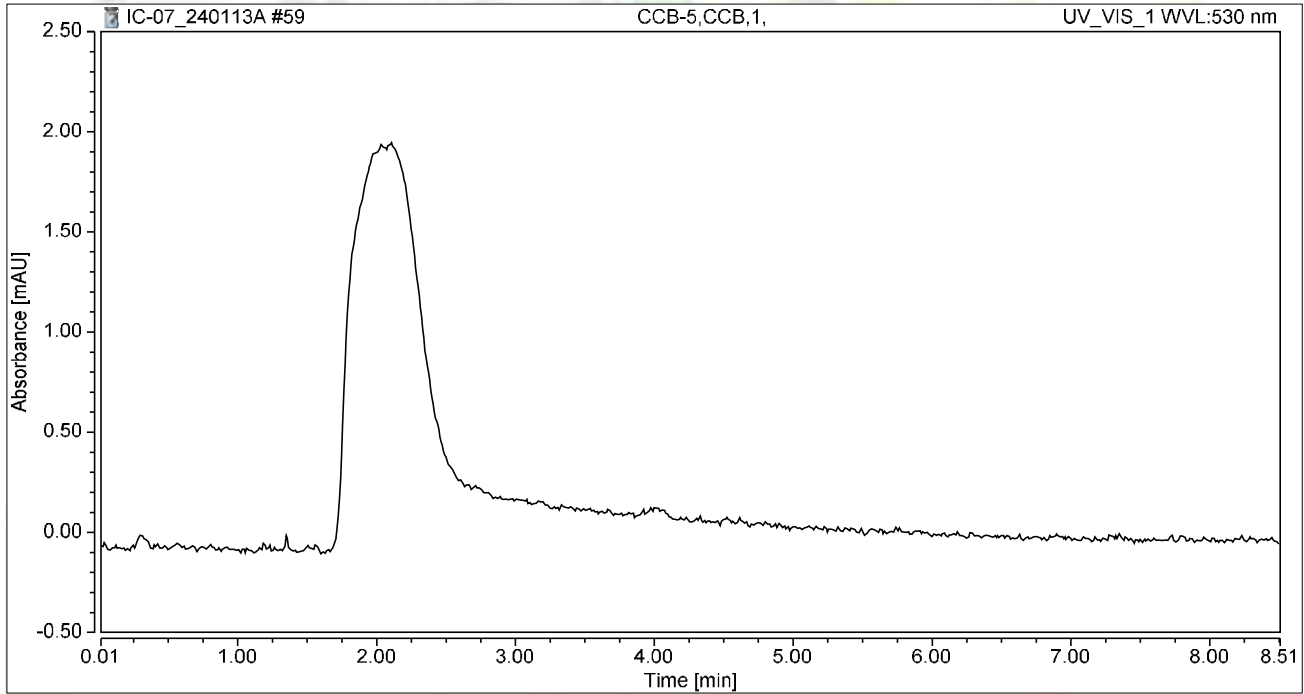
jrb 1/17/2024

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Jan/24 19:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

jrb 1/17/2024

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180258
 ASSET #: N062272

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 1/10/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	x		
2. Matrix / units correct	x		
3. Is QC present and complete?	x		
4. Are analytical results correct? (dilutions, calculations)	x		
5. Is first level review correct and complete?	x		

1st Level Reviewer RBA

Date: —

2nd Level Reviewer JRB 1/25/2024

Date: —

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062272-004B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.2916 * 10 \\ &= 2.916\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 2.9$$

Reviewed by:

d/Rocha 1/28/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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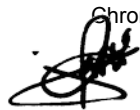
Sequence: IC-08_240102A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
12	N062100-001A,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062054-002A,SAMP,5	Unknown	14	1000.0	Anions Default2	EPA 300_0_240102	Finished
14	N062054-001A,SAMP,5	Unknown	15	1000.0	Anions Default2	EPA 300_0_240102	Finished
15	N062054-003A,SAMP,5	Unknown	16	1000.0	Anions Default2	EPA 300_0_240102	Finished
16	N062054-004A,SAMP,5	Unknown	17	1000.0	Anions Default2	EPA 300_0_240102	Finished
17	N062054-005A,SAMP,5	Unknown	18	1000.0	Anions Default2	EPA 300_0_240102	Finished
18	N062054-006A,SAMP,5	Unknown	19	1000.0	Anions Default2	EPA 300_0_240102	Finished
19	BLANK	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
22	N062100-001ADUP,DUP,10	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062100-001AMS,MS,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062100-001AMSD,MSD,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062054-002AMS,MS,5	Unknown	26	1000.0	Anions Default2	EPA 300_0_240102	Finished
26	N062054-002AMSD,MSD,5	Unknown	27	1000.0	Anions Default2	EPA 300_0_240102	Finished
27	N062054-001ADUP,DUP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240102	Finished
28	BLANK	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
29	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
30	CCV-2,CCV,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
31	CCB-2,CCB,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:



Sequence: IC-08_240102A
Operator: IC-05

Page 2 of 2
Printed: 1/10/2024 6:39:39 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	ICV,ICV,1	1/2/2024 1:57:20 PM	ICV, IWST-231228F
9	ICB,ICB,1	1/2/2024 2:12:38 PM	CCB
10	MB-H2O,MBLK,1	1/2/2024 2:27:56 PM	MB
11	LCS-H2O,LCS,1	1/2/2024 2:43:13 PM	LCS, IWST-231228F
12	N062100-001A,SAMP,10	1/2/2024 3:09:01 PM	SAMP,1>10mL,
13	N062054-002A,SAMP,5	1/2/2024 3:46:10 PM	SAMP,2>10mL,
14	N062054-001A,SAMP,5	1/2/2024 4:08:28 PM	SAMP,2>10mL,
15	N062054-003A,SAMP,5	1/2/2024 4:30:47 PM	SAMP,2>10mL,
16	N062054-004A,SAMP,5	1/2/2024 4:53:05 PM	SAMP,2>10mL,
17	N062054-005A,SAMP,5	1/2/2024 5:15:23 PM	SAMP,2>10mL,
18	N062054-006A,SAMP,5	1/2/2024 5:37:42 PM	SAMP,2>10mL,
19	BLANK	1/2/2024 5:59:59 PM	BLANK
20	CCV-1,CCV,1	1/2/2024 6:15:17 PM	CCV, IWST-231228E
21	CCB-1,CCB,1	1/2/2024 6:30:36 PM	CCB
22	N062100-001ADUP,DUP,10	1/2/2024 6:45:54 PM	DUP,1>10mL,
23	N062100-001AMS,MS,10	1/2/2024 7:01:13 PM	MS,1>10mL,
24	N062100-001AMSD,MSD,10	1/2/2024 7:16:31 PM	MSD,1>10mL,
25	N062054-002AMS,MS,5	1/2/2024 7:31:49 PM	MS,2>10mL,
26	N062054-002AMSD,MSD,5	1/2/2024 7:54:07 PM	MSD,2>10mL,
27	N062054-001ADUP,DUP,5	1/2/2024 8:16:26 PM	DUP,2>10mL,
28	BLANK	1/2/2024 8:38:44 PM	BLANK
29	BLANK	1/2/2024 8:54:02 PM	BLANK
30	CCV-2,CCV,1	1/2/2024 9:09:19 PM	CCV, IWST-231228E
31	CCB-2,CCB,1	1/2/2024 9:24:38 PM	CCB

Sequence: IC-08_240110A
Operator: IC-05

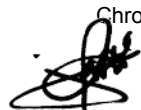
Page 1 of 4
Printed: 1/11/2024 2:00:11 AM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 68

Created: 1/9/2024 12:25:14 PM by IC-05
Last Update: 1/10/2024 5:58:49 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240102	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240102	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240102	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062272-001B,SAMP,5	Unknown	6	1000.0	Anions Default	EPA 300_0_240102	Finished
14	N062272-002B,SAMP,5	Unknown	7	1000.0	Anions Default	EPA 300_0_240102	Finished
15	N062272-003B,SAMP,5	Unknown	8	1000.0	Anions Default	EPA 300_0_240102	Finished
16	N062272-004B,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
17	N062272-005B,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
18	N062272-006B,SAMP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
19	N062272-007B,SAMP,5	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
20	N062272-008B,SAMP,5	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCV-2,CCV,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
22	CCB-2,CCB,1	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062272-009B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062272-010B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062272-004BDUP,DUP,10	Unknown	15	1000.0	Anions Default	EPA 300_0_240102	Finished
26	N062272-004BMS,MS,10	Unknown	16	1000.0	Anions Default	EPA 300_0_240102	Finished
27	N062272-004BMSD,MSD,10	Unknown	17	1000.0	Anions Default	EPA 300_0_240102	Finished
28	N062272-006BMS,MS,10	Unknown	18	1000.0	Anions Default	EPA 300_0_240102	Finished
29	N062272-011B,SAMP,10	Unknown	19	1000.0	Anions Default	EPA 300_0_240102	Finished
30	N062272-013B,SAMP,10	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
31	N062272-014B,SAMP,10	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
32	N062272-015B,SAMP,10	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
33	CCV-3,CCV,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
34	CCB-3,CCB,1	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
35	N062272-016B,SAMP,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
36	N062272-017B,SAMP,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
37	N062272-018B,SAMP,10	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
38	N062272-019B,SAMP,10	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
39	N062272-020B,SAMP,10	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
40	N062272-002B,SAMP,20	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
41	N062272-002BMS,MS,20	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:



Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)

1/11/2024

IC8 RBA 1/11/2024 2:00:46 AM

399

Sequence: IC-08_240110A
Operator: IC-05

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Printed: 1/11/2024 2:00:11 AM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 68

Created: 1/9/2024 12:25:14 PM by IC-05
Last Update: 1/10/2024 5:58:49 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	BLANK	1/10/2024 9:21:31 AM	BLANK
9	CCV-1,CCV,1	1/10/2024 9:36:49 AM	CCV, IWST-240105A
10	CCB-1,CCB,1	1/10/2024 9:52:07 AM	CCB
11	MB-H2O,MBLK,1	1/10/2024 10:07:25 AM	MB
12	LCS-H2O,LCS,1	1/10/2024 10:22:43 AM	LCS, IWST-240105B
13	N062272-001B,SAMP,5	1/10/2024 10:38:01 AM	SAMP,2>10mL,
14	N062272-002B,SAMP,5	1/10/2024 10:53:19 AM	SAMP,2>10mL,
15	N062272-003B,SAMP,5	1/10/2024 11:08:36 AM	SAMP,2>10mL,
16	N062272-004B,SAMP,10	1/10/2024 11:23:54 AM	SAMP,1>10mL,
17	N062272-005B,SAMP,10	1/10/2024 11:39:12 AM	SAMP,1>10mL,
18	N062272-006B,SAMP,10	1/10/2024 11:54:30 AM	SAMP,1>10mL,
19	N062272-007B,SAMP,5	1/10/2024 12:09:48 PM	SAMP,2>10mL,
20	N062272-008B,SAMP,5	1/10/2024 12:25:06 PM	SAMP,2>10mL,
21	CCV-2,CCV,1	1/10/2024 12:40:24 PM	CCV, IWST-240105A
22	CCB-2,CCB,1	1/10/2024 12:55:42 PM	CCB
23	N062272-009B,SAMP,10	1/10/2024 1:11:00 PM	SAMP,1>10mL,
24	N062272-010B,SAMP,10	1/10/2024 1:26:17 PM	SAMP,1>10mL,
25	N062272-004BDUP,DUP,10	1/10/2024 1:41:35 PM	DUP,1>10mL,
26	N062272-004BMS,MS,10	1/10/2024 1:56:53 PM	MS,1>10mL,
27	N062272-004BMSD,MSD,10	1/10/2024 2:12:11 PM	MSD,1>10mL,
28	N062272-006BMS,MS,10	1/10/2024 2:27:30 PM	MS,1>10mL,
29	N062272-011B,SAMP,10	1/10/2024 2:42:47 PM	SAMP,1>10mL,
30	N062272-013B,SAMP,10	1/10/2024 2:58:05 PM	SAMP,1>10mL,
31	N062272-014B,SAMP,10	1/10/2024 3:13:24 PM	SAMP,1>10mL,
32	N062272-015B,SAMP,10	1/10/2024 3:28:42 PM	SAMP,1>10mL,
33	CCV-3,CCV,1	1/10/2024 3:44:00 PM	CCV, IWST-240105A
34	CCB-3,CCB,1	1/10/2024 3:59:18 PM	CCB
35	N062272-016B,SAMP,10	1/10/2024 4:14:36 PM	SAMP,1>10mL,
36	N062272-017B,SAMP,10	1/10/2024 4:29:55 PM	SAMP,1>10mL,
37	N062272-018B,SAMP,10	1/10/2024 4:45:12 PM	SAMP,1>10mL,
38	N062272-019B,SAMP,10	1/10/2024 6:04:35 PM	SAMP,1>10mL,
39	N062272-020B,SAMP,10	1/10/2024 6:19:53 PM	SAMP,1>10mL,
40	N062272-002B,SAMP,20	1/10/2024 6:35:12 PM	SAMP,0.5>10mL,
41	N062272-002BMS,MS,20	1/10/2024 6:50:30 PM	MS,0.5>10mL,

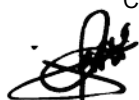
Sequence: IC-08_240110A
Operator: IC-05

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Printed: 1/11/2024 2:00:11 AM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 68

Created: 1/9/2024 12:25:14 PM by IC-05
Last Update: 1/10/2024 5:58:49 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062272-002BMSD,MSD,20	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
43	N062272-003B,SAMP,20	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished
44	N062272-003BDUP,DUP,20	Unknown	33	1000.0	Anions Default	EPA 300_0_240102	Finished
45	CCV-4,CCV,1	Unknown	34	1000.0	Anions Default	EPA 300_0_240102	Finished
46	CCB-4,CCB,1	Unknown	35	1000.0	Anions Default	EPA 300_0_240102	Finished
47	N062272-003BMS,MS,20	Unknown	36	1000.0	Anions Default	EPA 300_0_240102	Finished
48	N062272-001B,SAMP,20	Unknown	37	1000.0	Anions Default	EPA 300_0_240102	Finished
49	N062272-004B,SAMP,50	Unknown	38	1000.0	Anions Default	EPA 300_0_240102	Finished
50	N062272-005B,SAMP,100	Unknown	39	1000.0	Anions Default	EPA 300_0_240102	Finished
51	N062272-006B,SAMP,100	Unknown	40	1000.0	Anions Default	EPA 300_0_240102	Finished
52	N062272-007B,SAMP,20	Unknown	41	1000.0	Anions Default	EPA 300_0_240102	Finished
53	N062272-008B,SAMP,20	Unknown	42	1000.0	Anions Default	EPA 300_0_240102	Finished
54	N062272-009B,SAMP,100	Unknown	43	1000.0	Anions Default	EPA 300_0_240102	Finished
55	N062272-010B,SAMP,100	Unknown	44	1000.0	Anions Default	EPA 300_0_240102	Finished
56	N062272-011B,SAMP,50	Unknown	45	1000.0	Anions Default	EPA 300_0_240102	Finished
57	CCV-5,CCV,1	Unknown	46	1000.0	Anions Default	EPA 300_0_240102	Finished
58	CCB-5,CCB,1	Unknown	47	1000.0	Anions Default	EPA 300_0_240102	Finished
59	N062272-013B,SAMP,50	Unknown	48	1000.0	Anions Default	EPA 300_0_240102	Finished
60	N062272-014B,SAMP,50	Unknown	49	1000.0	Anions Default	EPA 300_0_240102	Finished
61	N062272-015B,SAMP,50	Unknown	50	1000.0	Anions Default	EPA 300_0_240102	Finished
62	N062272-016B,SAMP,200	Unknown	51	1000.0	Anions Default	EPA 300_0_240102	Finished
63	N062272-017B,SAMP,50	Unknown	52	1000.0	Anions Default	EPA 300_0_240102	Finished
64	N062272-018B,SAMP,50	Unknown	53	1000.0	Anions Default	EPA 300_0_240102	Finished
65	N062272-019B,SAMP,50	Unknown	54	1000.0	Anions Default	EPA 300_0_240102	Finished
66	N062272-020B,SAMP,50	Unknown	55	1000.0	Anions Default	EPA 300_0_240102	Finished
67	CCV-6,CCV,1	Unknown	56	1000.0	Anions Default	EPA 300_0_240102	Finished
68	CCB-6,CCB,1	Unknown	57	1000.0	Anions Default	EPA 300_0_240102	Finished



Sequence: IC-08_240110A
Operator: IC-05

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Printed: 1/11/2024 2:00:11 AM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 68

Created: 1/9/2024 12:25:14 PM by IC-05
Last Update: 1/10/2024 5:58:49 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062272-002BMSD,MSD,20	1/10/2024 7:05:48 PM	MSD,0.5>10mL,
43	N062272-003B,SAMP,20	1/10/2024 7:21:06 PM	SAMP,0.5>10mL,
44	N062272-003BDUP,DUP,20	1/10/2024 7:36:24 PM	DUP,0.5>10mL,
45	CCV-4,CCV,1	1/10/2024 7:51:42 PM	CCV, IWST-240105A
46	CCB-4,CCB,1	1/10/2024 8:07:00 PM	CCB
47	N062272-003BMS,MS,20	1/10/2024 8:22:18 PM	MS,0.5>10mL,
48	N062272-001B,SAMP,20	1/10/2024 8:37:37 PM	SAMP,0.5>10mL,
49	N062272-004B,SAMP,50	1/10/2024 8:52:55 PM	SAMP,0.2>10mL,
50	N062272-005B,SAMP,100	1/10/2024 9:08:14 PM	SAMP,0.1>10mL,
51	N062272-006B,SAMP,100	1/10/2024 9:23:32 PM	SAMP,0.1>10mL,
52	N062272-007B,SAMP,20	1/10/2024 9:38:49 PM	SAMP,0.5>10mL,
53	N062272-008B,SAMP,20	1/10/2024 9:54:07 PM	SAMP,0.5>10mL,
54	N062272-009B,SAMP,100	1/10/2024 10:09:25 PM	SAMP,0.1>10mL,
55	N062272-010B,SAMP,100	1/10/2024 10:24:43 PM	SAMP,0.1>10mL,
56	N062272-011B,SAMP,50	1/10/2024 10:40:01 PM	SAMP,0.2>10mL,
57	CCV-5,CCV,1	1/10/2024 10:55:20 PM	CCV, IWST-240105A
58	CCB-5,CCB,1	1/10/2024 11:10:38 PM	CCB
59	N062272-013B,SAMP,50	1/10/2024 11:25:56 PM	SAMP,0.2>10mL,
60	N062272-014B,SAMP,50	1/10/2024 11:41:13 PM	SAMP,0.2>10mL,
61	N062272-015B,SAMP,50	1/10/2024 11:56:31 PM	SAMP,0.2>10mL,
62	N062272-016B,SAMP,200	1/11/2024 12:11:49 AM	SAMP,0.05>10mL,
63	N062272-017B,SAMP,50	1/11/2024 12:27:07 AM	SAMP,0.2>10mL,
64	N062272-018B,SAMP,50	1/11/2024 12:42:25 AM	SAMP,0.2>10mL,
65	N062272-019B,SAMP,50	1/11/2024 12:57:44 AM	SAMP,0.2>10mL,
66	N062272-020B,SAMP,50	1/11/2024 1:13:02 AM	SAMP,0.2>10mL,
67	CCV-6,CCV,1	1/11/2024 1:28:20 AM	CCV, IWST-240105A
68	CCB-6,CCB,1	1/11/2024 1:43:38 AM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0136	0.0830	0.1675	0.4225	0.8784	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0337	0.2030	0.4063	1.0376	2.1764	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ICV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5614115						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.975	0.50	4.000	0	99.4	90	110				
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Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.019	0.50	4.000	0	100	90	110				
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Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.022	0.50	4.000	0	101	90	110				
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Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614123						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.005	0.50	4.000	0	100	90	110				
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Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.029	0.50	4.000	0	101	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614142							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.055	0.50	4.000	0	101	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5614152							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.035	0.50	4.000	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ICV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5614076						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.258 0.050 1.250 0 101 90 110

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614076						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.220 0.050 1.250 0 97.6 90 110

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.238 0.050 1.250 0 99.0 90 110

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.235 0.050 1.250 0 98.8 90 110

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.243 0.050 1.250 0 99.4 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614111							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.244	0.050	1.250	0	99.5	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCV	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5614113							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.247	0.050	1.250	0	99.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ICB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5614116							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614122							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614124							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024	SeqNo: 5614131							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614143						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5614153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: ICB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5614077						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 0.027 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180258						
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0		Analysis Date: 1/10/2024	SeqNo: 5614110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Detection of NO3 in CCB2 was >1/2PQL. However, affected samples were ND and >5x the CCB detection.

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:				RunNo: 180258				
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/10/2024				SeqNo: 5614112				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Sample ID: CCB-6	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:				RunNo: 180258				
Client ID: CCB	Batch ID: R180258	TestNo: EPA 300.0	Analysis Date: 1/11/2024				SeqNo: 5614114				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.880	
CCV-1	Nitrate 6.857	
CCV-2	Nitrate 6.924	
CCV-3	Nitrate 6.853	
CCV-4	Nitrate 6.967	
CCV-5	Nitrate 6.937	
CCV-6	Nitrate 6.977	

Average 6.919

Applied RT Window 6.719 - 7.119

MB-R180258_NO3	Nitrate	N.A.	N.A.
LCS-R180258_NO3	Nitrate	6.867	PASS
N062272-001B	Nitrate	N.A.	N.A.
N062272-002B	Nitrate	6.890	PASS
N062272-003B	Nitrate	N.A.	N.A.
N062272-004B	Nitrate	6.867	PASS
N062272-005B	Nitrate	6.920	PASS
N062272-006B	Nitrate	6.930	PASS
N062272-007B	Nitrate	N.A.	N.A.
N062272-008B	Nitrate	N.A.	N.A.
N062272-009B	Nitrate	6.870	PASS
N062272-010B	Nitrate	6.924	PASS
N062272-004BDUP	Nitrate	6.977	PASS
N062272-004BMS	Nitrate	6.934	PASS
N062272-004BMSD	Nitrate	6.947	PASS
N062272-006BMS	Nitrate	6.910	PASS
N062272-011B	Nitrate	6.887	PASS
N062272-013B	Nitrate	N.A.	N.A.
N062272-014B	Nitrate	N.A.	N.A.
N062272-015B	Nitrate	6.887	PASS
N062272-016B	Nitrate	6.884	PASS
N062272-017B	Nitrate	N.A.	N.A.
N062272-018B	Nitrate	N.A.	N.A.

Reviewed by:

d/Rocha 1/28/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.880	
CCV-1	Nitrate 6.857	
CCV-2	Nitrate 6.924	
CCV-3	Nitrate 6.853	
CCV-4	Nitrate 6.967	
CCV-5	Nitrate 6.937	
CCV-6	Nitrate 6.977	

Average 6.919

Applied RT Window 6.719 - 7.119

N062272-019B	Nitrate	N.A.	N.A.
N062272-020B	Nitrate	6.974	PASS

Reviewed by:

dRocha 1/28/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.610	
CCV-1	Sulfate 10.494	
CCV-2	Sulfate 10.560	
CCV-3	Sulfate 10.463	
CCV-4	Sulfate 10.607	
CCV-5	Sulfate 10.587	
CCV-6	Sulfate 10.617	

Average 10.555

Applied RT Window 10.355 - 10.755

MB-R180258_SO4	Sulfate	10.647	PASS
LCS-R180258_SO4	Sulfate	10.534	PASS
N062272-002B	Sulfate	10.590	PASS
N062272-002BMS	Sulfate	10.580	PASS
N062272-002BMSD	Sulfate	10.564	PASS
N062272-003B	Sulfate	10.493	PASS
N062272-003BDUP	Sulfate	10.567	PASS
N062272-003BMS	Sulfate	10.630	PASS
N062272-001B	Sulfate	10.613	PASS
N062272-004B	Sulfate	10.590	PASS
N062272-005B	Sulfate	10.567	PASS
N062272-006B	Sulfate	10.610	PASS
N062272-007B	Sulfate	10.590	PASS
N062272-008B	Sulfate	10.640	PASS
N062272-009B	Sulfate	10.644	PASS
N062272-010B	Sulfate	10.604	PASS
N062272-011B	Sulfate	10.624	PASS
N062272-013B	Sulfate	10.630	PASS
N062272-014B	Sulfate	10.637	PASS
N062272-015B	Sulfate	10.570	PASS
N062272-016B	Sulfate	10.654	PASS
N062272-017B	Sulfate	10.593	PASS
N062272-018B	Sulfate	10.610	PASS

Reviewed by:

d/Recha 1/28/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.610	
CCV-1	Sulfate 10.494	
CCV-2	Sulfate 10.560	
CCV-3	Sulfate 10.463	
CCV-4	Sulfate 10.607	
CCV-5	Sulfate 10.587	
CCV-6	Sulfate 10.617	

Average 10.555

Applied RT Window 10.355 - 10.755

N062272-019B	Sulfate	10.634	PASS
N062272-020B	Sulfate	10.617	PASS

Reviewed by:

M. Rocha 1/28/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105958
 ASSET #: N062272

Instrument ID: ICP-03
 Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 01242024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062272-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.36674 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 366.74$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 370$$

Reviewed by:

d/Rocha 1/29/2024

% RSD SUMMARY



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RSD SUMMARY: 240111A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	2.97	15	PASS
Standard1	ICAL	1	Fe	0.02	2.59	15	PASS
Standard2	ICAL	1	Fe	0.05	0.84	15	PASS
Standard3	ICAL	1	Fe	2	0.48	15	PASS
Standard4	ICAL	1	Fe	5	0.06	15	PASS
Standard5	ICAL	1	Fe	7.5	0.11	15	PASS
Standard6	ICAL	1	Fe	10	0.12	15	PASS
Standard7	ICAL	1	Fe	20	0.07	15	PASS
ICV	ICV	1	Fe	10.05	0.06	15	PASS
ICB	ICB	1	Fe	0	161.56	15	<PQL
LLICV1	CCV1	1	Fe	0.02	0.72	20	PASS
ICSA1	ICSA	1	Fe	178.28	0.03	15	PASS
ICSAB1	ICSAB	1	Fe	167.75	0.03	15	PASS
RINSE	RINSE	1	Fe	0.02	4.42	15	PASS
MB-105958	MBLK	1	Fe	0	24.02	15	<PQL
LCS-105958	LCS	1	Fe	0.11	0.58	15	PASS
N062272-001C	SAMP	1	Fe	0.37	0.36	15	PASS
N062272-002C	SAMP	1	Fe	0.03	2.01	15	PASS
N062272-003C	SAMP	1	Fe	0.02	2.97	15	PASS
N062272-004C	SAMP	1	Fe	0.01	4.23	15	PASS
N062272-004C	SAMP	5	Fe	0	24.46	15	<PQL
N062272-004C-PS	PS	1	Fe	0.1	1.47	15	PASS
N062272-004C-MS	MS	1	Fe	0.1	1.9	15	PASS
CCV1	CCV	1	Fe	9.97	0.01	15	PASS
CCB1	CCB	1	Fe	0	59.45	15	<PQL
N062272-004C-MSD	MSD	1	Fe	0.1	0.19	15	PASS
N062272-005C	SAMP	1	Fe	0.01	20.07	15	<PQL
N062272-006C	SAMP	1	Fe	0.02	5.29	15	PASS
N062272-007C	SAMP	1	Fe	0.09	1.27	15	PASS
N062272-008C	SAMP	1	Fe	0.1	1.58	15	PASS
N062272-009C	SAMP	1	Fe	0.02	4.5	15	PASS
N062272-010C	SAMP	1	Fe	0.02	3.17	15	PASS
N062272-011C	SAMP	1	Fe	0.03	2.31	15	PASS
N062272-013C	SAMP	1	Fe	0.02	5.89	15	PASS
N062272-014C	SAMP	1	Fe	0.02	7.91	15	PASS
CCV2	CCV	1	Fe	11.48	0.13	15	PASS
CCV2	CCV	1	Fe	10.82	0.05	15	PASS
CCB2	CCB	1	Fe	0	14.43	15	PASS
ICSA2	ICSA	1	Fe	208.42	0.2	15	PASS
ICSAB2	ICSAB	1	Fe	198.03	0.24	15	PASS
N062272-015C	SAMP	1	Fe	0.02	4.57	15	PASS
N062272-016C	SAMP	1	Fe	3.97	1.19	15	PASS

RSD SUMMARY: 240111A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N062272-017C	SAMP	1	Fe	0.07	2.18	15	PASS
N062272-018C	SAMP	1	Fe	0.03	3.04	15	PASS
N062272-019C	SAMP	1	Fe	0.24	1.28	15	PASS
N062272-020C	SAMP	1	Fe	0.02	4.93	15	PASS
CCV3	CCV	1	Fe	11.55	0	15	PASS
CCV3	CCV	1	Fe	10.41	0.54	15	PASS
CCB3	CCB	1	Fe	0.01	0.81	15	PASS
ICSA3	ICSA	1	Fe	209.72	0.28	15	PASS
ICSAB3	ICSAB	1	Fe	202.08	0.07	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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INJECTION LOG: 240111A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/11/2024	12:06:36 PM
2	Standard1	ICAL	1	01/11/2024	12:10:50 PM
3	Standard2	ICAL	1	01/11/2024	12:15:03 PM
4	Standard3	ICAL	1	01/11/2024	12:18:44 PM
5	Standard4	ICAL	1	01/11/2024	12:22:30 PM
6	Standard5	ICAL	1	01/11/2024	12:27:16 PM
7	Standard6	ICAL	1	01/11/2024	12:31:29 PM
8	Standard7	ICAL	1	01/11/2024	12:35:43 PM
310	ICV	ICV	1	01/11/2024	12:49:11 PM
1	ICB	ICB	1	01/11/2024	12:53:32 PM
2	LLICV1	CCV1	1	01/11/2024	12:57:45 PM
9	ICSA1	ICSA	1	01/11/2024	01:02:44 PM
10	ICSAB1	ICSAB	1	01/11/2024	01:07:47 PM
299	RINSE	RINSE	1	01/11/2024	01:19:07 PM
71	MB-105958	MBLK	1	01/11/2024	01:23:26 PM
72	LCS-105958	LCS	1	01/11/2024	01:33:18 PM
73	N062272-001C	SAMP	1	01/11/2024	01:38:03 PM
74	N062272-002C	SAMP	1	01/11/2024	01:42:19 PM
75	N062272-003C	SAMP	1	01/11/2024	01:46:37 PM
76	N062272-004C	SAMP	1	01/11/2024	01:50:55 PM
77	N062272-004C	SAMP	5	01/11/2024	01:56:16 PM
78	N062272-004C-PS	PS	1	01/11/2024	02:00:32 PM
79	N062272-004C-MS	MS	1	01/11/2024	02:06:01 PM
7	CCV1	CCV	1	01/11/2024	02:11:31 PM
1	CCB1	CCB	1	01/11/2024	02:15:47 PM
80	N062272-004C-MSD	MSD	1	01/11/2024	02:20:01 PM
81	N062272-005C	SAMP	1	01/11/2024	02:25:30 PM
82	N062272-006C	SAMP	1	01/11/2024	02:30:59 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
83	N062272-007C	SAMP	1	01/11/2024	02:36:29 PM
84	N062272-008C	SAMP	1	01/11/2024	02:42:20 PM
85	N062272-009C	SAMP	1	01/11/2024	02:48:12 PM
86	N062272-010C	SAMP	1	01/11/2024	02:53:33 PM
87	N062272-011C	SAMP	1	01/11/2024	02:59:04 PM
88	N062272-013C	SAMP	1	01/11/2024	03:04:51 PM
89	N062272-014C	SAMP	1	01/11/2024	03:10:23 PM
7	CCV2	CCV	1	01/11/2024	03:16:10 PM
7	CCV2	CCV	1	01/11/2024	03:29:32 PM
1	CCB2	CCB	1	01/11/2024	03:33:51 PM
9	ICSA2	ICSA	1	01/11/2024	03:39:24 PM
10	ICSAB2	ICSAB	1	01/11/2024	03:44:41 PM
90	N062272-015C	SAMP	1	01/11/2024	03:55:14 PM
91	N062272-016C	SAMP	1	01/11/2024	04:00:42 PM
92	N062272-017C	SAMP	1	01/11/2024	04:06:14 PM
93	N062272-018C	SAMP	1	01/11/2024	04:11:46 PM
94	N062272-019C	SAMP	1	01/11/2024	04:17:18 PM
95	N062272-020C	SAMP	1	01/11/2024	04:23:06 PM
96	MB-105959	MBLK	1	01/11/2024	04:28:37 PM
7	CCV3	CCV	1	01/11/2024	04:35:27 PM
7	CCV3	CCV	1	01/11/2024	04:44:51 PM
1	CCB3	CCB	1	01/11/2024	04:49:07 PM
9	ICSA3	ICSA	1	01/11/2024	04:57:19 PM
10	ICSAB3	ICSAB	1	01/11/2024	05:02:39 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/10/2024 3:00:00 PM

Reviewed/ Date: M Rocha 1/29/2024

Page: 1 of 2

Prep End Date: 1/10/2024 7:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 105958 Prep Code:3010_W DISS

Technician: Diane Jetajobe

mL / mL

95 DB-04-35

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105958	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105958	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062272-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/10/2024 3:00:00 PM

Reviewed/ Date: d/Recha 1/29/2024

Page:2 of 2

Prep End Date: 1/10/2024 7:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 105958 Prep Code:3010_W_DISS

Technician: Diane Jetajobe

mL / mL

95 DB-04-35

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062272-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-019C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-020C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240111A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/11/2024	12:06:36 PM	Fe	273.952	124	0.00	mg/L	
Standard1	01/11/2024	12:10:50 PM	Fe	273.952	282	0.02	mg/L	
Standard2	01/11/2024	12:15:03 PM	Fe	273.952	804	0.05	mg/L	
Standard3	01/11/2024	12:18:44 PM	Fe	273.952	27753	2.0	mg/L	
Standard4	01/11/2024	12:22:30 PM	Fe	273.952	69191	5.0	mg/L	
Standard5	01/11/2024	12:27:16 PM	Fe	273.952	103996	7.5	mg/L	
Standard6	01/11/2024	12:31:29 PM	Fe	273.952	138664	10.0	mg/L	
Standard7	01/11/2024	12:35:43 PM	Fe	273.952	273250	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICV	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616791						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10049.476	20	10000	0	100	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ZZZZZZ	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616793						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	21.287	20	20.00	0	106	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCV	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9969.524	20	10000	0	99.7	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCV	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10823.106	20	10000	0	108	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCV	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10412.084	20	10000	0	104	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616792						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.492 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.705 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616819						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.736 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: CCB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 7.222 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSA	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616794						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	506393.760	50	500000	0	101	80	120				
Calcium	437534.295	500	500000	0	87.5	80	120				
Iron	178281.783	20	200000	0	89.1	80	120				
Magnesium	433734.278	100	500000	0	86.7	80	120				

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSA B	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616795						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	526970.066	50	500000	0	105	80	120				
Calcium	437210.399	500	500000	0	87.4	80	120				
Iron	167753.717	20	200000	0	83.9	80	120				
Magnesium	429143.777	100	500000	0	85.8	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSA	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616820						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	457261.620	50	500000	0	91.5	80	120				
Calcium	540798.599	500	500000	0	108	80	120				
Iron	208418.606	20	200000	0	104	80	120				
Magnesium	496844.692	100	500000	0	99.4	80	120				

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSA B	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616821						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	470198.836	50	500000	0	94.0	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSAB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616821						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	537857.578	500	500000	0	108	80	120				
Iron	198027.963	20	200000	0	99.0	80	120				
Magnesium	496322.526	100	500000	0	99.3	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSA	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	417204.391	50	500000	0	83.4	80	120				
Calcium	563176.835	500	500000	0	113	80	120				
Iron	209724.758	20	200000	0	105	80	120				
Magnesium	505596.225	100	500000	0	101	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ICSAB	Batch ID: R180292	TestNo: EPA 6010B		Analysis Date: 1/11/2024	SeqNo: 5616833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	441167.780	50	500000	0	88.2	80	120				
Calcium	566324.515	500	500000	0	113	80	120				
Iron	202078.346	20	200000	0	101	80	120				
Magnesium	512355.147	100	500000	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 240111A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	101.26	65-125	PASS
Standard2	ICAL	1	0.99	99.34	65-125	PASS
Standard3	ICAL	1	1.01	101.03	65-125	PASS
Standard4	ICAL	1	1	99.93	65-125	PASS
Standard5	ICAL	1	1	100.38	65-125	PASS
Standard6	ICAL	1	0.99	98.72	65-125	PASS
Standard7	ICAL	1	0.99	99.24	65-125	PASS
ICV	ICV	1	0.97	97.33	65-125	PASS
ICB	ICB	1	1	99.91	65-125	PASS
LLICV1	CCV1	1	1.02	101.96	65-125	PASS
ICSA1	ICSA	1	0.86	85.95	65-125	PASS
ICSAB1	ICSAB	1	0.87	87.13	65-125	PASS
RINSE	RINSE	1	1.04	104.45	65-125	PASS
MB-105958	MBLK	1	0.95	94.88	65-125	PASS
LCS-105958	LCS	1	0.95	94.63	65-125	PASS
N062272-001C	SAMP	1	0.87	86.6	65-125	PASS
N062272-002C	SAMP	1	0.79	78.79	65-125	PASS
N062272-003C	SAMP	1	0.96	95.87	65-125	PASS
N062272-004C	SAMP	1	0.8	80.15	65-125	PASS
N062272-004C	SAMP	5	0.91	90.77	65-125	PASS
N062272-004C-PS	PS	1	0.84	84.02	65-125	PASS
N062272-004C-MS	MS	1	0.82	82.07	65-125	PASS
CCV1	CCV	1	0.97	96.76	65-125	PASS
CCB1	CCB	1	1.05	104.63	65-125	PASS
N062272-004C-MSD	MSD	1	0.83	83.5	65-125	PASS
N062272-005C	SAMP	1	0.79	79.33	65-125	PASS
N062272-006C	SAMP	1	0.79	79.11	65-125	PASS
N062272-007C	SAMP	1	1.05	104.65	65-125	PASS
N062272-008C	SAMP	1	1.12	111.94	65-125	PASS
N062272-009C	SAMP	1	0.91	90.84	65-125	PASS
N062272-010C	SAMP	1	1.03	103.01	65-125	PASS
N062272-011C	SAMP	1	1.09	109.26	65-125	PASS
N062272-013C	SAMP	1	1.11	111.34	65-125	PASS
N062272-014C	SAMP	1	1.08	107.84	65-125	PASS
CCV2	CCV	1	1.22	121.76	65-125	PASS
CCV2	CCV	1	1.18	118.4	65-125	PASS
CCB2	CCB	1	1.19	119.36	65-125	PASS
ICSA2	ICSA	1	1.13	113.35	65-125	PASS
ICSAB2	ICSAB	1	1.18	118.12	65-125	PASS
N062272-015C	SAMP	1	1.01	100.75	65-125	PASS

INTERNAL STANDARD: 240111A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N062272-016C	SAMP	1	1.03	103.5	65-125	PASS
N062272-017C	SAMP	1	1.17	116.77	65-125	PASS
N062272-018C	SAMP	1	1.19	119.18	65-125	PASS
N062272-019C	SAMP	1	1.18	117.87	65-125	PASS
N062272-020C	SAMP	1	1.15	114.5	65-125	PASS
CCV3	CCV	1	1.28	128.22	65-125	NR!
CCV3	CCV	1	1.06	106.21	65-125	PASS
CCB3	CCB	1	1.04	103.64	65-125	PASS
ICSA3	ICSA	1	1.15	115.33	65-125	PASS
ICSAB3	ICSAB	1	1.18	118.41	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-Metals in Water

Work Order No.: N062272
Test Method: EPA 6010B
Analysis Date: 1/11/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105958

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062272-004C DT 5x	Iron	Fe	µg/L	0	NA	0		10

Reviewed by:

M. Rocha 1/31/2024

Note: NA - Not Applicable

01/26/24 20:03

DT_EPA 6010B_N062272_105958

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: N062272-004C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180292						
Client ID: ZZZZZZ	Batch ID: 105958	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616803							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	101.324	20	100.0	0	101	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B	Matrix: WATER
Digestion Method: EPA 3010A	Units : ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23	
Analysis Date: 5/7-23/23	
Instrument Name: ICP-03	
Analyst/Technician: Nancy Sibucuo / Diane Jetajobe	

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105955
 ASSET #: N062272

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/10/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% RSD of As in LLICV failed. However, % rec passed criteria
 % RSD of As in N062272-015C/ 018C failed. For re run
 % Rec of As in CCV12 failed, low bias. Affected samples are for re run.
 Ba is OLR in N062272-019C. For dilution
 Mn is OLR in N062272-002C/007C/008C/019C. For dilution

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 1/19/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105955
 ASSET #: N062272

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Mn in N062278-002D-MSD failed, high bias. However, LCS passed criteria
 % RSD of As in LLICV failed. However, % rec passed criteria
 Mn dilution
 As re run for N062272-015C/018C.
 Ba dilution for N062272-019C.
 % RSD of As in N062272-018C failed. For re run

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 1/19/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105955
ASSET #: N062272

Instrument ID: ICPMS-03
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/15/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run for N062272-018C

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 1/25/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105955
ASSET #: N062272

Instrument ID: ICPMS-03
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/29/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X	X		X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run CAR#7376

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer LG 2/6/2024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Arsenic concentration, in ug/L in the original sample as follows:

$$\text{Arsenic, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062272-001C**, the concentration in ug/L is calculated as follows:


$$\text{Arsenic, ug/L} = 15.0784 * 1 * (25 / 25)$$

$$\text{Arsenic, ug/L} = 15.0784$$

Reporting results in two significant figures,

$$\text{Arsenic, ug/L} = 15$$

Reviewed by:

 2/14/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	30.913	15	<PQL	0	1201.148	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	15.324	15	<PQL	0.36	15.327	15	<PQL
Std3-5/50 ppb	ICAL	1	4.86	2.127	15	PASS	4.61	2.255	15	PASS
Std4-10/100 ppb	ICAL	1	9.53	2.739	15	PASS	9.61	2.254	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.36	0.495	15	PASS	19.4	1.057	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.48	1.12	15	PASS	39.4	0.839	15	PASS
Std7-100/1000 ppb	ICAL	1	98.93	0.752	15	PASS	97.91	2	15	PASS
Std8-200/2000 ppb	ICAL	1	200.73	0.914	15	PASS	201.25	1.413	15	PASS
ICV	ICV	1	10.04	3.129	15	PASS	99.89	1.717	15	PASS
ICV	ICV	1	9.98	2.366	15	PASS	98.86	0.976	15	PASS
ICB	ICB	1	0.01	176.712	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.11	1.98	20	PASS	0.43	7.273	20	PASS
MLCCV	CCV	1	19.36	2.929	15	PASS	19.25	2.274	15	PASS
ICSA1	ICSA	1	0.01	98.082	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.19	1.514	15	PASS	20.36	0.544	15	PASS
LLICV1	LLICV	1	1.12	0.415	20	PASS	0.46	3.405	20	PASS
CCV1	CCV	1	19.39	0.963	15	PASS	19.27	1.021	15	PASS
CCB1	CCB	1	0	39.94	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.8	2.028	15	PASS	18.63	1.17	15	PASS
CCB2	CCB	1	0.01	3.735	15	PASS	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	111.216	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.88	1.425	15	PASS	19.92	1.094	15	PASS
CCV3	CCV	1	20.37	0.608	15	PASS	18.84	0.656	15	PASS
CCB3	CCB	1	0	197.414	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.16	0.839	15	PASS	18.93	1.189	15	PASS
CCB4	CCB	1	0	319.16	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.31	2.639	15	PASS	19.13	2.858	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.24	0.979	15	PASS	18.92	1.324	15	PASS
CCB6	CCB	1	0	151.282	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.77	1.295	15	PASS	19.25	1.146	15	PASS
CCV7	CCV	1	20.89	0.815	15	PASS	18.58	0.781	15	PASS
CCB7	CCB	1	0.01	33.194	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	20.27	1.379	15	PASS	18.39	1.813	15	PASS
CCB8	CCB	1	0.01	52.548	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.96	0.822	15	PASS	18.63	0.919	15	PASS
CCB9	CCB	1	0	150.523	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0	192.077	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.95	1.963	15	PASS	19.61	1.613	15	PASS

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	20	0.854	15	PASS	18.82	0.775	15	PASS
CCB10	CCB	1	0.01	24.081	15	<PQL	0	472.574	15	<PQL
CCV11	CCV	1	19.83	0.772	15	PASS	18.84	2.484	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV12	CCV	1	20.49	1.627	15	PASS	18.91	2.191	15	PASS
CCB12	CCB	1	0	443.112	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0	76.966	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	21.24	0.554	15	PASS	19.77	0.772	15	PASS
MB-105955	MBLK	1	0	125.646	15	<PQL	<0.000	N/A	15	<PQL
LCS-105955	LCS	1	10.43	2.405	15	PASS	97.35	1.292	15	PASS
N062272-001C	SAMP	1	115.5	2.53	15	PASS	140.56	0.294	15	PASS
N062272-002C	SAMP	1	48.33	1.127	15	PASS	215.99	1.642	15	PASS
N062272-003C	SAMP	1	26.4	0.827	15	PASS	137.28	1.91	15	PASS
N062272-004C	SAMP	1	46.45	0.336	15	PASS	18.11	1.513	15	PASS
N062272-004C	SAMP	5	9.16	1.657	15	PASS	3.46	4.889	15	PASS
N062272-004C-PS	PS	1	56.77	0.631	15	PASS	106.05	1.845	15	PASS
N062272-004C-MS	MS	1	53.75	0.492	15	PASS	105.97	0.96	15	PASS
CCV13	CCV	1	20.1	1.807	15	PASS	18.79	2.06	15	PASS
CCB13	CCB	1	0	354.362	15	<PQL	<0.000	N/A	15	<PQL
N062272-004C-MSD	MSD	1	54.03	1.537	15	PASS	105.94	1.071	15	PASS
N062272-005C	SAMP	1	35.71	1.42	15	PASS	4.79	3.495	15	PASS
N062272-006C	SAMP	1	34.86	0.214	15	PASS	10.48	0.858	15	PASS
N062272-007C	SAMP	1	22.06	0.742	15	PASS	329.25	1.658	15	PASS
N062272-008C	SAMP	1	23.43	0.893	15	PASS	344.97	1.385	15	PASS
N062272-009C	SAMP	1	22.95	4.27	15	PASS	21.85	1.949	15	PASS
N062272-010C	SAMP	1	23.13	1.322	15	PASS	20.1	1.986	15	PASS
N062272-011C	SAMP	1	39.7	0.553	15	PASS	6.96	2.594	15	PASS
N062272-013C	SAMP	1	14.48	1.892	15	PASS	39.79	1.256	15	PASS
CCV14	CCV	1	20.22	0.291	15	PASS	18.45	0.783	15	PASS
CCB14	CCB	1	0.01	82.982	15	<PQL	<0.000	N/A	15	<PQL
N062272-014C	SAMP	1	154.82	0.524	15	PASS	<0.000	N/A	15	<PQL
N062272-015C	SAMP	1	37.46	1.317	15	PASS	22.6	1.107	15	PASS
N062272-016C	SAMP	1	65.51	1.699	15	PASS	156.89	0.646	15	PASS
N062272-017C	SAMP	1	28.03	0.873	15	PASS	41.82	0.931	15	PASS
N062272-018C	SAMP	1	42.7	1.747	15	PASS	28.18	1.813	15	PASS
N062272-019C	SAMP	1	384.44	1.344	15	PASS	1567.35	0.741	15	PASS
N062272-020C	SAMP	1	40.88	1.105	15	PASS	24.41	2.019	15	PASS
CCV15	CCV	1	20.25	1.338	15	PASS	18.68	1.779	15	PASS
CCB15	CCB	1	0.01	88.455	15	<PQL	<0.000	N/A	15	<PQL
CCV16	CCV	1	20.28	1.175	15	PASS	18.9	1.376	15	PASS
CCB16	CCB	1	0.01	116.258	15	<PQL	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSA6	ICSA	1	0	260.827	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.22	0.9	15	PASS	19.33	0.675	15	PASS

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	49.082	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.41	26.649	15	FAIL
Std3-5/50 ppb	ICAL	1	4.77	6.003	15	PASS
Std4-10/100 ppb	ICAL	1	9.67	1.358	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.49	0.99	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.97	0.408	15	PASS
Std7-100/1000 ppb	ICAL	1	98.75	1.21	15	PASS
Std8-200/2000 ppb	ICAL	1	200.7	1.556	15	PASS
ICV	ICV	1	9.9	3.283	15	PASS
ICV	ICV	1	9.7	0.868	15	PASS
ICB	ICB	1	0.03	152.458	15	<PQL
LLICV1	LLICV	1	0.11	26.239	20	NR!
MLCCV	CCV	1	19.33	0.592	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.12	1.267	15	PASS
LLICV1	LLICV	1	0.1	29.636	20	NR!
CCV1	CCV	1	19.6	0.674	15	PASS
CCB1	CCB	1	0.02	171.696	15	<PQL
CCV2	CCV	1	18.84	3.312	15	PASS
CCB2	CCB	1	0.01	74.7	15	<PQL
ICSA2	ICSA	1	0.01	278.916	15	<PQL
ICSAB2	ICSAB	1	19.47	0.896	15	PASS
CCV3	CCV	1	19.01	2.9	15	PASS
CCB3	CCB	1	0	285.88	15	<PQL
CCV4	CCV	1	19	1.742	15	PASS
CCB4	CCB	1	0.01	105.317	15	<PQL
CCV5	CCV	1	18.58	2.734	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	18.33	0.977	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	18.93	1.672	15	PASS
CCV7	CCV	1	18.56	4.043	15	PASS
CCB7	CCB	1	0.01	81.316	15	<PQL
CCV8	CCV	1	19	2.652	15	PASS
CCB8	CCB	1	0	526.514	15	<PQL
CCV9	CCV	1	19.28	1.132	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.02	70.307	15	<PQL
ICSAB4	ICSAB	1	19.74	1.504	15	PASS

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	18.32	4.401	15	PASS
CCB10	CCB	1	0.02	129.128	15	<PQL
CCV11	CCV	1	18.57	3.559	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
CCV12	CCV	1	17.93	3.069	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.52	1.24	15	PASS
MB-105955	MBLK	1	0.02	82.27	15	<PQL
LCS-105955	LCS	1	9.59	0.572	15	PASS
N062272-001C	SAMP	1	15	4.527	15	PASS
N062272-002C	SAMP	1	1.68	4.95	15	PASS
N062272-003C	SAMP	1	1.91	10.491	15	PASS
N062272-004C	SAMP	1	0.75	10.823	15	PASS
N062272-004C	SAMP	5	0.09	87.676	15	<PQL
N062272-004C-PS	PS	1	10.33	2.698	15	PASS
N062272-004C-MS	MS	1	9.91	0.955	15	PASS
CCV13	CCV	1	18.38	1.914	15	PASS
CCB13	CCB	1	0	779.339	15	<PQL
N062272-004C-MSD	MSD	1	10.27	1.168	15	PASS
N062272-005C	SAMP	1	<0.000	N/A	15	<PQL
N062272-006C	SAMP	1	<0.000	N/A	15	<PQL
N062272-007C	SAMP	1	3.38	7.436	15	PASS
N062272-008C	SAMP	1	3.66	12.077	15	PASS
N062272-009C	SAMP	1	<0.000	N/A	15	<PQL
N062272-010C	SAMP	1	<0.000	N/A	15	<PQL
N062272-011C	SAMP	1	<0.000	N/A	15	<PQL
N062272-013C	SAMP	1	3.54	7.553	15	PASS
CCV14	CCV	1	18.59	1.767	15	PASS
CCB14	CCB	1	0	1221.997	15	<PQL
N062272-014C	SAMP	1	<0.000	N/A	15	<PQL
N062272-015C	SAMP	1	1.3	25.738	15	NR!
N062272-016C	SAMP	1	4.92	6.03	15	PASS
N062272-017C	SAMP	1	<0.000	N/A	15	<PQL
N062272-018C	SAMP	1	0.51	28.761	15	NR!
N062272-019C	SAMP	1	<0.000	N/A	15	<PQL
N062272-020C	SAMP	1	<0.000	N/A	15	<PQL
CCV15	CCV	1	18.3	1.347	15	PASS
CCB15	CCB	1	0.02	66.819	15	<PQL
CCV16	CCV	1	18.66	2.15	15	PASS
CCB16	CCB	1	0.02	26.278	15	<PQL

PERCENT RSD SUMMARY: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSA6	ICSA	1	0.01	78.198	15	<PQL
ICSAB6	ICSAB	1	19.72	0.945	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	10.186	15	PASS	0.05	19.848	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	5.791	15	PASS	0.43	1.314	15	PASS
Std3-5/50 ppb	ICAL	1	4.84	4.231	15	PASS	4.83	2.045	15	PASS
Std4-10/100 ppb	ICAL	1	9.63	1.96	15	PASS	9.52	2.631	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.62	0.858	15	PASS	19.19	0.465	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.44	1.245	15	PASS	39.18	2.124	15	PASS
Std7-100/1000 ppb	ICAL	1	100.18	0.161	15	PASS	98.91	1.255	15	PASS
Std8-200/2000 ppb	ICAL	1	200.09	0.997	15	PASS	200.82	0.572	15	PASS
ICV	ICV	1	9.87	0.355	15	PASS	100.04	0.851	15	PASS
ICV	ICV	1	10.06	2.256	15	PASS	100.73	0.592	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	193.16	15	<PQL
LLICV1	LLICV	1	1.03	4.341	20	PASS	0.51	6.643	20	PASS
LLICV1	LLICV	1	0.98	5.961	20	PASS	0.44	5.874	20	PASS
MLCCV	CCV	1	19.22	1.995	15	PASS	19.41	0.712	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.24	0.616	15	PASS	20.29	1.692	15	PASS
CCV1	CCV	1	19.43	1.287	15	PASS	19.49	1.715	15	PASS
CCB1	CCB	1	0.01	71.641	15	<PQL	0.02	58.326	15	<PQL
CCV2	CCV	1	19.11	1.305	15	PASS	19.26	1.587	15	PASS
CCB2	CCB	1	0	231.969	15	<PQL	0.01	51.24	15	<PQL
CCV3	CCV	1	19.18	1.57	15	PASS	19.33	1.621	15	PASS
CCB3	CCB	1	0.01	71.749	15	<PQL	0.01	173.659	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.99	0.983	15	PASS	20.05	1.448	15	PASS
CCV4	CCV	1	19.3	1.193	15	PASS	19.35	1.737	15	PASS
CCB4	CCB	1	0	277.212	15	<PQL	0.02	110.112	15	<PQL
CCV5	CCV	1	19.14	0.777	15	PASS	19.46	1.08	15	PASS
CCB5	CCB	1	0.01	68.324	15	<PQL	0.02	100.663	15	<PQL
N062272-002C	SAMP	10	4.54	6.126	15	PASS	23.28	0.707	15	PASS
N062272-007C	SAMP	10	2.14	3.288	15	PASS	35.89	0.591	15	PASS
N062272-008C	SAMP	10	2.22	7.536	15	PASS	38.77	1.879	15	PASS
N062272-015C	SAMP	1	35.08	2.37	15	PASS	23.86	2.804	15	PASS
N062272-018C	SAMP	1	40.59	0.732	15	PASS	28.71	0.544	15	PASS
N062272-019C	SAMP	10	36.97	0.938	15	PASS	170.21	0.61	15	PASS
N062272-015C	SAMP	1	36.21	0.535	15	PASS	23.95	0.972	15	PASS
N062272-018C	SAMP	1	41.34	1.263	15	PASS	28.65	0.84	15	PASS
CCV6	CCV	1	19.52	2.486	15	PASS	19.85	1.465	15	PASS
CCB6	CCB	1	0	130.917	15	<PQL	0.01	309.925	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.25	1.222	15	PASS	20.51	0.783	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	19.6	0.798	15	PASS	19.55	2.291	15	PASS
CCB7	CCB	1	0	207.042	15	<PQL	0	183.895	15	<PQL
CCV8	CCV	1	19.7	0.45	15	PASS	19.7	1.274	15	PASS
CCB8	CCB	1	0	117.078	15	<PQL	0.01	104.88	15	<PQL
CCV9	CCV	1	19.81	0.152	15	PASS	19.67	0.597	15	PASS
CCB9	CCB	1	0.01	140.178	15	<PQL	0.01	120.574	15	<PQL
ICSA4	ICSA	1	0	1677.881	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.3	1.011	15	PASS	20.43	1.239	15	PASS
CCV10	CCV	1	19.48	0.967	15	PASS	19.7	1.513	15	PASS
CCB10	CCB	1	0	130.988	15	<PQL	0.02	36.506	15	<PQL
CCV11	CCV	1	19.79	0.862	15	PASS	20.01	1.858	15	PASS
CCB11	CCB	1	0.01	39.356	15	<PQL	0.01	10.978	15	PASS
CCV12	CCV	1	19.75	1.833	15	PASS	19.9	1.871	15	PASS
CCB12	CCB	1	0.01	48.518	15	<PQL	0.01	341.357	15	<PQL
ICSA5	ICSA	1	0	350.273	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.08	1.06	15	PASS	20.78	1.468	15	PASS
CCV13	CCV	1	19.38	1.897	15	PASS	19.99	0.334	15	PASS
CCB13	CCB	1	0	136.515	15	<PQL	0.03	70.508	15	<PQL
CCV14	CCV	1	19.5	1.825	15	PASS	19.66	0.842	15	PASS
CCB14	CCB	1	0.01	201.232	15	<PQL	0.03	22.793	15	<PQL
CCV15	CCV	1	19.25	1.156	15	PASS	19.98	2.55	15	PASS
CCB15	CCB	1	0.01	37.157	15	<PQL	0.01	294.985	15	<PQL
N062272-018C	SAMP	1	40.7	1.67	15	PASS	30.21	1.912	15	PASS
N062272-018C	SAMP	1	40.93	0.446	15	PASS	29.55	1.548	15	PASS
N062272-018C	SAMP	1	41.82	0.777	15	PASS	29.53	0.812	15	PASS
CCV16	CCV	1	19.38	0.886	15	PASS	20.02	1.503	15	PASS
CCB16	CCB	1	0.01	43.061	15	<PQL	0.02	39.359	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	19.89	1.469	15	PASS	20.95	1.007	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	29.844	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	12.06	15	PASS
Std3-5/50 ppb	ICAL	1	4.68	2.998	15	PASS
Std4-10/100 ppb	ICAL	1	9.54	4.33	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.26	2.717	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.42	0.676	15	PASS
Std7-100/1000 ppb	ICAL	1	97.77	1.439	15	PASS
Std8-200/2000 ppb	ICAL	1	201.53	1.357	15	PASS
ICV	ICV	1	9.74	2.799	15	PASS
ICV	ICV	1	10.11	1.735	15	PASS
ICB	ICB	1	0.02	86.307	15	<PQL
LLICV1	LLICV	1	0.14	21.507	20	NR!
LLICV1	LLICV	1	0.11	29.103	20	NR!
MLCCV	CCV	1	19.28	1.402	15	PASS
ICSA1	ICSA	1	0.02	85.182	15	<PQL
ICSAB1	ICSAB	1	20.36	2.746	15	PASS
CCV1	CCV	1	19.09	0.842	15	PASS
CCB1	CCB	1	0.02	111.383	15	<PQL
CCV2	CCV	1	19.07	2.664	15	PASS
CCB2	CCB	1	0.02	76.048	15	<PQL
CCV3	CCV	1	18.95	0.948	15	PASS
CCB3	CCB	1	0.02	49.809	15	<PQL
ICSA2	ICSA	1	0.01	166.759	15	<PQL
ICSAB2	ICSAB	1	20.19	1.674	15	PASS
CCV4	CCV	1	19.19	2.051	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.2	2.083	15	PASS
CCB5	CCB	1	0.01	98.19	15	<PQL
N062272-002C	SAMP	10	0.18	19.016	15	NR!
N062272-007C	SAMP	10	0.36	17.308	15	NR!
N062272-008C	SAMP	10	0.33	20.247	15	NR!
N062272-015C	SAMP	1	1.6	19.672	15	NR!
N062272-018C	SAMP	1	0.34	97.151	15	NR!
N062272-019C	SAMP	10	<0.000	N/A	15	<PQL
N062272-015C	SAMP	1	1.93	4.291	15	PASS
N062272-018C	SAMP	1	0.45	33.33	15	NR!
CCV6	CCV	1	18.89	0.441	15	PASS
CCB6	CCB	1	0.02	30.796	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.61	1.631	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	18.78	2.787	15	PASS
CCB7	CCB	1	0.01	68.461	15	<PQL
CCV8	CCV	1	19.31	1.141	15	PASS
CCB8	CCB	1	0.04	43.657	15	<PQL
CCV9	CCV	1	18.76	3.325	15	PASS
CCB9	CCB	1	0.01	205.289	15	<PQL
ICSA4	ICSA	1	0.02	79.572	15	<PQL
ICSAB4	ICSAB	1	19.64	1.498	15	PASS
CCV10	CCV	1	18.94	2.739	15	PASS
CCB10	CCB	1	0.01	54.859	15	<PQL
CCV11	CCV	1	18.94	4.082	15	PASS
CCB11	CCB	1	0.01	71.648	15	<PQL
CCV12	CCV	1	18.83	0.475	15	PASS
CCB12	CCB	1	0.02	177.849	15	<PQL
ICSA5	ICSA	1	0.01	180.871	15	<PQL
ICSAB5	ICSAB	1	20.12	1.691	15	PASS
CCV13	CCV	1	19.07	1.651	15	PASS
CCB13	CCB	1	0.01	187.852	15	<PQL
CCV14	CCV	1	19	2.241	15	PASS
CCB14	CCB	1	0.01	132.104	15	<PQL
CCV15	CCV	1	18.67	2.427	15	PASS
CCB15	CCB	1	0.02	53.472	15	<PQL
N062272-018C	SAMP	1	0.93	18.934	15	NR!
N062272-018C	SAMP	1	1.21	18.2	15	NR!
N062272-018C	SAMP	1	0.93	24.704	15	NR!
CCV16	CCV	1	18.81	3.174	15	PASS
CCB16	CCB	1	0.03	35.51	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	19.79	2.763	15	PASS

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	23.298	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.44	9.077	15	PASS
Std3-5/50 ppb	ICAL	1	4.64	4.276	15	PASS
Std4-10/100 ppb	ICAL	1	9.98	2.1	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.19	1.181	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.97	1.032	15	PASS
Std7-100/1000 ppb	ICAL	1	99.15	0.762	15	PASS
Std8-200/2000 ppb	ICAL	1	200.72	0.234	15	PASS
ICV	ICV	1	10.43	4.601	15	PASS
ICB	ICB	1	0.02	110.856	15	<PQL
LLICV1	LLICV	1	0.11	17.235	20	PASS
MLCCV	CCV	1	19.53	0.549	15	PASS
ICSA1	ICSA	1	0.01	90.623	15	<PQL
ICSAB1	ICSAB	1	20.14	1.553	15	PASS
CCV1	CCV	1	19.38	3.569	15	PASS
CCB1	CCB	1	0.01	63.373	15	<PQL
CCV2	CCV	1	19.74	1.371	15	PASS
CCB2	CCB	1	0.01	68.389	15	<PQL
ICSA2	ICSA	1	0.02	110.412	15	<PQL
ICSAB2	ICSAB	1	20.17	5.478	15	PASS
CCV3	CCV	1	19.58	3.284	15	PASS
CCB3	CCB	1	0.03	58.046	15	<PQL
CCV4	CCV	1	19.63	1.25	15	PASS
CCB4	CCB	1	0.03	49.599	15	<PQL
CCV5	CCV	1	19.21	2.12	15	PASS
CCB5	CCB	1	0.01	66.678	15	<PQL
CCV6	CCV	1	19.69	1.414	15	PASS
CCB6	CCB	1	0.04	79.427	15	<PQL
ICSA3	ICSA	1	0.01	243.68	15	<PQL
ICSAB3	ICSAB	1	19.94	2.631	15	PASS
N062272-018C	SAMP	1	0.54	12.858	15	PASS
CCV7	CCV	1	19.25	3.842	15	PASS
CCB7	CCB	1	0.03	74.547	15	<PQL
CCV8	CCV	1	18.94	1.742	15	PASS
CCB8	CCB	1	0	174.973	15	<PQL
CCV9	CCV	1	18.8	1.232	15	PASS
CCB9	CCB	1	0.01	48.181	15	<PQL
ICSA4	ICSA	1	0.01	89.14	15	<PQL
ICSAB4	ICSAB	1	19.76	1.448	15	PASS
CCV10	CCV	1	19.1	1.018	15	PASS

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB10	CCB	1	0.01	48.126	15	<PQL
CCV11	CCV	1	19.01	2.945	15	PASS
CCB11	CCB	1	0.01	1.904	15	PASS
CCV12	CCV	1	19.25	1.281	15	PASS
CCB12	CCB	1	0	2108.079	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.53	1.444	15	PASS

PERCENT RSD SUMMARY: 240129A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	20.209	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.4	8.857	15	PASS
Std3-5/50 ppb	ICAL	1	4.77	4.811	15	PASS
Std4-10/100 ppb	ICAL	1	9.52	2.911	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.38	3.892	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.18	0.737	15	PASS
Std7-100/1000 ppb	ICAL	1	97.84	1.953	15	PASS
Std8-200/2000 ppb	ICAL	1	201.34	1.7	15	PASS
ICV	ICV	1	10.49	2.894	15	PASS
ICB	ICB	1	0.01	274.67	15	<PQL
LLICV1	LLICV	1	0.09	51.956	20	<PQL
MLCCV	CCV	1	19.93	3.237	15	PASS
ICSA1	ICSA	1	0.03	64.513	15	<PQL
ICSAB1	ICSAB	1	20.89	1.126	15	PASS
CCV1	CCV	1	19.27	2.14	15	PASS
CCB1	CCB	1	0.01	137.669	15	<PQL
CCV2	CCV	1	18.96	0.473	15	PASS
CCB2	CCB	1	0.02	128.37	15	<PQL
CCV3	CCV	1	19.52	2.158	15	PASS
CCB3	CCB	1	0	2427.468	15	<PQL
ICSA2	ICSA	1	0.02	44.446	15	<PQL
ICSAB2	ICSAB	1	20.33	1.694	15	PASS
CCV4	CCV	1	19.68	1.809	15	PASS
CCB4	CCB	1	0.01	357.097	15	<PQL
CCV5	CCV	1	19.05	1.865	15	PASS
CCB5	CCB	1	0	1418.409	15	<PQL
CCV6	CCV	1	19.29	0.674	15	PASS
CCB6	CCB	1	0.01	70.333	15	<PQL
ICSA3	ICSA	1	0	464.62	15	<PQL
ICSAB3	ICSAB	1	20.61	2.537	15	PASS
MB-105955	MBLK	1	0.01	46.591	15	<PQL
LCS-105955	LCS	1	10.23	0.4	15	PASS
N062272-001C	SAMP	1	15.08	1.968	15	PASS
N062272-002C	SAMP	1	1.75	7.857	15	PASS
N062272-003C	SAMP	1	1.88	5.544	15	PASS
N062272-004C	SAMP	1	0.74	8.729	15	PASS
N062272-004C	SAMP	5	0.1	29.475	15	NR!
N062272-004C-PS	PS	1	10.46	2.282	15	PASS
N062272-004C-MS	MS	1	10.77	0.67	15	PASS
N062272-004C-MSD	MSD	1	10.34	2.867	15	PASS

PERCENT RSD SUMMARY: 240129A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	18.9	3.553	15	PASS
CCB7	CCB	1	0	374.777	15	<PQL
ICSA4	ICSA	1	0	10.465	15	PASS
ICSAB4	ICSAB	1	20.06	1.682	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

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INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110001.d	RINSE	ICAL	1	01/10/24 4:23 PM
A0110002.d	RINSE	ICAL	1	01/10/24 4:28 PM
A0110003.d	Cal Blk	IBLK	1	01/10/24 4:33 PM
A0110004.d	Std1-0.1/1 ppb	ICAL	1	01/10/24 4:37 PM
A0110005.d	Std2-0.5/5 ppb	ICAL	1	01/10/24 4:42 PM
A0110006.d	Std3-5/50 ppb	ICAL	1	01/10/24 4:47 PM
A0110007.d	Std4-10/100 ppb	ICAL	1	01/10/24 4:52 PM
A0110008.d	Std5-4.0/20/200 ppb	ICAL	1	01/10/24 4:57 PM
A0110009.d	Std6-8.0/40/400 ppb	ICAL	1	01/10/24 5:01 PM
A0110010.d	Std7-100/1000 ppb	ICAL	1	01/10/24 5:06 PM
A0110011.d	Std8-200/2000 ppb	ICAL	1	01/10/24 5:11 PM
A0110012.d	ICV	ICV	1	01/10/24 5:18 PM
A0110013.d	ICV	ICV	1	01/10/24 5:23 PM
A0110014.d	ICB	ICB	1	01/10/24 5:27 PM
A0110015.d	LLICV1	LLICV	1	01/10/24 5:32 PM
A0110016.d	MLCCV	CCV	1	01/10/24 5:36 PM
A0110017.d	ICSA1	ICSA	1	01/10/24 5:41 PM
A0110018.d	ICSAB1	ICSAB	1	01/10/24 5:46 PM
A0110019.d	LLICV1	LLICV	1	01/10/24 5:50 PM
A0110020.d	MB-105926	MBLK	1	01/10/24 5:55 PM
A0110021.d	LCS-105926	LCS	1	01/10/24 6:00 PM
A0110022.d	N062207-001A	SAMP	1	01/10/24 6:04 PM
A0110023.d	N062207-001A	SAMP	5	01/10/24 6:09 PM
A0110024.d	N062207-001A-PS	PS	1	01/10/24 6:14 PM
A0110025.d	N062207-001A-MS	MS	1	01/10/24 6:18 PM
A0110026.d	N062207-001A-MSD	MSD	1	01/10/24 6:23 PM
A0110027.d	MB-105957	MBLK	1	01/10/24 6:28 PM
A0110028.d	LCS-105957	LCS	1	01/10/24 6:32 PM
A0110029.d	N062244-001C	SAMP	5	01/10/24 6:37 PM
A0110030.d	N062244-001C-PS	PS	1	01/10/24 6:42 PM
A0110031.d	CCV1	CCV	1	01/10/24 6:46 PM
A0110032.d	CCB1	CCB	1	01/10/24 6:51 PM
A0110033.d	N062244-001C-MS	MS	1	01/10/24 6:56 PM
A0110034.d	N062244-001C-MSD	MSD	1	01/10/24 7:00 PM
A0110035.d	N062244-001C	SAMP	1	01/10/24 7:05 PM
A0110036.d	N062244-002C	SAMP	1	01/10/24 7:09 PM
A0110037.d	N062244-004C	SAMP	1	01/10/24 7:14 PM
A0110038.d	N062279-010D	SAMP	1	01/10/24 7:19 PM
A0110039.d	N062279-011D	SAMP	1	01/10/24 7:23 PM
A0110040.d	N062279-012D	SAMP	1	01/10/24 7:28 PM
A0110041.d	CCV2	CCV	1	01/10/24 7:33 PM
A0110042.d	CCB2	CCB	1	01/10/24 7:37 PM

INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110043.d	ICSA2	ICSA	1	01/10/24 7:42 PM
A0110044.d	ICSAB2	ICSAB	1	01/10/24 7:47 PM
A0110045.d	MB-105963	MBLK	1	01/10/24 7:51 PM
A0110046.d	LCS-105963	LCS	1	01/10/24 7:56 PM
A0110047.d	N062300-001A	SAMP	1	01/10/24 8:01 PM
A0110048.d	N062300-001A	SAMP	5	01/10/24 8:05 PM
A0110049.d	N062300-001A-PS	PS	1	01/10/24 8:10 PM
A0110050.d	N062300-001A-MS	MS	1	01/10/24 8:14 PM
A0110051.d	N062300-001A-MSD	MSD	1	01/10/24 8:19 PM
A0110052.d	N062301-001A	SAMP	1	01/10/24 8:24 PM
A0110053.d	CCV3	CCV	1	01/10/24 8:28 PM
A0110054.d	CCB3	CCB	1	01/10/24 8:33 PM
A0110055.d	N062242-005B	SAMP	1	01/10/24 8:38 PM
A0110056.d	N062244-003D	SAMP	10	01/10/24 8:42 PM
A0110057.d	N062244-003D	SAMP	50	01/10/24 8:47 PM
A0110058.d	N062244-003D-PS	PS	10	01/10/24 8:52 PM
A0110059.d	N062244-003D-MS	MS	10	01/10/24 8:56 PM
A0110060.d	N062244-003D-MSD	MSD	10	01/10/24 9:01 PM
A0110061.d	N062245-001D	SAMP	10	01/10/24 9:06 PM
A0110062.d	N062245-002D	SAMP	10	01/10/24 9:10 PM
A0110063.d	N062245-003D	SAMP	10	01/10/24 9:15 PM
A0110064.d	N062245-006D	SAMP	10	01/10/24 9:19 PM
A0110065.d	CCV4	CCV	1	01/10/24 9:24 PM
A0110066.d	CCB4	CCB	1	01/10/24 9:29 PM
A0110067.d	N062245-009D	SAMP	1	01/10/24 9:33 PM
A0110068.d	N062245-010D	SAMP	1	01/10/24 9:38 PM
A0110069.d	N062245-012D	SAMP	1	01/10/24 9:43 PM
A0110070.d	N062243-002E	SAMP	1	01/10/24 9:47 PM
A0110071.d	N062241-004C	SAMP	1	01/10/24 9:52 PM
A0110072.d	N062241-006C	SAMP	10	01/10/24 9:57 PM
A0110073.d	N062239-001C	SAMP	100	01/10/24 10:01 PM
A0110074.d	N062239-001C	SAMP	500	01/10/24 10:06 PM
A0110075.d	N062239-001C-PS	PS	100	01/10/24 10:11 PM
A0110076.d	N062239-001C-MS	MS	100	01/10/24 10:15 PM
A0110077.d	CCV5	CCV	1	01/10/24 10:20 PM
A0110078.d	CCB5	CCB	1	01/10/24 10:24 PM
A0110079.d	N062239-001C-MSD	MSD	100	01/10/24 10:29 PM
A0110080.d	N062242-005B	SAMP	1	01/10/24 10:34 PM
A0110081.d	N062245-009D	SAMP	1	01/10/24 10:38 PM
A0110082.d	N062245-010D	SAMP	1	01/10/24 10:43 PM
A0110083.d	N062245-012D	SAMP	1	01/10/24 10:48 PM
A0110084.d	N062243-002E	SAMP	1	01/10/24 10:52 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110085.d	N062241-004C	SAMP	1	01/10/24 10:57 PM
A0110086.d	RINSE	ICAL	1	01/10/24 11:02 PM
A0110087.d	CCV6	CCV	1	01/10/24 11:06 PM
A0110088.d	CCB6	CCB	1	01/10/24 11:11 PM
A0110089.d	ICSA3	ICSA	1	01/10/24 11:16 PM
A0110090.d	ICSAB3	ICSAB	1	01/10/24 11:20 PM
A0110091.d	MB-105953	MBLK	1	01/10/24 11:25 PM
A0110092.d	LCS-105953	LCS	1	01/10/24 11:29 PM
A0110093.d	N062274-001B	SAMP	1	01/10/24 11:34 PM
A0110094.d	N062274-002B	SAMP	1	01/10/24 11:39 PM
A0110095.d	N062274-003B	SAMP	1	01/10/24 11:44 PM
A0110096.d	N062275-001B	SAMP	1	01/10/24 11:48 PM
A0110097.d	N062275-002B	SAMP	1	01/10/24 11:53 PM
A0110098.d	N062276-001B	SAMP	1	01/10/24 11:57 PM
A0110099.d	N062278-002D	SAMP	1	01/11/24 12:02 AM
A0110100.d	RINSE	ICAL	1	01/11/24 12:07 AM
A0110101.d	CCV7	CCV	1	01/11/24 12:12 AM
A0110102.d	CCB7	CCB	1	01/11/24 12:16 AM
A0110103.d	N062278-002D	SAMP	5	01/11/24 12:21 AM
A0110104.d	N062278-002D-PS	PS	1	01/11/24 12:25 AM
A0110105.d	N062278-002D-MS	MS	1	01/11/24 12:30 AM
A0110106.d	N062278-002D-MSD	MSD	1	01/11/24 12:35 AM
A0110107.d	N062278-003D	SAMP	1	01/11/24 12:40 AM
A0110108.d	N062278-004D	SAMP	1	01/11/24 12:44 AM
A0110109.d	N062278-005D	SAMP	1	01/11/24 12:49 AM
A0110110.d	N062278-007D	SAMP	1	01/11/24 12:53 AM
A0110111.d	N062278-008D	SAMP	1	01/11/24 12:58 AM
A0110112.d	RINSE	ICAL	1	01/11/24 1:03 AM
A0110113.d	CCV8	CCV	1	01/11/24 1:07 AM
A0110114.d	CCB8	CCB	1	01/11/24 1:12 AM
A0110115.d	N062278-009D	SAMP	1	01/11/24 1:17 AM
A0110116.d	N062278-010D	SAMP	1	01/11/24 1:21 AM
A0110117.d	N062278-011D	SAMP	1	01/11/24 1:26 AM
A0110118.d	N062278-012D	SAMP	1	01/11/24 1:31 AM
A0110119.d	N062279-022D	SAMP	1	01/11/24 1:35 AM
A0110120.d	N062279-023D	SAMP	1	01/11/24 1:40 AM
A0110121.d	RINSE	ICAL	1	01/11/24 1:45 AM
A0110122.d	CCV9	CCV	1	01/11/24 1:49 AM
A0110123.d	CCB9	CCB	1	01/11/24 1:54 AM
A0110124.d	ICSA4	ICSA	1	01/11/24 1:59 AM
A0110125.d	ICSAB4	ICSAB	1	01/11/24 2:03 AM
A0110126.d	MB-105954	MBLK	1	01/11/24 2:08 AM

INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110127.d	LCS-105954	LCS	1	01/11/24 2:13 AM
A0110128.d	N062279-001D	SAMP	1	01/11/24 2:17 AM
A0110129.d	N062279-001D	SAMP	5	01/11/24 2:22 AM
A0110130.d	N062279-001D-PS	PS	1	01/11/24 2:27 AM
A0110131.d	N062279-001D-MS	MS	1	01/11/24 2:31 AM
A0110132.d	N062279-001D-MSD	MSD	1	01/11/24 2:36 AM
A0110133.d	N062279-002D	SAMP	1	01/11/24 2:41 AM
A0110134.d	N062279-003D	SAMP	1	01/11/24 2:45 AM
A0110135.d	RINSE	ICAL	1	01/11/24 2:50 AM
A0110136.d	CCV10	CCV	1	01/11/24 2:55 AM
A0110137.d	CCB10	CCB	1	01/11/24 2:59 AM
A0110138.d	N062279-004D	SAMP	1	01/11/24 3:04 AM
A0110139.d	N062279-005D	SAMP	1	01/11/24 3:09 AM
A0110140.d	N062279-006D	SAMP	1	01/11/24 3:13 AM
A0110141.d	N062279-008D	SAMP	1	01/11/24 3:18 AM
A0110142.d	N062279-009D	SAMP	1	01/11/24 3:23 AM
A0110143.d	N062279-010D	SAMP	1	01/11/24 3:27 AM
A0110144.d	N062279-011D	SAMP	1	01/11/24 3:32 AM
A0110145.d	N062279-012D	SAMP	1	01/11/24 3:37 AM
A0110146.d	N062279-013B	SAMP	1	01/11/24 3:41 AM
A0110147.d	RINSE	ICAL	1	01/11/24 3:46 AM
A0110148.d	CCV11	CCV	1	01/11/24 3:50 AM
A0110149.d	CCB11	CCB	1	01/11/24 3:55 AM
A0110150.d	N062279-014B	SAMP	1	01/11/24 4:00 AM
A0110151.d	N062279-015B	SAMP	1	01/11/24 4:05 AM
A0110152.d	N062279-016B	SAMP	1	01/11/24 4:09 AM
A0110153.d	N062279-017B	SAMP	1	01/11/24 4:14 AM
A0110154.d	N062279-018B	SAMP	1	01/11/24 4:18 AM
A0110155.d	N062279-019B	SAMP	1	01/11/24 4:23 AM
A0110156.d	N062279-020B	SAMP	1	01/11/24 4:28 AM
A0110157.d	N062279-021B	SAMP	1	01/11/24 4:32 AM
A0110158.d	RINSE	ICAL	1	01/11/24 4:37 AM
A0110159.d	CCV12	CCV	1	01/11/24 4:42 AM
A0110160.d	CCB12	CCB	1	01/11/24 4:46 AM
A0110161.d	ICSA5	ICSA	1	01/11/24 4:51 AM
A0110162.d	ICSAB5	ICSAB	1	01/11/24 4:56 AM
A0110163.d	MB-105955	MBLK	1	01/11/24 5:00 AM
A0110164.d	LCS-105955	LCS	1	01/11/24 5:05 AM
A0110165.d	N062272-001C	SAMP	1	01/11/24 5:10 AM
A0110166.d	N062272-002C	SAMP	1	01/11/24 5:14 AM
A0110167.d	N062272-003C	SAMP	1	01/11/24 5:19 AM
A0110168.d	N062272-004C	SAMP	1	01/11/24 5:24 AM

INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110169.d	N062272-004C	SAMP	5	01/11/24 5:28 AM
A0110170.d	N062272-004C-PS	PS	1	01/11/24 5:33 AM
A0110171.d	N062272-004C-MS	MS	1	01/11/24 5:38 AM
A0110172.d	RINSE	ICAL	1	01/11/24 5:42 AM
A0110173.d	CCV13	CCV	1	01/11/24 5:47 AM
A0110174.d	CCB13	CCB	1	01/11/24 5:52 AM
A0110175.d	N062272-004C-MSD	MSD	1	01/11/24 5:56 AM
A0110176.d	N062272-005C	SAMP	1	01/11/24 6:01 AM
A0110177.d	N062272-006C	SAMP	1	01/11/24 6:06 AM
A0110178.d	N062272-007C	SAMP	1	01/11/24 6:10 AM
A0110179.d	N062272-008C	SAMP	1	01/11/24 6:15 AM
A0110180.d	N062272-009C	SAMP	1	01/11/24 6:20 AM
A0110181.d	N062272-010C	SAMP	1	01/11/24 6:24 AM
A0110182.d	N062272-011C	SAMP	1	01/11/24 6:29 AM
A0110183.d	N062272-013C	SAMP	1	01/11/24 6:34 AM
A0110184.d	RINSE	ICAL	1	01/11/24 6:38 AM
A0110185.d	CCV14	CCV	1	01/11/24 6:43 AM
A0110186.d	CCB14	CCB	1	01/11/24 6:48 AM
A0110187.d	N062272-014C	SAMP	1	01/11/24 6:52 AM
A0110188.d	N062272-015C	SAMP	1	01/11/24 6:57 AM
A0110189.d	N062272-016C	SAMP	1	01/11/24 7:02 AM
A0110190.d	N062272-017C	SAMP	1	01/11/24 7:06 AM
A0110191.d	N062272-018C	SAMP	1	01/11/24 7:11 AM
A0110192.d	N062272-019C	SAMP	1	01/11/24 7:16 AM
A0110193.d	N062272-020C	SAMP	1	01/11/24 7:20 AM
A0110194.d	RINSE	ICAL	1	01/11/24 7:25 AM
A0110195.d	CCV15	CCV	1	01/11/24 7:30 AM
A0110196.d	CCB15	CCB	1	01/11/24 7:34 AM
A0110197.d	MB-105956	MBLK	1	01/11/24 7:39 AM
A0110198.d	LCS-105956	LCS	1	01/11/24 7:44 AM
A0110199.d	N062274-001C	SAMP	1	01/11/24 7:48 AM
A0110200.d	N062274-002C	SAMP	1	01/11/24 7:53 AM
A0110201.d	N062274-002C	SAMP	5	01/11/24 7:58 AM
A0110202.d	N062274-002C-PS	PS	1	01/11/24 8:02 AM
A0110203.d	N062274-002C-MS	MS	1	01/11/24 8:07 AM
A0110204.d	N062274-002C-MSD	MSD	1	01/11/24 8:12 AM
A0110205.d	N062274-003C	SAMP	1	01/11/24 8:16 AM
A0110206.d	RINSE	ICAL	1	01/11/24 8:21 AM
A0110207.d	CCV16	CCV	1	01/11/24 8:26 AM
A0110208.d	CCB16	CCB	1	01/11/24 8:30 AM
A0110209.d	ICSA6	ICSA	1	01/11/24 8:35 AM
A0110210.d	ICSAB6	ICSAB	1	01/11/24 8:40 AM

INJECTION LOG: 240110A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0110211.d	RINSE	ICAL	1	01/11/24 8:44 AM
A0110212.d	RINSE	ICAL	1	01/11/24 8:49 AM
A0110213.d	RINSE	ICAL	1	01/11/24 8:54 AM
A0110214.d	RINSE	ICAL	1	01/11/24 8:58 AM
A0110215.d	RINSE	ICAL	1	01/11/24 9:03 AM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111001.d	RINSE	ICAL	1	01/11/24 1:07 PM
A0111002.d	RINSE	ICAL	1	01/11/24 1:12 PM
A0111003.d	Cal Blk	IBLK	1	01/11/24 1:17 PM
A0111004.d	Std1-0.1/1 ppb	ICAL	1	01/11/24 1:21 PM
A0111005.d	Std2-0.5/5 ppb	ICAL	1	01/11/24 1:26 PM
A0111006.d	Std3-5/50 ppb	ICAL	1	01/11/24 1:31 PM
A0111007.d	Std4-10/100 ppb	ICAL	1	01/11/24 1:36 PM
A0111008.d	Std5-4.0/20/200 ppb	ICAL	1	01/11/24 1:40 PM
A0111009.d	Std6-8.0/40/400 ppb	ICAL	1	01/11/24 1:45 PM
A0111010.d	Std7-100/1000 ppb	ICAL	1	01/11/24 1:50 PM
A0111011.d	Std8-200/2000 ppb	ICAL	1	01/11/24 1:55 PM
A0111012.d	ICV	ICV	1	01/11/24 2:12 PM
A0111013.d	ICV	ICV	1	01/11/24 2:16 PM
A0111014.d	ICB	ICB	1	01/11/24 2:21 PM
A0111015.d	LLICV1	LLICV	1	01/11/24 2:26 PM
A0111016.d	LLICV1	LLICV	1	01/11/24 2:31 PM
A0111017.d	MLCCV	CCV	1	01/11/24 2:38 PM
A0111018.d	ICSA1	ICSA	1	01/11/24 2:42 PM
A0111019.d	ICSAB1	ICSAB	1	01/11/24 2:47 PM
A0111020.d	N062244-003D	SAMP	10	01/11/24 2:52 PM
A0111021.d	N062244-003D	SAMP	50	01/11/24 2:56 PM
A0111022.d	N062244-003D-PS	PS	10	01/11/24 3:01 PM
A0111023.d	N062244-003D-MS	MS	10	01/11/24 3:06 PM
A0111024.d	N062244-003D-MSD	MSD	10	01/11/24 3:10 PM
A0111025.d	N062245-001D	SAMP	10	01/11/24 3:15 PM
A0111026.d	N062245-002D	SAMP	10	01/11/24 3:20 PM
A0111027.d	N062245-003D	SAMP	10	01/11/24 3:24 PM
A0111028.d	N062245-006D	SAMP	10	01/11/24 3:29 PM
A0111029.d	CCV1	CCV	1	01/11/24 3:33 PM
A0111030.d	CCB1	CCB	1	01/11/24 3:38 PM
A0111031.d	N062245-009D	SAMP	1	01/11/24 3:43 PM
A0111032.d	N062245-010D	SAMP	1	01/11/24 3:47 PM
A0111033.d	N062245-012D	SAMP	1	01/11/24 3:52 PM
A0111034.d	N062243-002E	SAMP	1	01/11/24 3:57 PM
A0111035.d	N062241-004C	SAMP	1	01/11/24 4:01 PM
A0111036.d	N062241-006C	SAMP	10	01/11/24 4:06 PM
A0111037.d	N062239-001C	SAMP	100	01/11/24 4:11 PM
A0111038.d	N062239-001C	SAMP	500	01/11/24 4:15 PM
A0111039.d	N062239-001C-PS	PS	100	01/11/24 4:20 PM
A0111040.d	N062239-001C-MS	MS	100	01/11/24 4:25 PM
A0111041.d	CCV2	CCV	1	01/11/24 4:29 PM
A0111042.d	CCB2	CCB	1	01/11/24 4:34 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0111043.d	N062239-001C-MSD	MSD	100	01/11/24 4:38 PM
A0111044.d	N062245-006D	SAMP	100	01/11/24 4:43 PM
A0111045.d	N062245-009D	SAMP	1	01/11/24 4:48 PM
A0111046.d	N062245-010D	SAMP	1	01/11/24 4:52 PM
A0111047.d	N062245-010D	SAMP	1	01/11/24 4:57 PM
A0111048.d	N062245-010D	SAMP	1	01/11/24 5:02 PM
A0111049.d	N062245-010D	SAMP	1	01/11/24 5:06 PM
A0111050.d	CCV3	CCV	1	01/11/24 5:11 PM
A0111051.d	CCB3	CCB	1	01/11/24 5:16 PM
A0111052.d	ICSA2	ICSA	1	01/11/24 5:20 PM
A0111053.d	ICSAB2	ICSAB	1	01/11/24 5:25 PM
A0111054.d	N062274-001B	SAMP	10	01/11/24 5:30 PM
A0111055.d	N062274-002B	SAMP	10	01/11/24 5:34 PM
A0111056.d	N062274-003B	SAMP	10	01/11/24 5:39 PM
A0111057.d	N062278-002D	SAMP	1	01/11/24 5:44 PM
A0111058.d	N062278-002D	SAMP	100	01/11/24 5:48 PM
A0111059.d	N062278-002D	SAMP	500	01/11/24 5:53 PM
A0111060.d	N062278-002D-PS	PS	100	01/11/24 5:58 PM
A0111061.d	N062278-002D-MS	MS	100	01/11/24 6:02 PM
A0111062.d	N062278-002D-MSD	MSD	100	01/11/24 6:07 PM
A0111063.d	N062278-003D	SAMP	100	01/11/24 6:11 PM
A0111064.d	CCV4	CCV	1	01/11/24 6:16 PM
A0111065.d	CCB4	CCB	1	01/11/24 6:21 PM
A0111066.d	N062278-004D	SAMP	10	01/11/24 6:25 PM
A0111067.d	N062278-005D	SAMP	100	01/11/24 6:30 PM
A0111068.d	N062278-008D	SAMP	10	01/11/24 6:35 PM
A0111069.d	N062278-009D	SAMP	100	01/11/24 6:39 PM
A0111070.d	N062278-011D	SAMP	1	01/11/24 6:44 PM
A0111071.d	N062279-023D	SAMP	1	01/11/24 6:49 PM
A0111072.d	N062279-005D	SAMP	10	01/11/24 6:53 PM
A0111073.d	N062279-006D	SAMP	10	01/11/24 6:58 PM
A0111074.d	N062279-008D	SAMP	1	01/11/24 7:03 PM
A0111075.d	N062279-008D	SAMP	10	01/11/24 7:07 PM
A0111076.d	CCV5	CCV	1	01/11/24 7:12 PM
A0111077.d	CCB5	CCB	1	01/11/24 7:17 PM
A0111078.d	N062272-002C	SAMP	10	01/11/24 7:21 PM
A0111079.d	N062272-007C	SAMP	10	01/11/24 7:26 PM
A0111080.d	N062272-008C	SAMP	10	01/11/24 7:31 PM
A0111081.d	N062272-015C	SAMP	1	01/11/24 7:35 PM
A0111082.d	N062272-018C	SAMP	1	01/11/24 7:40 PM
A0111083.d	N062272-019C	SAMP	10	01/11/24 7:45 PM
A0111084.d	N062279-023D	SAMP	1	01/11/24 7:51 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0111085.d	N062272-015C	SAMP	1	01/11/24 7:55 PM
A0111086.d	N062272-018C	SAMP	1	01/11/24 8:00 PM
A0111087.d	RINSE	ICAL	1	01/11/24 8:05 PM
A0111088.d	CCV6	CCV	1	01/11/24 8:09 PM
A0111089.d	CCB6	CCB	1	01/11/24 8:14 PM
A0111090.d	ICSA3	ICSA	1	01/11/24 8:19 PM
A0111091.d	ICSAB3	ICSAB	1	01/11/24 8:23 PM
A0111092.d	MB-105984	MBLK	1	01/11/24 8:28 PM
A0111093.d	LCS-105984	LCS	1	01/11/24 8:33 PM
A0111094.d	N062307-001B	SAMP	1	01/11/24 8:37 PM
A0111095.d	N062309-001B	SAMP	1	01/11/24 8:42 PM
A0111096.d	N062309-002D	SAMP	1	01/11/24 8:46 PM
A0111097.d	N062309-003D	SAMP	1	01/11/24 8:51 PM
A0111098.d	N062309-004D	SAMP	1	01/11/24 8:56 PM
A0111099.d	N062309-005D	SAMP	1	01/11/24 9:00 PM
A0111100.d	N062309-006D	SAMP	1	01/11/24 9:05 PM
A0111101.d	RINSE	ICAL	1	01/11/24 9:10 PM
A0111102.d	CCV7	CCV	1	01/11/24 9:14 PM
A0111103.d	CCB7	CCB	1	01/11/24 9:19 PM
A0111104.d	N062309-007D	SAMP	1	01/11/24 9:24 PM
A0111105.d	N062309-007D	SAMP	5	01/11/24 9:28 PM
A0111106.d	N062309-007D-PS	PS	1	01/11/24 9:33 PM
A0111107.d	N062309-007DMS	MS	1	01/11/24 9:38 PM
A0111108.d	N062309-007DMSD	MSD	1	01/11/24 9:42 PM
A0111109.d	N062309-008D	SAMP	1	01/11/24 9:47 PM
A0111110.d	N062309-008D	SAMP	5	01/11/24 9:51 PM
A0111111.d	N062309-008D-PS	PS	1	01/11/24 9:56 PM
A0111112.d	N062309-008DMS	MS	1	01/11/24 10:01 PM
A0111113.d	RINSE	ICAL	1	01/11/24 10:05 PM
A0111114.d	CCV8	CCV	1	01/11/24 10:10 PM
A0111115.d	CCB8	CCB	1	01/11/24 10:15 PM
A0111116.d	N062309-008DMSD	MSD	1	01/11/24 10:19 PM
A0111117.d	N062309-009D	SAMP	1	01/11/24 10:24 PM
A0111118.d	N062309-010D	SAMP	1	01/11/24 10:29 PM
A0111119.d	N062309-011D	SAMP	1	01/11/24 10:33 PM
A0111120.d	N062309-012D	SAMP	1	01/11/24 10:38 PM
A0111121.d	N062310-001D	SAMP	1	01/11/24 10:43 PM
A0111122.d	N062310-002D	SAMP	1	01/11/24 10:47 PM
A0111123.d	N062310-003D	SAMP	1	01/11/24 10:52 PM
A0111124.d	N062310-004D	SAMP	1	01/11/24 10:57 PM
A0111125.d	RINSE	ICAL	1	01/11/24 11:01 PM
A0111126.d	CCV9	CCV	1	01/11/24 11:06 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0111127.d	CCB9	CCB	1	01/11/24 11:11 PM
A0111128.d	ICSA4	ICSA	1	01/11/24 11:15 PM
A0111129.d	ICSAB4	ICSAB	1	01/11/24 11:20 PM
A0111130.d	N062310-005B	SAMP	1	01/11/24 11:24 PM
A0111131.d	N062310-006B	SAMP	1	01/11/24 11:29 PM
A0111132.d	N062310-007B	SAMP	1	01/11/24 11:34 PM
A0111133.d	MB-105985	MBLK	1	01/11/24 11:38 PM
A0111134.d	LCS-105985	LCS	1	01/11/24 11:43 PM
A0111135.d	N062310-008D	SAMP	1	01/11/24 11:48 PM
A0111136.d	N062310-009B	SAMP	1	01/11/24 11:52 PM
A0111137.d	N062310-010B	SAMP	1	01/11/24 11:57 PM
A0111138.d	N062310-011B	SAMP	1	01/12/24 12:02 AM
A0111139.d	RINSE	ICAL	1	01/12/24 12:06 AM
A0111140.d	CCV10	CCV	1	01/12/24 12:11 AM
A0111141.d	CCB10	CCB	1	01/12/24 12:16 AM
A0111142.d	N062310-012B	SAMP	1	01/12/24 12:20 AM
A0111143.d	N062310-013B	SAMP	1	01/12/24 12:25 AM
A0111144.d	N062310-014B	SAMP	1	01/12/24 12:30 AM
A0111145.d	N062310-015D	SAMP	1	01/12/24 12:34 AM
A0111146.d	N062310-016D	SAMP	1	01/12/24 12:39 AM
A0111147.d	N062310-016D	SAMP	5	01/12/24 12:44 AM
A0111148.d	N062310-016D-PS	PS	1	01/12/24 12:48 AM
A0111149.d	N062310-016DMS	MS	1	01/12/24 12:53 AM
A0111150.d	N062310-016DMSD	MSD	1	01/12/24 12:58 AM
A0111151.d	RINSE	ICAL	1	01/12/24 1:02 AM
A0111152.d	CCV11	CCV	1	01/12/24 1:07 AM
A0111153.d	CCB11	CCB	1	01/12/24 1:12 AM
A0111154.d	N062310-017D	SAMP	1	01/12/24 1:16 AM
A0111155.d	N062310-018D	SAMP	1	01/12/24 1:21 AM
A0111156.d	N062310-019D	SAMP	1	01/12/24 1:25 AM
A0111157.d	N062310-019D	SAMP	5	01/12/24 1:30 AM
A0111158.d	N062310-019D-PS	PS	1	01/12/24 1:35 AM
A0111159.d	N062310-019DMS	MS	1	01/12/24 1:39 AM
A0111160.d	N062310-019DMSD	MSD	1	01/12/24 1:44 AM
A0111161.d	N062310-020D	SAMP	1	01/12/24 1:49 AM
A0111162.d	N062310-021D	SAMP	1	01/12/24 1:53 AM
A0111163.d	RINSE	ICAL	1	01/12/24 1:58 AM
A0111164.d	CCV12	CCV	1	01/12/24 2:03 AM
A0111165.d	CCB12	CCB	1	01/12/24 2:07 AM
A0111166.d	ICSA5	ICSA	1	01/12/24 2:12 AM
A0111167.d	ICSAB5	ICSAB	1	01/12/24 2:17 AM
A0111168.d	N062310-022D	SAMP	1	01/12/24 2:21 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111169.d	N062310-022D	SAMP	5	01/12/24 2:26 AM
A0111170.d	N062310-022D-PS	PS	1	01/12/24 2:31 AM
A0111171.d	N062310-022DMS	MS	1	01/12/24 2:35 AM
A0111172.d	N062310-022DMSD	MSD	1	01/12/24 2:40 AM
A0111173.d	N062310-023D	SAMP	1	01/12/24 2:45 AM
A0111174.d	MB-105986	MBLK	1	01/12/24 2:49 AM
A0111175.d	LCS-105986	LCS	1	01/12/24 2:54 AM
A0111176.d	N062311-001B	SAMP	1	01/12/24 2:59 AM
A0111177.d	RINSE	ICAL	1	01/12/24 3:03 AM
A0111178.d	CCV13	CCV	1	01/12/24 3:08 AM
A0111179.d	CCB13	CCB	1	01/12/24 3:13 AM
A0111180.d	N062312-001C	SAMP	1	01/12/24 3:17 AM
A0111181.d	N062312-002C	SAMP	1	01/12/24 3:22 AM
A0111182.d	N062312-003C	SAMP	1	01/12/24 3:27 AM
A0111183.d	N062312-004C	SAMP	1	01/12/24 3:31 AM
A0111184.d	N062312-005C	SAMP	1	01/12/24 3:36 AM
A0111185.d	N062312-006C	SAMP	1	01/12/24 3:41 AM
A0111186.d	N062312-006C	SAMP	5	01/12/24 3:45 AM
A0111187.d	N062312-006C-PS	PS	1	01/12/24 3:50 AM
A0111188.d	N062312-006CMS	MS	1	01/12/24 3:54 AM
A0111189.d	RINSE	ICAL	1	01/12/24 3:59 AM
A0111190.d	CCV14	CCV	1	01/12/24 4:04 AM
A0111191.d	CCB14	CCB	1	01/12/24 4:09 AM
A0111192.d	N062312-006CMSD	MSD	1	01/12/24 4:13 AM
A0111193.d	N062312-007C	SAMP	1	01/12/24 4:18 AM
A0111194.d	N062312-008C	SAMP	1	01/12/24 4:22 AM
A0111195.d	N062312-010C	SAMP	1	01/12/24 4:27 AM
A0111196.d	N062312-011C	SAMP	1	01/12/24 4:32 AM
A0111197.d	N062312-012C	SAMP	1	01/12/24 4:37 AM
A0111198.d	N062312-013C	SAMP	1	01/12/24 4:41 AM
A0111199.d	N062312-014C	SAMP	1	01/12/24 4:46 AM
A0111200.d	N062312-015C	SAMP	1	01/12/24 4:50 AM
A0111201.d	RINSE	ICAL	1	01/12/24 4:55 AM
A0111202.d	CCV15	CCV	1	01/12/24 5:00 AM
A0111203.d	CCB15	CCB	1	01/12/24 5:05 AM
A0111204.d	N062312-016C	SAMP	1	01/12/24 5:09 AM
A0111205.d	N062312-017C	SAMP	1	01/12/24 5:14 AM
A0111206.d	N062312-018C	SAMP	1	01/12/24 5:18 AM
A0111207.d	N062279-023D	SAMP	1	01/12/24 5:23 AM
A0111208.d	N062272-018C	SAMP	1	01/12/24 5:28 AM
A0111209.d	N062279-023D	SAMP	1	01/12/24 5:33 AM
A0111210.d	N062272-018C	SAMP	1	01/12/24 5:37 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0111211.d	N062279-023D	SAMP	1	01/12/24 5:42 AM
A0111212.d	N062272-018C	SAMP	1	01/12/24 5:46 AM
A0111213.d	RINSE	ICAL	1	01/12/24 5:51 AM
A0111214.d	CCV16	CCV	1	01/12/24 5:56 AM
A0111215.d	CCB16	CCB	1	01/12/24 6:01 AM
A0111216.d	ICSA6	ICSA	1	01/12/24 6:05 AM
A0111217.d	ICSAB6	ICSAB	1	01/12/24 6:10 AM
A0111218.d	RINSE	ICAL	1	01/12/24 6:14 AM
A0111219.d	RINSE	ICAL	1	01/12/24 6:19 AM
A0111220.d	RINSE	ICAL	1	01/12/24 6:24 AM
A0111221.d	RINSE	ICAL	1	01/12/24 6:28 AM
A0111222.d	RINSE	ICAL	1	01/12/24 6:33 AM
A0111223.d	RINSE	ICAL	1	01/12/24 6:38 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115001.d	RINSE	ICAL	1	01/15/24 1:00 PM
A0115002.d	RINSE	ICAL	1	01/15/24 1:04 PM
A0115003.d	Cal Blk	IBLK	1	01/15/24 1:09 PM
A0115004.d	Std1-0.1/1 ppb	ICAL	1	01/15/24 1:14 PM
A0115005.d	Std2-0.5/5 ppb	ICAL	1	01/15/24 1:18 PM
A0115006.d	Std3-5/50 ppb	ICAL	1	01/15/24 1:23 PM
A0115007.d	Std4-10/100 ppb	ICAL	1	01/15/24 1:28 PM
A0115008.d	Std5-4.0/20/200 ppb	ICAL	1	01/15/24 1:33 PM
A0115009.d	Std6-8.0/40/400 ppb	ICAL	1	01/15/24 1:37 PM
A0115010.d	Std7-100/1000 ppb	ICAL	1	01/15/24 1:42 PM
A0115011.d	Std8-200/2000 ppb	ICAL	1	01/15/24 1:47 PM
A0115012.d	ICV	ICV	1	01/15/24 1:51 PM
A0115013.d	ICB	ICB	1	01/15/24 1:56 PM
A0115014.d	LLICV1	LLICV	1	01/15/24 2:01 PM
A0115015.d	MLCCV	CCV	1	01/15/24 2:06 PM
A0115016.d	ICSA1	ICSA	1	01/15/24 2:10 PM
A0115017.d	ICSAB1	ICSAB	1	01/15/24 2:15 PM
A0115018.d	MB-106018	MBLK	1	01/15/24 2:20 PM
A0115019.d	LCS-106018	LCS	1	01/15/24 2:25 PM
A0115021.d	MB-106018	MBLK	1	01/15/24 2:31 PM
A0115022.d	LCS-106018	LCS	1	01/15/24 2:36 PM
A0115023.d	N062287-001B	SAMP	1	01/15/24 2:40 PM
A0115024.d	N062287-001B	SAMP	5	01/15/24 2:45 PM
A0115025.d	N062287-001B-PS	PS	1	01/15/24 2:50 PM
A0115026.d	N062287-001B-MS	MS	1	01/15/24 2:54 PM
A0115027.d	N062287-001B-MSD	MSD	1	01/15/24 2:59 PM
A0115028.d	RINSE	ICAL	1	01/15/24 3:04 PM
A0115029.d	CCV1	CCV	1	01/15/24 3:08 PM
A0115030.d	CCB1	CCB	1	01/15/24 3:13 PM
A0115031.d	N062288-001B	SAMP	1	01/15/24 3:18 PM
A0115032.d	N062289-001B	SAMP	1	01/15/24 3:22 PM
A0115033.d	N062303-002A	SAMP	1	01/15/24 3:27 PM
A0115034.d	N062303-003A	SAMP	1	01/15/24 3:32 PM
A0115035.d	RINSE	ICAL	1	01/15/24 3:42 PM
A0115036.d	CCV2	CCV	1	01/15/24 3:46 PM
A0115037.d	CCB2	CCB	1	01/15/24 3:51 PM
A0115038.d	ICSA2	ICSA	1	01/15/24 3:56 PM
A0115039.d	ICSAB2	ICSAB	1	01/15/24 4:00 PM
A0115040.d	MB-106060	MBLK	1	01/15/24 4:05 PM
A0115041.d	LCS-106060	LCS	1	01/15/24 4:10 PM
A0115042.d	N062370-001A	SAMP	1	01/15/24 4:14 PM
A0115043.d	N062370-001A	SAMP	5	01/15/24 4:19 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115044.d	N062370-001A-PS	PS	1	01/15/24 4:24 PM
A0115045.d	N062370-001A-MS	MS	1	01/15/24 4:28 PM
A0115046.d	N062370-001A-MSD	MSD	1	01/15/24 4:33 PM
A0115047.d	CCV3	CCV	1	01/15/24 4:38 PM
A0115048.d	CCB3	CCB	1	01/15/24 4:42 PM
A0115049.d	MB-106052	MBLK	1	01/15/24 4:47 PM
A0115050.d	LCS-106052	LCS	1	01/15/24 4:52 PM
A0115051.d	N062372-001D	SAMP	1	01/15/24 4:56 PM
A0115052.d	N062372-001D	SAMP	5	01/15/24 5:01 PM
A0115053.d	N062372-001D-PS	PS	1	01/15/24 5:06 PM
A0115054.d	N062372-001D-MS	MS	1	01/15/24 5:10 PM
A0115055.d	N062372-001D-MSD	MSD	1	01/15/24 5:15 PM
A0115056.d	N062373-001D	SAMP	1	01/15/24 5:20 PM
A0115057.d	N062373-002D	SAMP	1	01/15/24 5:24 PM
A0115058.d	RINSE	ICAL	1	01/15/24 5:29 PM
A0115059.d	CCV4	CCV	1	01/15/24 5:34 PM
A0115060.d	CCB4	CCB	1	01/15/24 5:38 PM
A0115061.d	N062373-003D	SAMP	1	01/15/24 5:43 PM
A0115062.d	N062373-004D	SAMP	1	01/15/24 5:47 PM
A0115063.d	N062373-005D	SAMP	1	01/15/24 5:52 PM
A0115064.d	N062373-006D	SAMP	1	01/15/24 5:57 PM
A0115065.d	N062373-007D	SAMP	1	01/15/24 6:01 PM
A0115066.d	N062373-008D	SAMP	1	01/15/24 6:06 PM
A0115067.d	N062373-010D	SAMP	1	01/15/24 6:11 PM
A0115068.d	N062373-011D	SAMP	1	01/15/24 6:15 PM
A0115069.d	N062373-012D	SAMP	1	01/15/24 6:20 PM
A0115070.d	RINSE	ICAL	1	01/15/24 6:25 PM
A0115071.d	CCV5	CCV	1	01/15/24 6:29 PM
A0115072.d	CCB5	CCB	1	01/15/24 6:34 PM
A0115073.d	N062372-001D-MS	MS	1	01/15/24 6:47 PM
A0115074.d	N062373-001D	SAMP	100	01/15/24 6:52 PM
A0115075.d	N062373-002D	SAMP	100	01/15/24 6:56 PM
A0115076.d	N062373-011D	SAMP	100	01/15/24 7:01 PM
A0115077.d	N062373-012D	SAMP	100	01/15/24 7:06 PM
A0115078.d	N062372-001D-MS	MS	1	01/15/24 7:10 PM
A0115079.d	N062372-001D-MS	MS	1	01/15/24 7:19 PM
A0115080.d	N062372-001D-MS	MS	1	01/15/24 7:24 PM
A0115081.d	RINSE	ICAL	1	01/15/24 7:28 PM
A0115082.d	CCV6	CCV	1	01/15/24 7:33 PM
A0115083.d	CCB6	CCB	1	01/15/24 7:37 PM
A0115084.d	ICSA3	ICSA	1	01/15/24 7:42 PM
A0115085.d	ICSAB3	ICSAB	1	01/15/24 7:47 PM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115086.d	N062350-018D	SAMP	1	01/15/24 7:51 PM
A0115087.d	N062272-018C	SAMP	1	01/15/24 7:56 PM
A0115088.d	N062279-023D	SAMP	1	01/15/24 8:01 PM
A0115089.d	N062310-005B	SAMP	1	01/15/24 8:05 PM
A0115090.d	N062310-008D	SAMP	1	01/15/24 8:10 PM
A0115091.d	N062310-011B	SAMP	1	01/15/24 8:15 PM
A0115092.d	N062312-012C	SAMP	1	01/15/24 8:19 PM
A0115093.d	N062312-016C	SAMP	1	01/15/24 8:24 PM
A0115094.d	N062348-002C	SAMP	1	01/15/24 8:29 PM
A0115095.d	RINSE	ICAL	1	01/15/24 8:33 PM
A0115096.d	CCV7	CCV	1	01/15/24 8:38 PM
A0115097.d	CCB7	CCB	1	01/15/24 8:43 PM
A0115098.d	N062350-018D	SAMP	1	01/15/24 8:47 PM
A0115099.d	N062279-023D	SAMP	1	01/15/24 8:52 PM
A0115100.d	N062310-008D	SAMP	1	01/15/24 8:57 PM
A0115101.d	N062310-011B	SAMP	1	01/15/24 9:01 PM
A0115102.d	N062312-012C	SAMP	1	01/15/24 9:06 PM
A0115104.d	N062348-002C	SAMP	1	01/15/24 9:10 PM
A0115105.d	N062350-018D	SAMP	1	01/15/24 9:15 PM
A0115106.d	N062279-023D	SAMP	1	01/15/24 9:20 PM
A0115107.d	RINSE	ICAL	1	01/15/24 9:24 PM
A0115108.d	CCV8	CCV	1	01/15/24 9:29 PM
A0115109.d	CCB8	CCB	1	01/15/24 9:34 PM
A0115110.d	N062310-008D	SAMP	1	01/15/24 9:38 PM
A0115111.d	N062310-011B	SAMP	1	01/15/24 9:43 PM
A0115112.d	N062312-012C	SAMP	1	01/15/24 9:48 PM
A0115114.d	N062348-002C	SAMP	1	01/15/24 9:52 PM
A0115115.d	N062348-004C	SAMP	10	01/15/24 9:57 PM
A0115116.d	N062348-006B	SAMP	100	01/15/24 10:02 PM
A0115117.d	N062348-007B	SAMP	10	01/15/24 10:06 PM
A0115118.d	N062348-008B	SAMP	10	01/15/24 10:11 PM
A0115119.d	RINSE	ICAL	1	01/15/24 10:16 PM
A0115120.d	CCV9	CCV	1	01/15/24 10:20 PM
A0115121.d	CCB9	CCB	1	01/15/24 10:25 PM
A0115122.d	ICSA4	ICSA	1	01/15/24 10:30 PM
A0115123.d	ICSAB4	ICSAB	1	01/15/24 10:34 PM
A0115124.d	N062208-005A	SAMP	1	01/15/24 10:39 PM
A0115125.d	N062208-005B	SAMP	1	01/15/24 10:43 PM
A0115126.d	N062210-002A	SAMP	1	01/15/24 10:48 PM
A0115127.d	N062210-002B	SAMP	1	01/15/24 10:53 PM
A0115128.d	N062245-006A	SAMP	1	01/15/24 10:58 PM
A0115129.d	N062245-006D	SAMP	1	01/15/24 11:02 PM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115130.d	N062278-009A	SAMP	1	01/15/24 11:07 PM
A0115131.d	N062278-009D	SAMP	1	01/15/24 11:11 PM
A0115132.d	N062278-010A	SAMP	1	01/15/24 11:16 PM
A0115133.d	N062278-010D	SAMP	1	01/15/24 11:21 PM
A0115134.d	CCV10	CCV	1	01/15/24 11:25 PM
A0115135.d	CCB10	CCB	1	01/15/24 11:30 PM
A0115136.d	N062279-004A	SAMP	1	01/15/24 11:35 PM
A0115137.d	N062279-004D	SAMP	1	01/15/24 11:39 PM
A0115138.d	N062279-008A	SAMP	1	01/15/24 11:44 PM
A0115139.d	N062279-008D	SAMP	1	01/15/24 11:49 PM
A0115140.d	N062279-013A	SAMP	1	01/15/24 11:53 PM
A0115141.d	N062279-013B	SAMP	1	01/15/24 11:58 PM
A0115142.d	N062279-018A	SAMP	1	01/16/24 12:03 AM
A0115143.d	N062279-018B	SAMP	1	01/16/24 12:07 AM
A0115144.d	N062279-019A	SAMP	1	01/16/24 12:12 AM
A0115145.d	N062279-019B	SAMP	1	01/16/24 12:17 AM
A0115146.d	CCV11	CCV	1	01/16/24 12:21 AM
A0115147.d	CCB11	CCB	1	01/16/24 12:26 AM
A0115148.d	N062309-001A	SAMP	1	01/16/24 12:31 AM
A0115149.d	N062309-001B	SAMP	1	01/16/24 12:35 AM
A0115150.d	CCV12	CCV	1	01/16/24 12:40 AM
A0115151.d	CCB12	CCB	1	01/16/24 12:44 AM
A0115152.d	ICSA5	ICSA	1	01/16/24 12:49 AM
A0115153.d	ICSAB5	ICSAB	1	01/16/24 12:54 AM
A0115154.d	RINSE	ICAL	1	01/16/24 12:58 AM
A0115155.d	RINSE	ICAL	1	01/16/24 1:03 AM
A0115156.d	RINSE	ICAL	1	01/16/24 1:08 AM
A0115157.d	RINSE	ICAL	1	01/16/24 1:12 AM
A0115158.d	RINSE	ICAL	1	01/16/24 1:17 AM
A0115159.d	RINSE	ICAL	1	01/16/24 1:22 AM

INJECTION LOG: 240129A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0129001.d	RINSE	ICAL	1	01/29/24 1:26 PM
A0129002.d	RINSE	ICAL	1	01/29/24 1:31 PM
A0129003.d	Cal Blk	IBLK	1	01/29/24 1:36 PM
A0129004.d	Std1-0.1/1 ppb	ICAL	1	01/29/24 1:41 PM
A0129005.d	Std2-0.5/5 ppb	ICAL	1	01/29/24 1:45 PM
A0129006.d	Std3-5/50 ppb	ICAL	1	01/29/24 1:50 PM
A0129007.d	Std4-10/100 ppb	ICAL	1	01/29/24 1:55 PM
A0129008.d	Std5-4.0/20/200 ppb	ICAL	1	01/29/24 1:59 PM
A0129009.d	Std6-8.0/40/400 ppb	ICAL	1	01/29/24 2:04 PM
A0129010.d	Std7-100/1000 ppb	ICAL	1	01/29/24 2:09 PM
A0129011.d	Std8-200/2000 ppb	ICAL	1	01/29/24 2:14 PM
A0129012.d	ICV	ICV	1	01/29/24 2:24 PM
A0129013.d	ICB	ICB	1	01/29/24 2:29 PM
A0129014.d	LLICV1	LLICV	1	01/29/24 2:34 PM
A0129015.d	MLCCV	CCV	1	01/29/24 2:38 PM
A0129016.d	ICSA1	ICSA	1	01/29/24 2:43 PM
A0129017.d	ICSAB1	ICSAB	1	01/29/24 2:48 PM
A0129018.d	MB-106410	MBLK	1	01/29/24 2:53 PM
A0129019.d	LCS-106410	LCS	1	01/29/24 2:58 PM
A0129020.d	N062640-001A	SAMP	1	01/29/24 3:03 PM
A0129021.d	N062640-001A	SAMP	5	01/29/24 3:07 PM
A0129022.d	N062640-001A-PS	PS	1	01/29/24 3:12 PM
A0129023.d	N062640-001A-MS	MS	1	01/29/24 3:17 PM
A0129024.d	N062640-001A-MSD	MSD	1	01/29/24 3:21 PM
A0129025.d	RINSE	ICAL	1	01/29/24 3:26 PM
A0129026.d	CCV1	CCV	1	01/29/24 3:30 PM
A0129027.d	CCB1	CCB	1	01/29/24 3:35 PM
A0129028.d	MB-106384	MBLK	1	01/29/24 3:40 PM
A0129029.d	LCS-106384	LCS	1	01/29/24 3:44 PM
A0129030.d	N062657-001A	SAMP	1	01/29/24 3:49 PM
A0129031.d	N062657-004A	SAMP	1	01/29/24 3:54 PM
A0129032.d	N062657-004A	SAMP	5	01/29/24 3:58 PM
A0129033.d	N062657-004A-PS	PS	1	01/29/24 4:03 PM
A0129034.d	N062657-004A-MS	MS	1	01/29/24 4:08 PM
A0129035.d	N062657-004A-MSD	MSD	1	01/29/24 4:12 PM
A0129036.d	N062657-005A	SAMP	1	01/29/24 4:17 PM
A0129037.d	RINSE	ICAL	1	01/29/24 4:22 PM
A0129038.d	CCV2	CCV	1	01/29/24 4:26 PM
A0129039.d	CCB2	CCB	1	01/29/24 4:31 PM
A0129040.d	N062657-006A	SAMP	1	01/29/24 4:35 PM
A0129041.d	N062657-007A	SAMP	1	01/29/24 4:40 PM
A0129042.d	N062657-004A	SAMP	10	01/29/24 4:48 PM

INJECTION LOG: 240129A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0129043.d	N062657-004A	SAMP	50	01/29/24 4:53 PM
A0129044.d	N062657-004A-PS	PS	10	01/29/24 4:58 PM
A0129045.d	N062657-004A-MS	MS	10	01/29/24 5:02 PM
A0129046.d	N062657-004A-MSD	MSD	10	01/29/24 5:07 PM
A0129047.d	RINSE	ICAL	1	01/29/24 5:12 PM
A0129048.d	CCV3	CCV	1	01/29/24 5:16 PM
A0129049.d	CCB3	CCB	1	01/29/24 5:21 PM
A0129050.d	ICSA2	ICSA	1	01/29/24 5:26 PM
A0129051.d	ICSAB2	ICSAB	1	01/29/24 5:30 PM
A0129052.d	MB-106380	MBLK	1	01/29/24 5:35 PM
A0129053.d	LCS-106380	LCS	1	01/29/24 5:40 PM
A0129054.d	N062654-005A	SAMP	1	01/29/24 5:44 PM
A0129055.d	N062654-005A	SAMP	5	01/29/24 5:49 PM
A0129056.d	N062654-005A-PS	PS	1	01/29/24 5:54 PM
A0129057.d	N062654-005A-MS	MS	1	01/29/24 5:58 PM
A0129058.d	N062654-005A-MSD	MSD	1	01/29/24 6:03 PM
A0129059.d	N062654-010A	SAMP	1	01/29/24 6:07 PM
A0129060.d	N062654-015A	SAMP	1	01/29/24 6:12 PM
A0129061.d	RINSE	ICAL	1	01/29/24 6:17 PM
A0129062.d	CCV4	CCV	1	01/29/24 6:21 PM
A0129063.d	CCB4	CCB	1	01/29/24 6:26 PM
A0129064.d	N062654-020A	SAMP	1	01/29/24 6:31 PM
A0129065.d	N062654-025A	SAMP	1	01/29/24 6:35 PM
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A0129067.d	N062654-035A	SAMP	1	01/29/24 6:45 PM
A0129068.d	N062654-040A	SAMP	1	01/29/24 6:49 PM
A0129069.d	N062654-045A	SAMP	1	01/29/24 6:54 PM
A0129070.d	N062654-050A	SAMP	1	01/29/24 6:59 PM
A0129071.d	N062654-055A	SAMP	1	01/29/24 7:03 PM
A0129072.d	N062654-060A	SAMP	1	01/29/24 7:08 PM
A0129073.d	RINSE	ICAL	1	01/29/24 7:13 PM
A0129074.d	CCV5	CCV	1	01/29/24 7:17 PM
A0129075.d	CCB5	CCB	1	01/29/24 7:22 PM
A0129076.d	N062654-065A	SAMP	1	01/29/24 7:27 PM
A0129077.d	N062654-070A	SAMP	1	01/29/24 7:31 PM
A0129078.d	N062654-075A	SAMP	1	01/29/24 7:36 PM
A0129079.d	N062654-080A	SAMP	1	01/29/24 7:40 PM
A0129080.d	RINSE	ICAL	1	01/29/24 7:45 PM
A0129081.d	CCV6	CCV	1	01/29/24 7:50 PM
A0129082.d	CCB6	CCB	1	01/29/24 7:54 PM
A0129083.d	ICSA3	ICSA	1	01/29/24 7:59 PM
A0129084.d	ICSAB3	ICSAB	1	01/29/24 8:04 PM

INJECTION LOG: 240129A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0129085.d	MB-105955	MBLK	1	01/29/24 8:08 PM
A0129086.d	LCS-105955	LCS	1	01/29/24 8:13 PM
A0129087.d	N062272-001C	SAMP	1	01/29/24 8:18 PM
A0129088.d	N062272-002C	SAMP	1	01/29/24 8:22 PM
A0129089.d	N062272-003C	SAMP	1	01/29/24 8:27 PM
A0129090.d	N062272-004C	SAMP	1	01/29/24 8:32 PM
A0129091.d	N062272-004C	SAMP	5	01/29/24 8:36 PM
A0129092.d	N062272-004C-PS	PS	1	01/29/24 8:41 PM
A0129093.d	N062272-004C-MS	MS	1	01/29/24 8:46 PM
A0129094.d	N062272-004C-MSD	MSD	1	01/29/24 8:50 PM
A0129095.d	CCV7	CCV	1	01/29/24 8:55 PM
A0129096.d	CCB7	CCB	1	01/29/24 9:00 PM
A0129097.d	ICSA4	ICSA	1	01/29/24 9:04 PM
A0129098.d	ICSAB4	ICSAB	1	01/29/24 9:09 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/10/2024 12:01:13 PM

Prep End Date: 1/10/2024 4:30:00 PM

Prep Batch 105955 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 2/14/2024

Initials/ Date: for _____

Technician: Diane Jetajobe

Page: 1 of 2

Prep Factor Units mL / mL Temp. (°C): 95 Location: DB-01-6

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105955	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105955	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062272-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-004C-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/10/2024 12:01:13 PM

Prep End Date: 1/10/2024 4:30:00 PM

Prep Batch 105955 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 2/14/2024

Initials/ Date: for _____

Technician: Diane Jetajobe

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): 95 Location: DB-01-6

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062272-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-019C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062272-020C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

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500

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240109A.b
Acq. Date-Time 2024-01-10 14:44:32
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

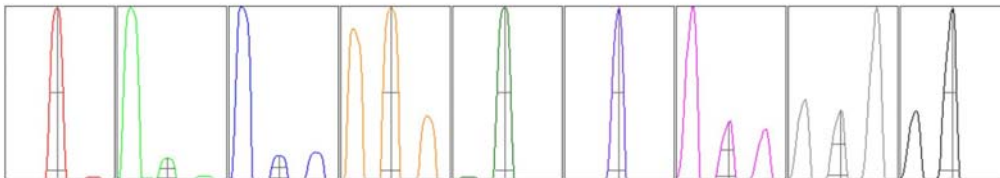
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7835	78351.98	500.00		2.421	5.000
24	10.00	22832	228321.85	500.00		1.897	5.000
25	10.00	3021	30214.09	500.00		2.365	5.000
26	10.00	3476	34760.54	500.00		2.032	5.000
59	10.00	31626	316255.39	500.00		1.722	5.000
115	10.00	36288	362875.79	500.00		1.996	5.000
206	10.00	6812	68123.84	500.00		2.273	5.000
207	10.00	5688	56877.47	500.00		2.644	5.000
208	10.00	14112	141124.17	500.00		2.266	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.424 %
Doubly Charged 70 / 140 1.095 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8141.37	8.95	8.90 - 9.10	
24	24008.88	23.90	23.90 - 24.10	
25	3204.12	24.90	24.90 - 25.10	
26	3664.31	25.90	25.90 - 26.10	
59	32348.62	58.95	58.90 - 59.10	
115	36959.15	115.00	114.90 - 115.10	
206	6925.59	205.95	205.90 - 206.10	
207	6097.17	206.95	206.90 - 207.10	
208	15227.39	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.526	0.900	
24	0.41	0.512	0.900	
25	0.41	0.495	0.900	
26	0.43	0.538	0.900	
59	0.39	0.532	0.900	
115	0.34	0.483	0.900	
206	0.36	0.541	0.900	
207	0.36	0.550	0.900	
208	0.35	0.559	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2483 V Pulse HV 1557 V

[H2]

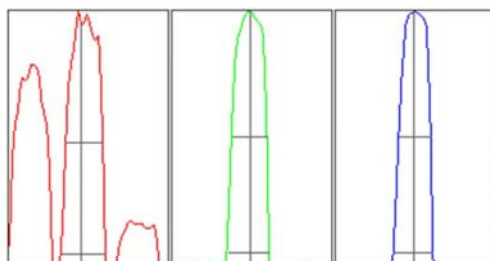
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		202	2020.72			6.618	
59		3575	35752.98			3.108	
115		32013	320128.10			1.914	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.317 %
 Doubly Charged 70 / 140 0.382 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	202.77	25.90	25.90 - 26.10	
59	3671.43	59.00	58.90 - 59.10	
115	32801.16	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.67	0.790	0.900	
115	0.61	0.740	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2483 V	Pulse HV	1557 V
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[He]

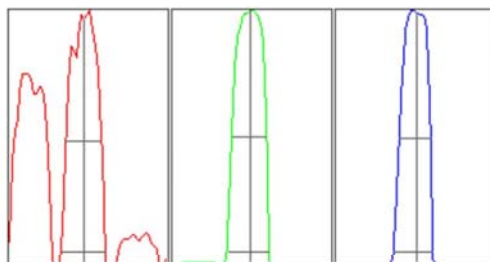
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		86	856.62			9.359	
59		6446	64460.79			2.073	
115		5966	59663.74			2.096	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.130 %
Doubly Charged	70 / 140 1.300 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	87.25	25.95	25.90 - 26.10	
59	6360.59	59.00	58.90 - 59.10	
115	6009.75	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.828	0.900	
59	0.66	0.789	0.900	
115	0.60	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2483 V	Pulse HV	1557 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240110A1.b
Acq. Date-Time 2024-01-11 13:00:05
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

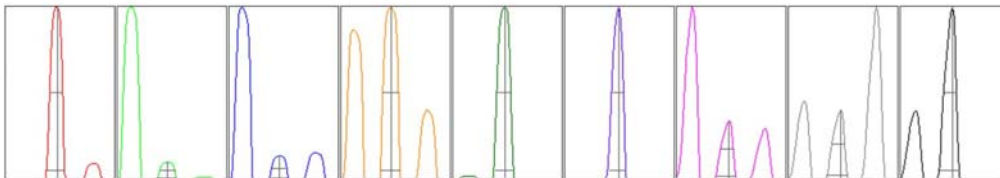
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	11260	112597.50	500.00		2.261	5.000
24	10.00	33485	334845.74	500.00		2.232	5.000
25	10.00	4451	44507.11	500.00		2.971	5.000
26	10.00	5071	50710.20	500.00		2.373	5.000
59	10.00	44551	445507.83	500.00		2.423	5.000
115	10.00	52369	523690.63	500.00		2.194	5.000
206	10.00	8641	86409.97	500.00		2.280	5.000
207	10.00	7351	73508.19	500.00		2.434	5.000
208	10.00	17964	179641.43	500.00		2.401	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.846 %
Doubly Charged 70 / 140 1.068 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11548.55	8.95	8.90 - 9.10	
24	34858.90	23.90	23.90 - 24.10	
25	4539.92	24.90	24.90 - 25.10	
26	5221.65	25.90	25.90 - 26.10	
59	44582.56	58.95	58.90 - 59.10	
115	52921.91	115.00	114.90 - 115.10	
206	8842.02	205.95	205.90 - 206.10	
207	7730.80	206.95	206.90 - 207.10	
208	19415.89	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.523	0.900	
25	0.41	0.497	0.900	
26	0.43	0.539	0.900	
59	0.39	0.534	0.900	
115	0.34	0.488	0.900	
206	0.36	0.547	0.900	
207	0.36	0.570	0.900	
208	0.36	0.565	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2489 V Pulse HV 1556 V

[H2]

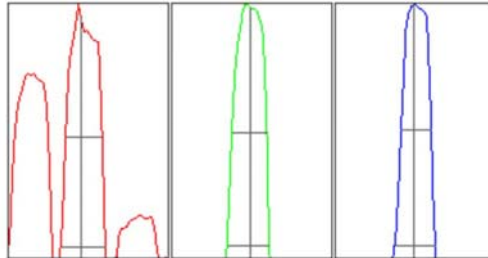
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		295	2950.86			6.274	
59		3519	35189.79			3.486	
115		45963	459634.94			2.276	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.661 %
 Doubly Charged 70 / 140 0.387 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	312.04	25.90	25.90 - 26.10	
59	3640.11	59.00	58.90 - 59.10	
115	47264.94	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.830	0.900	
59	0.66	0.786	0.900	
115	0.58	0.761	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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[He]

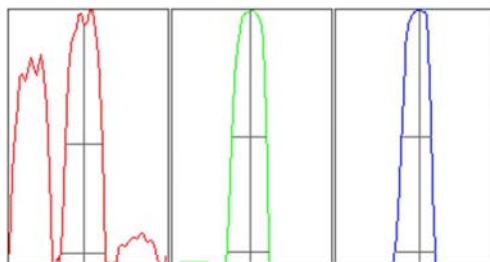
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		123	1226.24			9.347	
59		9311	93114.79			2.383	
115		9087	90868.91			2.840	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.295 %
Doubly Charged	70 / 140 1.165 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	117.26	25.95	25.90 - 26.10	
59	9307.29	59.00	58.90 - 59.10	
115	9150.72	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.66	0.785	0.900	
115	0.57	0.756	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240114A2.b
Acq. Date-Time 2024-01-15 12:44:25
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

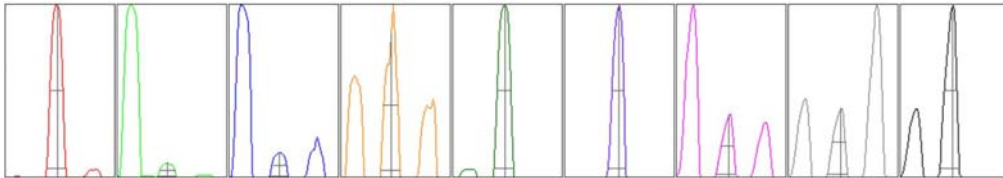
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2919	29188.20	500.00		3.105	5.000
24	10.00	10199	101992.84	500.00		3.455	5.000
25	10.00	1366	13657.26	500.00		4.483	5.000
26	10.00	1597	15970.28	500.00		4.562	5.000
59	10.00	14099	140994.60	500.00		2.991	5.000
115	10.00	17112	171121.08	500.00		2.511	5.000
206	10.00	3470	34701.42	500.00		2.209	5.000
207	10.00	2875	28745.04	500.00		3.362	5.000
208	10.00	7125	71253.22	500.00		2.488	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.878 %
Doubly Charged 70 / 140 0.971 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2948.84	8.95	8.90 - 9.10	
24	10180.30	23.90	23.90 - 24.10	
25	1406.37	24.90	24.90 - 25.10	
26	1975.81	25.90	25.90 - 26.10	
59	13823.55	58.95	58.90 - 59.10	
115	16716.32	115.00	114.90 - 115.10	
206	3253.91	205.95	205.90 - 206.10	
207	2889.90	206.95	206.90 - 207.10	
208	7273.69	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.36	0.524	0.900	
24	0.41	0.501	0.900	
25	0.40	0.493	0.900	
26	0.40	0.532	0.900	
59	0.38	0.532	0.900	
115	0.34	0.481	0.900	
206	0.36	0.538	0.900	
207	0.36	0.551	0.900	
208	0.35	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2509 V Pulse HV 1570 V

[H2]

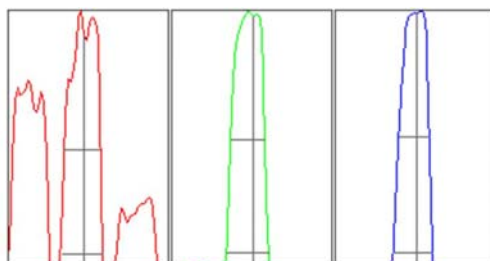
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		80	798.82			10.980	
59		1000	9999.21			3.710	
115		13133	131325.83			2.094	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.666 %
 Doubly Charged 70 / 140 0.321 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	85.00	25.95	25.90 - 26.10	
59	1018.09	59.05	58.90 - 59.10	
115	13405.31	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.789	0.900	
59	0.65	0.784	0.900	
115	0.58	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2509 V	Pulse HV	1570 V
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[He]

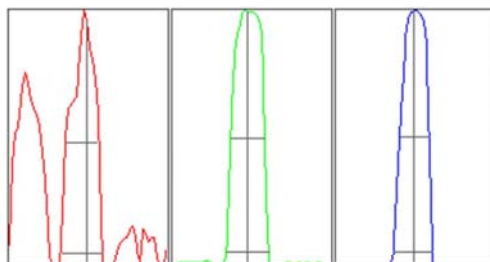
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		36	364.80			16.309	
59		2896	28959.58			2.736	
115		2432	24320.53			3.200	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.250 %
Doubly Charged	70 / 140 1.098 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	47.75	26.00	25.90 - 26.10	
59	2879.84	58.95	58.90 - 59.10	
115	2494.03	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.63	0.782	0.900	
59	0.64	0.785	0.900	
115	0.56	0.735	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2509 V	Pulse HV	1570 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240126A.b
Acq. Date-Time 2024-01-29 13:14:07
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

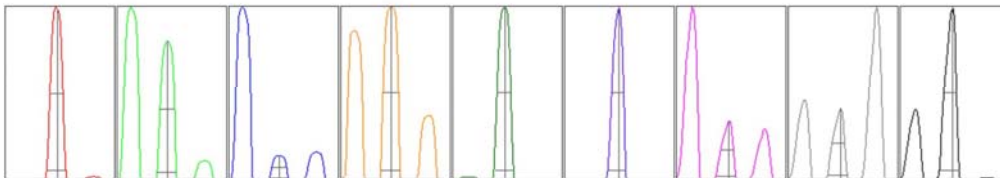
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9142	91417.17	500.00		1.823	5.000
24	10.00	25342	253424.55	500.00		3.092	5.000
25	10.00	3421	34209.43	500.00		3.334	5.000
26	10.00	3984	39843.64	500.00		2.676	5.000
59	10.00	40392	403921.66	500.00		2.263	5.000
115	10.00	47827	478274.54	500.00		1.986	5.000
206	10.00	8787	87867.27	500.00		2.650	5.000
207	10.00	7341	73413.51	500.00		2.259	5.000
208	10.00	18106	181061.12	500.00		2.178	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.594 %
Doubly Charged 70 / 140 1.103 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9156.30	8.95	8.90 - 9.10	
24	25974.33	23.90	23.90 - 24.10	
25	3417.78	24.90	24.90 - 25.10	
26	3940.68	25.90	25.90 - 26.10	
59	39620.79	58.95	58.90 - 59.10	
115	46266.46	115.00	114.90 - 115.10	
206	8816.81	205.95	205.90 - 206.10	
207	7762.29	206.95	206.90 - 207.10	
208	19070.15	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.36	0.523	0.900	
24	0.41	0.531	0.900	
25	0.41	0.495	0.900	
26	0.43	0.537	0.900	
59	0.38	0.532	0.900	
115	0.34	0.485	0.900	
206	0.36	0.544	0.900	
207	0.35	0.559	0.900	
208	0.35	0.562	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2515 V Pulse HV 1583 V

[H2]

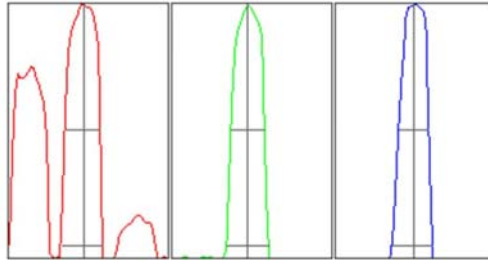
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		217	2171.14			7.126	
59		4115	41152.84			3.028	
115		38088	380878.57			2.129	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.514 %
 Doubly Charged 70 / 140 0.354 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	244.78	25.95	25.90 - 26.10	
59	4372.13	58.95	58.90 - 59.10	
115	39681.98	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.787	0.900	
59	0.64	0.784	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2515 V	Pulse HV	1583 V
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[He]

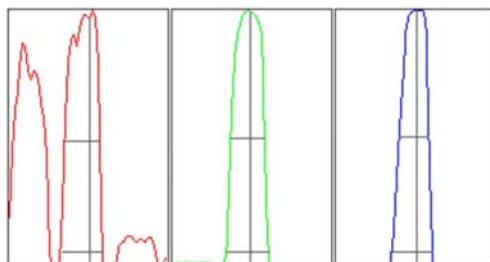
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		97	974.63			10.184	
59		8224	82235.65			1.720	
115		7374	73743.01			2.067	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.193 %
Doubly Charged	70 / 140 1.331 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	101.76	26.05	25.90 - 26.10	
59	8207.21	59.00	58.90 - 59.10	
115	7426.01	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.785	0.900	
59	0.64	0.784	0.900	
115	0.57	0.762	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2515 V	Pulse HV	1583 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240110A

Instrument ID: ICPMS-03

Analyte	Data File	A0110003.d	A0110004.d	A0110005.d	A0110006.d	A0110007.d	A0110008.d	A0110009.d	A0110010.d	A0110011.d	
	Acq. Date-Time	01/10/2024 04:33 PM	01/10/2024 04:37 PM	01/10/2024 04:42 PM	01/10/2024 04:47 PM	01/10/2024 04:52 PM	01/10/2024 04:57 PM	01/10/2024 05:01 PM	01/10/2024 05:06 PM	01/10/2024 05:11 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	37633.4		37141.2	37617.8	37787.1	39642.5	39526.6	39222.6	38465.3	
55 Mn [2]	CPS	200		693.1	6688.8	13798.7	29021.5	58534.8	144038.7	290130.2	0.9999
72 Ge (ISTD) [2]	CPS	21536.4	21312.8	20926.7	20925.6	21074.7	22625.7	22335.3	22240.7	21783.4	
75 As [2]	CPS	5.5	31.1	132.2	1462.2	2979.1	6444.4	13037.1	32059.6	63806.9	1.0000
159 Tb (ISTD) [3]	CPS	1557858.2		1542367	1559216.9	1548801.3	1640003.7	1682559.7	1669469.1	1621382.1	
137 Ba [3]	CPS	30		1406.8	15130.9	29454.7	63368.8	132526.5	329461.6	649157.1	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240111A

Instrument ID: ICPMS-03

Analyte	Data File	A0111003.d	A0111004.d	A0111005.d	A0111006.d	A0111007.d	A0111008.d	A0111009.d	A0111010.d	A0111011.d	
	Acq. Date-Time	01/11/2024 01:17 PM	01/11/2024 01:21 PM	01/11/2024 01:26 PM	01/11/2024 01:31 PM	01/11/2024 01:36 PM	01/11/2024 01:40 PM	01/11/2024 01:45 PM	01/11/2024 01:50 PM	01/11/2024 01:55 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	54104.9		52994.9	53388.3	53436.1	52906.7	53081.8	53161	52955.8	
55 Mn [2]	CPS	147.8		977.4	9596.8	18791.4	37386.4	76425.6	193013.3	390143.5	1.0000
72 Ge (ISTD) [2]	CPS	31649.5	31926.6	31629.4	31622.7	31857.6	31194.2	31915.5	31804.2	31541.4	
75 As [2]	CPS	6.6	45.5	208.8	2197.8	4507.2	8901	18160.8	46038.1	94109.6	0.9999
159 Tb (ISTD) [3]	CPS	2182441.4		2212831	2214052.9	2226157.9	2180934.3	2252531.1	2260097.9	2282692.2	
137 Ba [3]	CPS	56.7		2126.8	22479.8	44915	89617.6	185991.6	473961.6	956027.5	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240115A

Instrument ID: ICPMS-03

Analyte	Data File	A0115003.d	A0115004.d	A0115005.d	A0115006.d	A0115007.d	A0115008.d	A0115009.d	A0115010.d	A0115011.d	
	Acq. Date-Time	01/15/2024 01:09 PM	01/15/2024 01:14 PM	01/15/2024 01:18 PM	01/15/2024 01:23 PM	01/15/2024 01:28 PM	01/15/2024 01:33 PM	01/15/2024 01:37 PM	01/15/2024 01:42 PM	01/15/2024 01:47 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
72 Ge (ISTD) [2]	CPS	32819.5	34390.5	33495.4	33781.5	33497.6	33152.4	34086.6	33228.1	33794.9	
75 As [2]	CPS	5.5	57.7	222.2	2296.7	4896.2	9315.7	19437.8	48203.1	99255.3	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240129A

Instrument ID: ICPMS-03

Analyte	Data File	A0129003.d	A0129004.d	A0129005.d	A0129006.d	A0129007.d	A0129008.d	A0129009.d	A0129010.d	A0129011.d	
	Acq. Date-Time	01/29/2024 01:36 PM	01/29/2024 01:41 PM	01/29/2024 01:45 PM	01/29/2024 01:50 PM	01/29/2024 01:55 PM	01/29/2024 01:59 PM	01/29/2024 02:04 PM	01/29/2024 02:09 PM	01/29/2024 02:14 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
72 Ge (ISTD) [2]	CPS	29114.8	29065.8	28561.6	28216.5	28743.1	28538.2	28962.3	28747.4	28812	
75 As [2]	CPS	5.5	41.1	176.6	2010	4080.4	8241.9	16901.7	41877	86389.8	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

526

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616086							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.703	0.10	10.00	0	97.0	90	110				
Barium	9.980	1.0	10.00	0	99.8	90	110				
Manganese	98.858	0.50	100.0	0	98.9	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ZZZZZ	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616088							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.107	0.10	0.1000	0	107	80	120				
Barium	1.106	1.0	1.000	0	111	80	120				
Manganese	0.432	0.50	0.5000	0	86.4	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616089							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.333	0.10	20.00	0	96.7	90	110				
Barium	19.364	1.0	20.00	0	96.8	90	110				
Manganese	19.246	0.50	20.00	0	96.2	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/10/2024	SeqNo: 5616104							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.602	0.10	20.00	0	98.0	90	110				
Barium	19.387	1.0	20.00	0	96.9	90	110				
Manganese	19.270	0.50	20.00	0	96.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.839	0.10	20.00	0	94.2	90	110				
Barium	19.799	1.0	20.00	0	99.0	90	110				
Manganese	18.630	0.50	20.00	0	93.1	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.013	0.10	20.00	0	95.1	90	110				
Barium	20.368	1.0	20.00	0	102	90	110				
Manganese	18.838	0.50	20.00	0	94.2	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.004	0.10	20.00	0	95.0	90	110				
Barium	20.156	1.0	20.00	0	101	90	110				
Manganese	18.929	0.50	20.00	0	94.6	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.576	0.10	20.00	0	92.9	90	110				
Barium	20.307	1.0	20.00	0	102	90	110				
Manganese	19.134	0.50	20.00	0	95.7	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/10/2024		SeqNo: 5616159			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.332	0.10	20.00	0	91.7	90	110				
Barium	20.235	1.0	20.00	0	101	90	110				
Manganese	18.921	0.50	20.00	0	94.6	90	110				

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616172			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.556	0.10	20.00	0	92.8	90	110				
Barium	20.888	1.0	20.00	0	104	90	110				
Manganese	18.580	0.50	20.00	0	92.9	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616183			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.004	0.10	20.00	0	95.0	90	110				
Barium	20.267	1.0	20.00	0	101	90	110				
Manganese	18.388	0.50	20.00	0	91.9	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616191			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.283	0.10	20.00	0	96.4	90	110				
Barium	19.961	1.0	20.00	0	99.8	90	110				
Manganese	18.626	0.50	20.00	0	93.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616204			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.320	0.10	20.00	0	91.6	90	110				
Barium	19.997	1.0	20.00	0	100	90	110				
Manganese	18.820	0.50	20.00	0	94.1	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616215			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.565	0.10	20.00	0	92.8	90	110				
Barium	19.829	1.0	20.00	0	99.1	90	110				
Manganese	18.840	0.50	20.00	0	94.2	90	110				

Sample ID: CCV12		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616225			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.931	0.10	20.00	0	89.7	90	110				S
Barium	20.489	1.0	20.00	0	102	90	110				
Manganese	18.909	0.50	20.00	0	94.5	90	110				

Sample ID: CCV13		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180280			
Client ID: CCV		Batch ID: R180280		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5616238			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.383	0.10	20.00	0	91.9	90	110				
Barium	20.100	1.0	20.00	0	100	90	110				
Manganese	18.791	0.50	20.00	0	94.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616249							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.588	0.10	20.00	0	92.9	90	110				
Barium	20.219	1.0	20.00	0	101	90	110				
Manganese	18.448	0.50	20.00	0	92.2	90	110				

Sample ID: CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616258							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.298	0.10	20.00	0	91.5	90	110				
Barium	20.247	1.0	20.00	0	101	90	110				
Manganese	18.679	0.50	20.00	0	93.4	90	110				

Sample ID: CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCV	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616269							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.658	0.10	20.00	0	93.3	90	110				
Barium	20.279	1.0	20.00	0	101	90	110				
Manganese	18.905	0.50	20.00	0	94.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.111	0.10	10.00	0	101	90	110				
Barium	10.055	1.0	10.00	0	101	90	110				
Manganese	100.729	0.50	100.0	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617246						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	1.035	1.0	1.000	0	104	80	120				
Manganese	0.506	0.50	0.5000	0	101	80	120				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617247						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.112	0.10	0.1000	0	112	80	120				
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Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617248						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.282	0.10	20.00	0	96.4	90	110				
Barium	19.219	1.0	20.00	0	96.1	90	110				
Manganese	19.409	0.50	20.00	0	97.0	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617260			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.090	0.10	20.00	0	95.4	90	110				
Barium	19.433	1.0	20.00	0	97.2	90	110				
Manganese	19.486	0.50	20.00	0	97.4	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617272			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.112	1.0	20.00	0	95.6	90	110				
Manganese	19.257	0.50	20.00	0	96.3	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617281			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.949	0.10	20.00	0	94.7	90	110				
Barium	19.180	1.0	20.00	0	95.9	90	110				
Manganese	19.329	0.50	20.00	0	96.6	90	110				

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617295			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.195	0.10	20.00	0	96.0	90	110				
Barium	19.301	1.0	20.00	0	96.5	90	110				
Manganese	19.353	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617307			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.198	0.10	20.00	0	96.0	90	110				
Barium	19.141	1.0	20.00	0	95.7	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617318			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.891	0.10	20.00	0	94.5	90	110				
Barium	19.516	1.0	20.00	0	97.6	90	110				
Manganese	19.847	0.50	20.00	0	99.2	90	110				

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619413			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.783	0.10	20.00	0	93.9	90	110				
Barium	19.599	1.0	20.00	0	98.0	90	110				
Manganese	19.546	0.50	20.00	0	97.7	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619424			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.315	0.10	20.00	0	96.6	90	110				
Barium	19.697	1.0	20.00	0	98.5	90	110				
Manganese	19.697	0.50	20.00	0	98.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619435			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.760	0.10	20.00	0	93.8	90	110				
Barium	19.809	1.0	20.00	0	99.0	90	110				
Manganese	19.675	0.50	20.00	0	98.4	90	110				

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619448			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.937	0.10	20.00	0	94.7	90	110				
Barium	19.483	1.0	20.00	0	97.4	90	110				
Manganese	19.699	0.50	20.00	0	98.5	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619459			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.943	0.10	20.00	0	94.7	90	110				
Barium	19.794	1.0	20.00	0	99.0	90	110				
Manganese	20.012	0.50	20.00	0	100	90	110				

Sample ID: CCV12		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619470			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.828	0.10	20.00	0	94.1	90	110				
Barium	19.749	1.0	20.00	0	98.7	90	110				
Manganese	19.896	0.50	20.00	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV13		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619483			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.384	1.0	20.00	0	96.9	90	110				
Manganese	19.993	0.50	20.00	0	100	90	110				

Sample ID: CCV14		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619494			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.003	0.10	20.00	0	95.0	90	110				
Barium	19.503	1.0	20.00	0	97.5	90	110				
Manganese	19.664	0.50	20.00	0	98.3	90	110				

Sample ID: CCV15		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619505			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.672	0.10	20.00	0	93.4	90	110				
Barium	19.255	1.0	20.00	0	96.3	90	110				
Manganese	19.976	0.50	20.00	0	99.9	90	110				

Sample ID: CCV16		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619516			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.806	0.10	20.00	0	94.0	90	110				
Barium	19.377	1.0	20.00	0	96.9	90	110				
Manganese	20.020	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062272
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: ICV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.430	0.10	10.00	0	104	90	110				
Manganese	100.235	0.50	100.0	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: ZZZZZZ	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629050							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.112	0.10	0.1000	0	112	80	120				
Manganese	0.596	0.50	0.5000	0	119	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629051							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.527	0.10	20.00	0	97.6	90	110				
Manganese	19.671	0.50	20.00	0	98.4	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629063							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.378	0.10	20.00	0	96.9	90	110				
Manganese	19.625	0.50	20.00	0	98.1	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.738	0.10	20.00	0	98.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.563	0.50	20.00	0	97.8	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.580	0.10	20.00	0	97.9	90	110				
Manganese	19.754	0.50	20.00	0	98.8	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.627	0.10	20.00	0	98.1	90	110				
Manganese	19.896	0.50	20.00	0	99.5	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.214	0.10	20.00	0	96.1	90	110				
Manganese	20.136	0.50	20.00	0	101	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.692	0.10	20.00	0	98.5	90	110				
Manganese	20.046	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629125							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.252	0.10	20.00	0	96.3	90	110				
Manganese	19.430	0.50	20.00	0	97.2	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629135							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.943	0.10	20.00	0	94.7	90	110				
Manganese	19.572	0.50	20.00	0	97.9	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629145							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.804	0.10	20.00	0	94.0	90	110				
Manganese	19.555	0.50	20.00	0	97.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: ICV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655316	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	10.490	0.10	10.00	0	105 90 110

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: ZZZZZ	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655318	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	0.089	0.10	0.1000	0	89.2 80 120

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655319	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.925	0.10	20.00	0	99.6 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655329	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.274	0.10	20.00	0	96.4 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655340	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	18.963	0.10	20.00	0	94.8 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655349	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.521	0.10	20.00	0	97.6 90 110

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655362	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.682	0.10	20.00	0	98.4 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655373	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.051	0.10	20.00	0	95.3 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655379	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.291	0.10	20.00	0	96.5 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCV	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655393	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	18.899	0.10	20.00	0	94.5 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 562.219.7435 F: 562.219.7436

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616115						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616184	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616192	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616205	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5616216	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616226						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: CCB	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617282						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619414						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619425			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB9		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619436			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB10		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619449			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB11		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619460			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619471			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB13		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619484			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.032	0.50									

Sample ID: CCB14		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619495			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.028	0.50									

Sample ID: CCB15		SampType: CCB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCB		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619506			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: ICB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629136						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP Units: µg/L	Prep Date:	RunNo: 180905							
Client ID: ICB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655317							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP Units: µg/L	Prep Date:	RunNo: 180905							
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655330							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP Units: µg/L	Prep Date:	RunNo: 180905							
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655341							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP Units: µg/L	Prep Date:	RunNo: 180905							
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655350							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP Units: µg/L	Prep Date:	RunNo: 180905							
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655363							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655374	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655380	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905
Client ID: CCB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655394	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.116	0.10	20.00	0	101	80	120				
Barium	20.192	1.0	20.00	0	101	80	120				
Manganese	20.363	0.50	20.00	0	102	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.470	0.10	20.00	0	97.4	80	120				
Barium	20.884	1.0	20.00	0	104	80	120				
Manganese	19.919	0.50	20.00	0	99.6	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/10/2024	SeqNo: 5616162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.927	0.10	20.00	0	94.6	80	120				
Barium	20.774	1.0	20.00	0	104	80	120				
Manganese	19.251	0.50	20.00	0	96.3	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.742	0.10	20.00	0	98.7	80	120				
Barium	20.952	1.0	20.00	0	105	80	120				
Manganese	19.608	0.50	20.00	0	98.0	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616227						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616228						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.517	0.10	20.00	0	97.6	80	120				
Barium	21.236	1.0	20.00	0	106	80	120				
Manganese	19.765	0.50	20.00	0	98.8	80	120				

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ICSA	Batch ID: R180280	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5616272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.717	0.10	20.00	0	98.6	80	120				
Barium	21.223	1.0	20.00	0	106	80	120				
Manganese	19.335	0.50	20.00	0	96.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA B	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.356	0.10	20.00	0	102	80	120				
Barium	20.242	1.0	20.00	0	101	80	120				
Manganese	20.292	0.50	20.00	0	101	80	120				

Sample ID: ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617283						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA B	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.191	0.10	20.00	0	101	80	120				
Barium	19.985	1.0	20.00	0	99.9	80	120				
Manganese	20.045	0.50	20.00	0	100	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.612	0.10	20.00	0	98.1	80	120				
Barium	20.248	1.0	20.00	0	101	80	120				
Manganese	20.509	0.50	20.00	0	103	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619437						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619438						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.641	0.10	20.00	0	98.2	80	120				
Barium	20.304	1.0	20.00	0	102	80	120				
Manganese	20.433	0.50	20.00	0	102	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.119	0.10	20.00	0	101	80	120			
Barium	20.077	1.0	20.00	0	100	80	120			
Manganese	20.777	0.50	20.00	0	104	80	120			

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619518						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.787	0.10	20.00	0	98.9	80	120			
Barium	19.885	1.0	20.00	0	99.4	80	120			
Manganese	20.945	0.50	20.00	0	105	80	120			

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629052	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA B	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629053	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	20.140	0.10	20.00	0	101 80 120
Manganese	20.239	0.50	20.00	0	101 80 120

Sample ID: ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629071	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA B	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629072	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	20.174	0.10	20.00	0	101 80 120
Manganese	20.210	0.50	20.00	0	101 80 120

Sample ID: ICSA 3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629115	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.943	0.10	20.00	0	99.7 80 120
Manganese	20.457	0.50	20.00	0	102 80 120

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629147	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629148	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.761	0.10	20.00	0	98.8 80 120
Manganese	20.268	0.50	20.00	0	101 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020		Analysis Date: 1/29/2024	SeqNo: 5655320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020		Analysis Date: 1/29/2024	SeqNo: 5655321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 20.887 0.10 20.00 0 104 80 120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020		Analysis Date: 1/29/2024	SeqNo: 5655351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020		Analysis Date: 1/29/2024	SeqNo: 5655352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 20.334 0.10 20.00 0 102 80 120

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020		Analysis Date: 1/29/2024	SeqNo: 5655381						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSAB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655382							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.609	0.10	20.00	0	103	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSA	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655395							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ICSAB	Batch ID: R180905	TestNo: EPA 6020	Analysis Date: 1/29/2024	SeqNo: 5655396							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.055	0.10	20.00	0	100	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

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INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1557858.2	1557858.2	100	PASS	30-150	37633.4	37633.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1564808.5	1557858.2	100.45	PASS	30-150	37629	37633.4	99.99	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1542367	1557858.2	99.01	PASS	30-150	37141.2	37633.4	98.69	PASS	30-150
Std3-5/50 ppb	ICAL	1	1559216.9	1557858.2	100.09	PASS	30-150	37617.8	37633.4	99.96	PASS	30-150
Std4-10/100 ppb	ICAL	1	1548801.3	1557858.2	99.42	PASS	30-150	37787.1	37633.4	100.41	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1640003.7	1557858.2	105.27	PASS	30-150	39642.5	37633.4	105.34	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1682559.7	1557858.2	108	PASS	30-150	39526.6	37633.4	105.03	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1669469.1	1557858.2	107.16	PASS	30-150	39222.6	37633.4	104.22	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1621382.1	1557858.2	104.08	PASS	30-150	38465.3	37633.4	102.21	PASS	30-150
ICV	ICV	1	1577802.6	1557858.2	101.28	PASS	30-150	37493.1	37633.4	99.63	PASS	30-150
ICV	ICV	1	1564885.7	1557858.2	100.45	PASS	30-150	37647.9	37633.4	100.04	PASS	30-150
ICB	ICB	1	1570717.5	1557858.2	100.83	PASS	30-150	37468.6	37633.4	99.56	PASS	30-150
LLICV1	LLICV	1	1567280.2	1557858.2	100.6	PASS	30-150	37683.5	37633.4	100.13	PASS	30-150
MLCCV	CCV	1	1569437.4	1557858.2	100.74	PASS	30-150	37690.2	37633.4	100.15	PASS	30-150
ICSA1	ICSA	1	1549201.5	1557858.2	99.44	PASS	30-150	37120	37633.4	98.64	PASS	30-150
ICSAB1	ICSAB	1	1553015.9	1557858.2	99.69	PASS	30-150	36598.8	37633.4	97.25	PASS	30-150
LLICV1	LLICV	1	1538331.2	1557858.2	98.75	PASS	30-150	36676.8	37633.4	97.46	PASS	30-150
CCV1	CCV	1	1638415.1	1557858.2	105.17	PASS	30-150	42184.2	37633.4	112.09	PASS	30-150
CCB1	CCB	1	1675024.5	1557858.2	107.52	PASS	30-150	43138.9	37633.4	114.63	PASS	30-150
CCV2	CCV	1	1650128.2	1557858.2	105.92	PASS	30-150	41056.9	37633.4	109.1	PASS	30-150
CCB2	CCB	1	1602072.3	1557858.2	102.84	PASS	30-150	40321.9	37633.4	107.14	PASS	30-150
ICSA2	ICSA	1	1600154.7	1557858.2	102.72	PASS	30-150	40407.6	37633.4	107.37	PASS	30-150
ICSAB2	ICSAB	1	1602834	1557858.2	102.89	PASS	30-150	40287.3	37633.4	107.05	PASS	30-150
CCV3	CCV	1	1901062.8	1557858.2	122.03	PASS	30-150	48244.9	37633.4	128.2	PASS	30-150
CCB3	CCB	1	1901477.1	1557858.2	122.06	PASS	30-150	48014.4	37633.4	127.58	PASS	30-150
CCV4	CCV	1	1906357.4	1557858.2	122.37	PASS	30-150	46281.6	37633.4	122.98	PASS	30-150
CCB4	CCB	1	1851602.9	1557858.2	118.86	PASS	30-150	45079.5	37633.4	119.79	PASS	30-150
CCV5	CCV	1	1840812.3	1557858.2	118.16	PASS	30-150	45247.7	37633.4	120.23	PASS	30-150
CCB5	CCB	1	1802673.3	1557858.2	115.71	PASS	30-150	43963.3	37633.4	116.82	PASS	30-150
CCV6	CCV	1	1890902.1	1557858.2	121.38	PASS	30-150	46708.3	37633.4	124.11	PASS	30-150
CCB6	CCB	1	1855677.3	1557858.2	119.12	PASS	30-150	45057.2	37633.4	119.73	PASS	30-150
ICSA3	ICSA	1	1827714.7	1557858.2	117.32	PASS	30-150	44600.4	37633.4	118.51	PASS	30-150
ICSAB3	ICSAB	1	1802169.1	1557858.2	115.68	PASS	30-150	44540.3	37633.4	118.35	PASS	30-150
CCV7	CCV	1	1492949.5	1557858.2	95.83	PASS	30-150	42057.3	37633.4	111.76	PASS	30-150
CCB7	CCB	1	1475542.6	1557858.2	94.72	PASS	30-150	39850.7	37633.4	105.89	PASS	30-150
CCV8	CCV	1	1672787.3	1557858.2	107.38	PASS	30-150	36179.1	37633.4	96.14	PASS	30-150
CCB8	CCB	1	1637540.9	1557858.2	105.11	PASS	30-150	35121.3	37633.4	93.32	PASS	30-150
CCV9	CCV	1	1681369	1557858.2	107.93	PASS	30-150	36411.8	37633.4	96.75	PASS	30-150
CCB9	CCB	1	1691887.6	1557858.2	108.6	PASS	30-150	36509.9	37633.4	97.02	PASS	30-150
ICSA4	ICSA	1	1689951.7	1557858.2	108.48	PASS	30-150	36490.9	37633.4	96.96	PASS	30-150
ICSAB4	ICSAB	1	1727989.9	1557858.2	110.92	PASS	30-150	37191.4	37633.4	98.83	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	1736336.7	1557858.2	111.46	PASS	30-150	37053.2	37633.4	98.46	PASS	30-150
CCB10	CCB	1	1697400.2	1557858.2	108.96	PASS	30-150	36448.5	37633.4	96.85	PASS	30-150
CCV11	CCV	1	1743649.2	1557858.2	111.93	PASS	30-150	36906.2	37633.4	98.07	PASS	30-150
CCB11	CCB	1	1708294	1557858.2	109.66	PASS	30-150	36880.6	37633.4	98	PASS	30-150
CCV12	CCV	1	1569875.2	1557858.2	100.77	PASS	30-150	33647.2	37633.4	89.41	PASS	30-150
CCB12	CCB	1	1554385	1557858.2	99.78	PASS	30-150	33177.3	37633.4	88.16	PASS	30-150
ICSA5	ICSA	1	1530083.7	1557858.2	98.22	PASS	30-150	32801.1	37633.4	87.16	PASS	30-150
ICSAB5	ICSAB	1	1541234.6	1557858.2	98.93	PASS	30-150	32866.7	37633.4	87.33	PASS	30-150
MB-105955	MBLK	1	1607109.4	1557858.2	103.16	PASS	30-150	34349.7	37633.4	91.27	PASS	30-150
LCS-105955	LCS	1	1648879.1	1557858.2	105.84	PASS	30-150	34230.6	37633.4	90.96	PASS	30-150
N062272-001C	SAMP	1	1514958.8	1557858.2	97.25	PASS	30-150	30959.7	37633.4	82.27	PASS	30-150
N062272-002C	SAMP	1	1579004	1557858.2	101.36	PASS	30-150	31790.2	37633.4	84.47	PASS	30-150
N062272-003C	SAMP	1	1563792.6	1557858.2	100.38	PASS	30-150	31570.9	37633.4	83.89	PASS	30-150
N062272-004C	SAMP	1	1456626.4	1557858.2	93.5	PASS	30-150	30921.9	37633.4	82.17	PASS	30-150
N062272-004C	SAMP	5	1555565.3	1557858.2	99.85	PASS	30-150	32670.8	37633.4	86.81	PASS	30-150
N062272-004C-PS	PS	1	1487699.6	1557858.2	95.5	PASS	30-150	32312.3	37633.4	85.86	PASS	30-150
N062272-004C-MS	MS	1	1495589.7	1557858.2	96	PASS	30-150	32286.7	37633.4	85.79	PASS	30-150
CCV13	CCV	1	1689665.4	1557858.2	108.46	PASS	30-150	36205.8	37633.4	96.21	PASS	30-150
CCB13	CCB	1	1682361	1557858.2	107.99	PASS	30-150	35916.3	37633.4	95.44	PASS	30-150
N062272-004C-MSD	MSD	1	1597473.1	1557858.2	102.54	PASS	30-150	34036.8	37633.4	90.44	PASS	30-150
N062272-005C	SAMP	1	1396829.6	1557858.2	89.66	PASS	30-150	32237.7	37633.4	85.66	PASS	30-150
N062272-006C	SAMP	1	1284383.1	1557858.2	82.45	PASS	30-150	31021	37633.4	82.43	PASS	30-150
N062272-007C	SAMP	1	1637425.6	1557858.2	105.11	PASS	30-150	33171.8	37633.4	88.14	PASS	30-150
N062272-008C	SAMP	1	1589281.6	1557858.2	102.02	PASS	30-150	32176.5	37633.4	85.5	PASS	30-150
N062272-009C	SAMP	1	1165353.3	1557858.2	74.8	PASS	30-150	29862.3	37633.4	79.35	PASS	30-150
N062272-010C	SAMP	1	1136023.9	1557858.2	72.92	PASS	30-150	28895	37633.4	76.78	PASS	30-150
N062272-011C	SAMP	1	1278489.5	1557858.2	82.07	PASS	30-150	30780.6	37633.4	81.79	PASS	30-150
N062272-013C	SAMP	1	1234575.2	1557858.2	79.25	PASS	30-150	30275.2	37633.4	80.45	PASS	30-150
CCV14	CCV	1	1517490.9	1557858.2	97.41	PASS	30-150	32936.9	37633.4	87.52	PASS	30-150
CCB14	CCB	1	1508569.7	1557858.2	96.84	PASS	30-150	31892.7	37633.4	84.75	PASS	30-150
N062272-014C	SAMP	1	1292627.6	1557858.2	82.97	PASS	30-150	29221.1	37633.4	77.65	PASS	30-150
N062272-015C	SAMP	1	1193818.9	1557858.2	76.63	PASS	30-150	28930.6	37633.4	76.87	PASS	30-150
N062272-016C	SAMP	1	1115723.2	1557858.2	71.62	PASS	30-150	28403	37633.4	75.47	PASS	30-150
N062272-017C	SAMP	1	1226749.7	1557858.2	78.75	PASS	30-150	29546.2	37633.4	78.51	PASS	30-150
N062272-018C	SAMP	1	1231957.9	1557858.2	79.08	PASS	30-150	30325.3	37633.4	80.58	PASS	30-150
N062272-019C	SAMP	1	1274609.7	1557858.2	81.82	PASS	30-150	31666.6	37633.4	84.14	PASS	30-150
N062272-020C	SAMP	1	1255374.7	1557858.2	80.58	PASS	30-150	31823.6	37633.4	84.56	PASS	30-150
CCV15	CCV	1	1605333.5	1557858.2	103.05	PASS	30-150	34767.2	37633.4	92.38	PASS	30-150
CCB15	CCB	1	1578264.9	1557858.2	101.31	PASS	30-150	33539.2	37633.4	89.12	PASS	30-150
CCV16	CCV	1	1508986.8	1557858.2	96.86	PASS	30-150	32264.5	37633.4	85.73	PASS	30-150
CCB16	CCB	1	1492177.8	1557858.2	95.78	PASS	30-150	31795.8	37633.4	84.49	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSA6	ICSA	1	1491257.9	1557858.2	95.72	PASS	30-150	31911.5	37633.4	84.8	PASS	30-150
ICSAB6	ICSAB	1	1502576.4	1557858.2	96.45	PASS	30-150	31762.4	37633.4	84.4	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	21536.4	21536.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	21312.8	21536.4	98.96	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	20926.7	21536.4	97.17	PASS	30-150
Std3-5/50 ppb	ICAL	1	20925.6	21536.4	97.16	PASS	30-150
Std4-10/100 ppb	ICAL	1	21074.7	21536.4	97.86	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	22625.7	21536.4	105.06	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	22335.3	21536.4	103.71	PASS	30-150
Std7-100/1000 ppb	ICAL	1	22240.7	21536.4	103.27	PASS	30-150
Std8-200/2000 ppb	ICAL	1	21783.4	21536.4	101.15	PASS	30-150
ICV	ICV	1	21137	21536.4	98.15	PASS	30-150
ICV	ICV	1	21420.7	21536.4	99.46	PASS	30-150
ICB	ICB	1	21238.3	21536.4	98.62	PASS	30-150
LLICV1	LLICV	1	21430.7	21536.4	99.51	PASS	30-150
MLCCV	CCV	1	21545.3	21536.4	100.04	PASS	30-150
ICSA1	ICSA	1	21133.7	21536.4	98.13	PASS	30-150
ICSAB1	ICSAB	1	20816.6	21536.4	96.66	PASS	30-150
LLICV1	LLICV	1	20873.3	21536.4	96.92	PASS	30-150
CCV1	CCV	1	23574.8	21536.4	109.46	PASS	30-150
CCB1	CCB	1	23948.6	21536.4	111.2	PASS	30-150
CCV2	CCV	1	23778.4	21536.4	110.41	PASS	30-150
CCB2	CCB	1	23266.6	21536.4	108.03	PASS	30-150
ICSA2	ICSA	1	23389	21536.4	108.6	PASS	30-150
ICSAB2	ICSAB	1	23780.6	21536.4	110.42	PASS	30-150
CCV3	CCV	1	28265.5	21536.4	131.25	PASS	30-150
CCB3	CCB	1	27875.9	21536.4	129.44	PASS	30-150
CCV4	CCV	1	27248.3	21536.4	126.52	PASS	30-150
CCB4	CCB	1	27006.7	21536.4	125.4	PASS	30-150
CCV5	CCV	1	26581.6	21536.4	123.43	PASS	30-150
CCB5	CCB	1	25463.2	21536.4	118.23	PASS	30-150
CCV6	CCV	1	27278.3	21536.4	126.66	PASS	30-150
CCB6	CCB	1	26357.9	21536.4	122.39	PASS	30-150
ICSA3	ICSA	1	25839.3	21536.4	119.98	PASS	30-150
ICSAB3	ICSAB	1	25665.6	21536.4	119.17	PASS	30-150
CCV7	CCV	1	24088.9	21536.4	111.85	PASS	30-150
CCB7	CCB	1	23521.4	21536.4	109.22	PASS	30-150
CCV8	CCV	1	21372.9	21536.4	99.24	PASS	30-150
CCB8	CCB	1	21049.1	21536.4	97.74	PASS	30-150
CCV9	CCV	1	21463	21536.4	99.66	PASS	30-150
CCB9	CCB	1	21909.1	21536.4	101.73	PASS	30-150
ICSA4	ICSA	1	21933.6	21536.4	101.84	PASS	30-150
ICSAB4	ICSAB	1	22105	21536.4	102.64	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	22558.9	21536.4	104.75	PASS	30-150
CCB10	CCB	1	22135	21536.4	102.78	PASS	30-150
CCV11	CCV	1	22464.3	21536.4	104.31	PASS	30-150
CCB11	CCB	1	21985.9	21536.4	102.09	PASS	30-150
CCV12	CCV	1	20558.5	21536.4	95.46	PASS	30-150
CCB12	CCB	1	20166.9	21536.4	93.64	PASS	30-150
ICSA5	ICSA	1	19854.3	21536.4	92.19	PASS	30-150
ICSAB5	ICSAB	1	19694.1	21536.4	91.45	PASS	30-150
MB-105955	MBLK	1	20757.7	21536.4	96.38	PASS	30-150
LCS-105955	LCS	1	20757.7	21536.4	96.38	PASS	30-150
N062272-001C	SAMP	1	18888.7	21536.4	87.71	PASS	30-150
N062272-002C	SAMP	1	19203.5	21536.4	89.17	PASS	30-150
N062272-003C	SAMP	1	19110.1	21536.4	88.73	PASS	30-150
N062272-004C	SAMP	1	18261.3	21536.4	84.79	PASS	30-150
N062272-004C	SAMP	5	19558.4	21536.4	90.82	PASS	30-150
N062272-004C-PS	PS	1	19185.7	21536.4	89.09	PASS	30-150
N062272-004C-MS	MS	1	18987.7	21536.4	88.17	PASS	30-150
CCV13	CCV	1	21787.9	21536.4	101.17	PASS	30-150
CCB13	CCB	1	21703.3	21536.4	100.77	PASS	30-150
N062272-004C-MSD	MSD	1	20300.4	21536.4	94.26	PASS	30-150
N062272-005C	SAMP	1	18461.5	21536.4	85.72	PASS	30-150
N062272-006C	SAMP	1	17456	21536.4	81.05	PASS	30-150
N062272-007C	SAMP	1	20056.8	21536.4	93.13	PASS	30-150
N062272-008C	SAMP	1	19750.9	21536.4	91.71	PASS	30-150
N062272-009C	SAMP	1	16616.3	21536.4	77.15	PASS	30-150
N062272-010C	SAMP	1	16452.8	21536.4	76.4	PASS	30-150
N062272-011C	SAMP	1	17836.4	21536.4	82.82	PASS	30-150
N062272-013C	SAMP	1	17067.8	21536.4	79.25	PASS	30-150
CCV14	CCV	1	19551.7	21536.4	90.78	PASS	30-150
CCB14	CCB	1	19357	21536.4	89.88	PASS	30-150
N062272-014C	SAMP	1	16896.5	21536.4	78.46	PASS	30-150
N062272-015C	SAMP	1	16604	21536.4	77.1	PASS	30-150
N062272-016C	SAMP	1	16002.3	21536.4	74.3	PASS	30-150
N062272-017C	SAMP	1	16934.4	21536.4	78.63	PASS	30-150
N062272-018C	SAMP	1	17603.9	21536.4	81.74	PASS	30-150
N062272-019C	SAMP	1	18403.7	21536.4	85.45	PASS	30-150
N062272-020C	SAMP	1	18102.3	21536.4	84.05	PASS	30-150
CCV15	CCV	1	20896.7	21536.4	97.03	PASS	30-150
CCB15	CCB	1	20326	21536.4	94.38	PASS	30-150
CCV16	CCV	1	19452.7	21536.4	90.32	PASS	30-150
CCB16	CCB	1	19294.7	21536.4	89.59	PASS	30-150

INTERNAL STANDARD: 240110A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSA6	ICSA	1	19264.7	21536.4	89.45	PASS	30-150
ICSAB6	ICSAB	1	19135.7	21536.4	88.85	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	2182441.4	2182441.4	100	PASS	30-150	54104.9	54104.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	2226299.9	2182441.4	102.01	PASS	30-150	53213.2	54104.9	98.35	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	2212831	2182441.4	101.39	PASS	30-150	52994.9	54104.9	97.95	PASS	30-150
Std3-5/50 ppb	ICAL	1	2214052.9	2182441.4	101.45	PASS	30-150	53388.3	54104.9	98.68	PASS	30-150
Std4-10/100 ppb	ICAL	1	2226157.9	2182441.4	102	PASS	30-150	53436.1	54104.9	98.76	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	2180934.3	2182441.4	99.93	PASS	30-150	52906.7	54104.9	97.79	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	2252531.1	2182441.4	103.21	PASS	30-150	53081.8	54104.9	98.11	PASS	30-150
Std7-100/1000 ppb	ICAL	1	2260097.9	2182441.4	103.56	PASS	30-150	53161	54104.9	98.26	PASS	30-150
Std8-200/2000 ppb	ICAL	1	2282692.2	2182441.4	104.59	PASS	30-150	52955.8	54104.9	97.88	PASS	30-150
ICV	ICV	1	2272087.8	2182441.4	104.11	PASS	30-150	51646.1	54104.9	95.46	PASS	30-150
ICV	ICV	1	2265280.1	2182441.4	103.8	PASS	30-150	51276.2	54104.9	94.77	PASS	30-150
ICB	ICB	1	2249043.9	2182441.4	103.05	PASS	30-150	51223.8	54104.9	94.67	PASS	30-150
LLICV1	LLICV	1	2241968.1	2182441.4	102.73	PASS	30-150	51353	54104.9	94.91	PASS	30-150
LLICV1	LLICV	1	2254759	2182441.4	103.31	PASS	30-150	51306.2	54104.9	94.83	PASS	30-150
MLCCV	CCV	1	2321238.6	2182441.4	106.36	PASS	30-150	52654.8	54104.9	97.32	PASS	30-150
ICSA1	ICSA	1	2243263.8	2182441.4	102.79	PASS	30-150	51493.5	54104.9	95.17	PASS	30-150
ICSAB1	ICSAB	1	2222228.1	2182441.4	101.82	PASS	30-150	51377.6	54104.9	94.96	PASS	30-150
CCV1	CCV	1	2245880.5	2182441.4	102.91	PASS	30-150	50765.7	54104.9	93.83	PASS	30-150
CCB1	CCB	1	2218027.9	2182441.4	101.63	PASS	30-150	50377.9	54104.9	93.11	PASS	30-150
CCV2	CCV	1	2237225.3	2182441.4	102.51	PASS	30-150	47925.1	54104.9	88.58	PASS	30-150
CCB2	CCB	1	2197704.3	2182441.4	100.7	PASS	30-150	47475.1	54104.9	87.75	PASS	30-150
CCV3	CCV	1	2246812.3	2182441.4	102.95	PASS	30-150	46958	54104.9	86.79	PASS	30-150
CCB3	CCB	1	2209228.6	2182441.4	101.23	PASS	30-150	46005.3	54104.9	85.03	PASS	30-150
ICSA2	ICSA	1	2220320.8	2182441.4	101.74	PASS	30-150	46753	54104.9	86.41	PASS	30-150
ICSAB2	ICSAB	1	2230569.6	2182441.4	102.21	PASS	30-150	46785.3	54104.9	86.47	PASS	30-150
CCV4	CCV	1	2180321.7	2182441.4	99.9	PASS	30-150	45890.5	54104.9	84.82	PASS	30-150
CCB4	CCB	1	2165364.1	2182441.4	99.22	PASS	30-150	45021.6	54104.9	83.21	PASS	30-150
CCV5	CCV	1	2191510.6	2182441.4	100.42	PASS	30-150	45156.4	54104.9	83.46	PASS	30-150
CCB5	CCB	1	2159765.1	2182441.4	98.96	PASS	30-150	44545.9	54104.9	82.33	PASS	30-150
N062272-002C	SAMP	10	2171392	2182441.4	99.49	PASS	30-150	43461.9	54104.9	80.33	PASS	30-150
N062272-007C	SAMP	10	2173502	2182441.4	99.59	PASS	30-150	43779.4	54104.9	80.92	PASS	30-150
N062272-008C	SAMP	10	2168020.4	2182441.4	99.34	PASS	30-150	42831.4	54104.9	79.16	PASS	30-150
N062272-015C	SAMP	1	1712689.9	2182441.4	78.48	PASS	30-150	40741.8	54104.9	75.3	PASS	30-150
N062272-018C	SAMP	1	1762611.3	2182441.4	80.76	PASS	30-150	41020.2	54104.9	75.82	PASS	30-150
N062272-019C	SAMP	10	2063813.9	2182441.4	94.56	PASS	30-150	43169	54104.9	79.79	PASS	30-150
N062272-015C	SAMP	1	1749901.5	2182441.4	80.18	PASS	30-150	40873.2	54104.9	75.54	PASS	30-150
N062272-018C	SAMP	1	1786677.3	2182441.4	81.87	PASS	30-150	42319	54104.9	78.22	PASS	30-150
CCV6	CCV	1	2235308.4	2182441.4	102.42	PASS	30-150	45623.2	54104.9	84.32	PASS	30-150
CCB6	CCB	1	2223463.9	2182441.4	101.88	PASS	30-150	44705.2	54104.9	82.63	PASS	30-150
ICSA3	ICSA	1	2218568.6	2182441.4	101.66	PASS	30-150	44997	54104.9	83.17	PASS	30-150
ICSAB3	ICSAB	1	2237502.2	2182441.4	102.52	PASS	30-150	44992.6	54104.9	83.16	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	2155432.2	2182441.4	98.76	PASS	30-150	43552.1	54104.9	80.5	PASS	30-150
CCB7	CCB	1	2138931.1	2182441.4	98.01	PASS	30-150	42994.1	54104.9	79.46	PASS	30-150
CCV8	CCV	1	2162790.7	2182441.4	99.1	PASS	30-150	43132.2	54104.9	79.72	PASS	30-150
CCB8	CCB	1	2136349.9	2182441.4	97.89	PASS	30-150	42400.3	54104.9	78.37	PASS	30-150
CCV9	CCV	1	2136356.8	2182441.4	97.89	PASS	30-150	42805.7	54104.9	79.12	PASS	30-150
CCB9	CCB	1	2130455.1	2182441.4	97.62	PASS	30-150	42239.9	54104.9	78.07	PASS	30-150
ICSA4	ICSA	1	2147967.6	2182441.4	98.42	PASS	30-150	42577.4	54104.9	78.69	PASS	30-150
ICSAB4	ICSAB	1	2141338.7	2182441.4	98.12	PASS	30-150	42727.8	54104.9	78.97	PASS	30-150
CCV10	CCV	1	2132878.3	2182441.4	97.73	PASS	30-150	41451.3	54104.9	76.61	PASS	30-150
CCB10	CCB	1	2122477	2182441.4	97.25	PASS	30-150	40404.2	54104.9	74.68	PASS	30-150
CCV11	CCV	1	2109676.9	2182441.4	96.67	PASS	30-150	39536.6	54104.9	73.07	PASS	30-150
CCB11	CCB	1	2100798.4	2182441.4	96.26	PASS	30-150	38754.8	54104.9	71.63	PASS	30-150
CCV12	CCV	1	2115287	2182441.4	96.92	PASS	30-150	38446.4	54104.9	71.06	PASS	30-150
CCB12	CCB	1	2103273.1	2182441.4	96.37	PASS	30-150	37891.7	54104.9	70.03	PASS	30-150
ICSA5	ICSA	1	2088986.2	2182441.4	95.72	PASS	30-150	38029.9	54104.9	70.29	PASS	30-150
ICSAB5	ICSAB	1	2115311.4	2182441.4	96.92	PASS	30-150	37960.8	54104.9	70.16	PASS	30-150
CCV13	CCV	1	2132862.2	2182441.4	97.73	PASS	30-150	37883.9	54104.9	70.02	PASS	30-150
CCB13	CCB	1	2113480.5	2182441.4	96.84	PASS	30-150	37608.9	54104.9	69.51	PASS	30-150
CCV14	CCV	1	2119334.8	2182441.4	97.11	PASS	30-150	37670.1	54104.9	69.62	PASS	30-150
CCB14	CCB	1	2128026.3	2182441.4	97.51	PASS	30-150	36198	54104.9	66.9	PASS	30-150
CCV15	CCV	1	2108343	2182441.4	96.6	PASS	30-150	35454.2	54104.9	65.53	PASS	30-150
CCB15	CCB	1	2107288.7	2182441.4	96.56	PASS	30-150	34482.2	54104.9	63.73	PASS	30-150
N062272-018C	SAMP	1	1701861.2	2182441.4	77.98	PASS	30-150	31805.8	54104.9	58.79	PASS	30-150
N062272-018C	SAMP	1	1692671.7	2182441.4	77.56	PASS	30-150	32150.8	54104.9	59.42	PASS	30-150
N062272-018C	SAMP	1	1672460	2182441.4	76.63	PASS	30-150	31983.9	54104.9	59.11	PASS	30-150
CCV16	CCV	1	2119406.6	2182441.4	97.11	PASS	30-150	34183.8	54104.9	63.18	PASS	30-150
CCB16	CCB	1	2102232.7	2182441.4	96.32	PASS	30-150	32904.5	54104.9	60.82	PASS	30-150
ICSA6	ICSA	1	2083739	2182441.4	95.48	PASS	30-150	32919	54104.9	60.84	PASS	30-150
ICSAB6	ICSAB	1	2124573.7	2182441.4	97.35	PASS	30-150	33139.4	54104.9	61.25	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	31649.5	31649.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	31926.6	31649.5	100.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	31629.4	31649.5	99.94	PASS	30-150
Std3-5/50 ppb	ICAL	1	31622.7	31649.5	99.92	PASS	30-150
Std4-10/100 ppb	ICAL	1	31857.6	31649.5	100.66	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	31194.2	31649.5	98.56	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	31915.5	31649.5	100.84	PASS	30-150
Std7-100/1000 ppb	ICAL	1	31804.2	31649.5	100.49	PASS	30-150
Std8-200/2000 ppb	ICAL	1	31541.4	31649.5	99.66	PASS	30-150
ICV	ICV	1	31124	31649.5	98.34	PASS	30-150
ICV	ICV	1	30451.6	31649.5	96.22	PASS	30-150
ICB	ICB	1	30244.6	31649.5	95.56	PASS	30-150
LLICV1	LLICV	1	30407.1	31649.5	96.08	PASS	30-150
LLICV1	LLICV	1	30802.3	31649.5	97.32	PASS	30-150
MLCCV	CCV	1	31412.3	31649.5	99.25	PASS	30-150
ICSA1	ICSA	1	30504	31649.5	96.38	PASS	30-150
ICSAB1	ICSAB	1	30481.7	31649.5	96.31	PASS	30-150
CCV1	CCV	1	30417.1	31649.5	96.11	PASS	30-150
CCB1	CCB	1	30412.7	31649.5	96.09	PASS	30-150
CCV2	CCV	1	28327.8	31649.5	89.5	PASS	30-150
CCB2	CCB	1	28904.4	31649.5	91.33	PASS	30-150
CCV3	CCV	1	28315.6	31649.5	89.47	PASS	30-150
CCB3	CCB	1	28133	31649.5	88.89	PASS	30-150
ICSA2	ICSA	1	27992.8	31649.5	88.45	PASS	30-150
ICSAB2	ICSAB	1	27815.9	31649.5	87.89	PASS	30-150
CCV4	CCV	1	27860.4	31649.5	88.03	PASS	30-150
CCB4	CCB	1	27600	31649.5	87.21	PASS	30-150
CCV5	CCV	1	27293.9	31649.5	86.24	PASS	30-150
CCB5	CCB	1	27360.6	31649.5	86.45	PASS	30-150
N062272-002C	SAMP	10	26993.4	31649.5	85.29	PASS	30-150
N062272-007C	SAMP	10	26557.1	31649.5	83.91	PASS	30-150
N062272-008C	SAMP	10	26721.9	31649.5	84.43	PASS	30-150
N062272-015C	SAMP	1	23190.9	31649.5	73.27	PASS	30-150
N062272-018C	SAMP	1	23395.6	31649.5	73.92	PASS	30-150
N062272-019C	SAMP	10	26042.9	31649.5	82.29	PASS	30-150
N062272-015C	SAMP	1	23464.6	31649.5	74.14	PASS	30-150
N062272-018C	SAMP	1	23865.2	31649.5	75.4	PASS	30-150
CCV6	CCV	1	27933.8	31649.5	88.26	PASS	30-150
CCB6	CCB	1	28129.7	31649.5	88.88	PASS	30-150
ICSA3	ICSA	1	27403	31649.5	86.58	PASS	30-150
ICSAB3	ICSAB	1	27499.8	31649.5	86.89	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	26921	31649.5	85.06	PASS	30-150
CCB7	CCB	1	26730.7	31649.5	84.46	PASS	30-150
CCV8	CCV	1	26405.7	31649.5	83.43	PASS	30-150
CCB8	CCB	1	26130.9	31649.5	82.56	PASS	30-150
CCV9	CCV	1	26639.5	31649.5	84.17	PASS	30-150
CCB9	CCB	1	26029.6	31649.5	82.24	PASS	30-150
ICSA4	ICSA	1	26687.3	31649.5	84.32	PASS	30-150
ICSAB4	ICSAB	1	26315.6	31649.5	83.15	PASS	30-150
CCV10	CCV	1	25573.3	31649.5	80.8	PASS	30-150
CCB10	CCB	1	25554.4	31649.5	80.74	PASS	30-150
CCV11	CCV	1	25153.8	31649.5	79.48	PASS	30-150
CCB11	CCB	1	24717.5	31649.5	78.1	PASS	30-150
CCV12	CCV	1	24467.2	31649.5	77.31	PASS	30-150
CCB12	CCB	1	24102.2	31649.5	76.15	PASS	30-150
ICSA5	ICSA	1	23923.1	31649.5	75.59	PASS	30-150
ICSAB5	ICSAB	1	24163.4	31649.5	76.35	PASS	30-150
CCV13	CCV	1	24268	31649.5	76.68	PASS	30-150
CCB13	CCB	1	24273.6	31649.5	76.7	PASS	30-150
CCV14	CCV	1	23900.8	31649.5	75.52	PASS	30-150
CCB14	CCB	1	23490.2	31649.5	74.22	PASS	30-150
CCV15	CCV	1	22892.7	31649.5	72.33	PASS	30-150
CCB15	CCB	1	22454.3	31649.5	70.95	PASS	30-150
N062272-018C	SAMP	1	19774.2	31649.5	62.48	PASS	30-150
N062272-018C	SAMP	1	19567.3	31649.5	61.82	PASS	30-150
N062272-018C	SAMP	1	19468.3	31649.5	61.51	PASS	30-150
CCV16	CCV	1	22096	31649.5	69.81	PASS	30-150
CCB16	CCB	1	21978.1	31649.5	69.44	PASS	30-150
ICSA6	ICSA	1	21595.4	31649.5	68.23	PASS	30-150
ICSAB6	ICSAB	1	21648.8	31649.5	68.4	PASS	30-150

INTERNAL STANDARD: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	32819.5	32819.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	34390.5	32819.5	104.79	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	33495.4	32819.5	102.06	PASS	30-150
Std3-5/50 ppb	ICAL	1	33781.5	32819.5	102.93	PASS	30-150
Std4-10/100 ppb	ICAL	1	33497.6	32819.5	102.07	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	33152.4	32819.5	101.01	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	34086.6	32819.5	103.86	PASS	30-150
Std7-100/1000 ppb	ICAL	1	33228.1	32819.5	101.24	PASS	30-150
Std8-200/2000 ppb	ICAL	1	33794.9	32819.5	102.97	PASS	30-150
ICV	ICV	1	33218.1	32819.5	101.21	PASS	30-150
ICB	ICB	1	31789.7	32819.5	96.86	PASS	30-150
LLICV1	LLICV	1	32603.5	32819.5	99.34	PASS	30-150
MLCCV	CCV	1	32562.3	32819.5	99.22	PASS	30-150
ICSA1	ICSA	1	32007.9	32819.5	97.53	PASS	30-150
ICSAB1	ICSAB	1	32210.5	32819.5	98.14	PASS	30-150
CCV1	CCV	1	31376.7	32819.5	95.6	PASS	30-150
CCB1	CCB	1	30323.6	32819.5	92.4	PASS	30-150
CCV2	CCV	1	31965.6	32819.5	97.4	PASS	30-150
CCB2	CCB	1	30796.7	32819.5	93.84	PASS	30-150
ICSA2	ICSA	1	31613.8	32819.5	96.33	PASS	30-150
ICSAB2	ICSAB	1	31996.8	32819.5	97.49	PASS	30-150
CCV3	CCV	1	32472.1	32819.5	98.94	PASS	30-150
CCB3	CCB	1	31197.5	32819.5	95.06	PASS	30-150
CCV4	CCV	1	30079.9	32819.5	91.65	PASS	30-150
CCB4	CCB	1	29024.6	32819.5	88.44	PASS	30-150
CCV5	CCV	1	29820.5	32819.5	90.86	PASS	30-150
CCB5	CCB	1	28923.3	32819.5	88.13	PASS	30-150
CCV6	CCV	1	29475.4	32819.5	89.81	PASS	30-150
CCB6	CCB	1	28192.1	32819.5	85.9	PASS	30-150
ICSA3	ICSA	1	28926.6	32819.5	88.14	PASS	30-150
ICSAB3	ICSAB	1	28854.3	32819.5	87.92	PASS	30-150
N062272-018C	SAMP	1	24127.8	32819.5	73.52	PASS	30-150
CCV7	CCV	1	28521.5	32819.5	86.9	PASS	30-150
CCB7	CCB	1	27893.8	32819.5	84.99	PASS	30-150
CCV8	CCV	1	28422.5	32819.5	86.6	PASS	30-150
CCB8	CCB	1	27586.6	32819.5	84.06	PASS	30-150
CCV9	CCV	1	28077.4	32819.5	85.55	PASS	30-150
CCB9	CCB	1	27149.2	32819.5	82.72	PASS	30-150
ICSA4	ICSA	1	27568.7	32819.5	84	PASS	30-150
ICSAB4	ICSAB	1	28080.7	32819.5	85.56	PASS	30-150
CCV10	CCV	1	27149.2	32819.5	82.72	PASS	30-150

INTERNAL STANDARD: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB10	CCB	1	26178.7	32819.5	79.77	PASS	30-150
CCV11	CCV	1	26993.4	32819.5	82.25	PASS	30-150
CCB11	CCB	1	26307.8	32819.5	80.16	PASS	30-150
CCV12	CCV	1	26005.1	32819.5	79.24	PASS	30-150
CCB12	CCB	1	25272.8	32819.5	77.01	PASS	30-150
ICSA5	ICSA	1	26028.5	32819.5	79.31	PASS	30-150
ICSAB5	ICSAB	1	26100.8	32819.5	79.53	PASS	30-150

INTERNAL STANDARD: 240129A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	29114.8	29114.8	100	PASS	70-125
Std1-0.1/1 ppb	ICAL	1	29065.8	29114.8	99.83	PASS	70-125
Std2-0.5/5 ppb	ICAL	1	28561.6	29114.8	98.1	PASS	70-125
Std3-5/50 ppb	ICAL	1	28216.5	29114.8	96.91	PASS	70-125
Std4-10/100 ppb	ICAL	1	28743.1	29114.8	98.72	PASS	70-125
Std5-4.0/20/200 ppb	ICAL	1	28538.2	29114.8	98.02	PASS	70-125
Std6-8.0/40/400 ppb	ICAL	1	28962.3	29114.8	99.48	PASS	70-125
Std7-100/1000 ppb	ICAL	1	28747.4	29114.8	98.74	PASS	70-125
Std8-200/2000 ppb	ICAL	1	28812	29114.8	98.96	PASS	70-125
ICV	ICV	1	28044	29114.8	96.32	PASS	70-125
ICB	ICB	1	28016.2	29114.8	96.23	PASS	70-125
LLICV1	LLICV	1	27923.8	29114.8	95.91	PASS	70-125
MLCCV	CCV	1	28032.9	29114.8	96.28	PASS	70-125
ICSA1	ICSA	1	27483.1	29114.8	94.4	PASS	70-125
ICSAB1	ICSAB	1	28154.2	29114.8	96.7	PASS	70-125
CCV1	CCV	1	29035.7	29114.8	99.73	PASS	70-125
CCB1	CCB	1	29014.6	29114.8	99.66	PASS	70-125
CCV2	CCV	1	29456.5	29114.8	101.17	PASS	70-125
CCB2	CCB	1	28755.2	29114.8	98.76	PASS	70-125
CCV3	CCV	1	28916.7	29114.8	99.32	PASS	70-125
CCB3	CCB	1	28690.7	29114.8	98.54	PASS	70-125
ICSA2	ICSA	1	28878.8	29114.8	99.19	PASS	70-125
ICSAB2	ICSAB	1	28793.1	29114.8	98.9	PASS	70-125
CCV4	CCV	1	28482.5	29114.8	97.83	PASS	70-125
CCB4	CCB	1	28041.8	29114.8	96.31	PASS	70-125
CCV5	CCV	1	28079.6	29114.8	96.44	PASS	70-125
CCB5	CCB	1	27082.4	29114.8	93.02	PASS	70-125
CCV6	CCV	1	27833.6	29114.8	95.6	PASS	70-125
CCB6	CCB	1	26990	29114.8	92.7	PASS	70-125
ICSA3	ICSA	1	26806.4	29114.8	92.07	PASS	70-125
ICSAB3	ICSAB	1	27217.1	29114.8	93.48	PASS	70-125
MB-105955	MBLK	1	25832.6	29114.8	88.73	PASS	70-125
LCS-105955	LCS	1	27364	29114.8	93.99	PASS	70-125
N062272-001C	SAMP	1	25292.9	29114.8	86.87	PASS	70-125
N062272-002C	SAMP	1	25458.7	29114.8	87.44	PASS	70-125
N062272-003C	SAMP	1	26649.5	29114.8	91.53	PASS	70-125
N062272-004C	SAMP	1	24823.3	29114.8	85.26	PASS	70-125
N062272-004C	SAMP	5	26138.7	29114.8	89.78	PASS	70-125
N062272-004C-PS	PS	1	24411.5	29114.8	83.85	PASS	70-125
N062272-004C-MS	MS	1	24867.8	29114.8	85.41	PASS	70-125
N062272-004C-MSD	MSD	1	25478.7	29114.8	87.51	PASS	70-125

INTERNAL STANDARD: 240129A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	30181.2	29114.8	103.66	PASS	70-125
CCB7	CCB	1	29374.2	29114.8	100.89	PASS	70-125
ICSA4	ICSA	1	29610.1	29114.8	101.7	PASS	70-125
ICSAB4	ICSAB	1	30068.7	29114.8	103.28	PASS	70-125

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N062272
Test Method: EPA 6020
Analysis Date: 1/10, 29/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105955

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062272-004C DT 5x	Barium	Ba	µg/L	45.79497	PASS	46.45457	1.42%	10
N062272-004C DT 5x	Manganese	Mn	µg/L	17.29165	PASS	18.10894	4.51%	10
N062272-004C DT 5x	Arsenic	As	µg/L	0.5129407	NA	0.7374151	30.44%	10

Reviewed by:

 2/14/2024

Note: NA - Not Applicable

02/13/24 22:19

DT_EPA 6020_N062272_105955

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062272
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062272-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180280						
Client ID: ZZZZZZ	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/11/2024	SeqNo: 5616236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	56.774	1.0	10.00	46.45	103	80	120				
Manganese	106.051	0.50	100.0	18.11	87.9	80	120				

Sample ID: N062272-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180905						
Client ID: ZZZZZZ	Batch ID: 105955	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/29/2024	SeqNo: 5655390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.458	0.10	10.00	0.7374	97.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CORRECTIVE ACTION DOCUMENTATION



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Corrective Action Report (CAR)

Date Initiated: 12-Feb-24

Corrective Action Report ID: 7376

Initiated By: Nancy Sibucao

Department: QA

Corrective Action Description

CAR Summary: Arsenic biased low on CCV12

Description of Nonconformance: Samples N062272-001 to 004 and Batch QCs for batch 105955 were inadvertently reported with a low biased Arsenic on CCV12 of run # 180280.

Description of Corrective Action: Affected samples and Batch QCs were reanalyzed for Arsenic and results are comparable to the initial report.

Performed By:

Completion Date:

Client Notification

Client Notification Required: No

Notified By:

Comment: Report was amended to incorporate the re-analyzed result.

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA: None

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

Nancy 02/12/2024

QA Date:

Last Updated BY nancys

Updated: 12-Feb-2024 3:54 PM

Reported: 12-Feb-2024 3:54 PM



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MDL STUDY



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589



Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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Lab Job Number: 499833
Report Level: II
Report Date: 01/31/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N62273A

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

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CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499833
 Location: N62273A
 Date Received: 01/12/24

Sample ID	Lab ID	Collected	Matrix
N062273-001A/MW-39-040-0124	499833-001	01/09/24 10:05	Water
N062273-002A/MW-39-050-0124	499833-002	01/09/24 11:00	Water
N062273-003A/MW-39-060-0124	499833-003	01/09/24 11:24	Water
N062273-004A/MW-39-070-0124	499833-004	01/09/24 09:34	Water
N062273-005A/MW-39-080-0124	499833-005	01/09/24 10:33	Water
N062273-006A/MW-39-100-0124	499833-006	01/09/24 11:50	Water
N062273-007A/MW-30-050-0124	499833-007	01/09/24 12:46	Water
N062273-008A/MW-901-0124	499833-008	01/09/24 12:56	Water
N062273-009A/MW-904-Q124	499833-009	01/09/24 15:02	Water
N062273-010A/PT5D-0124	499833-010	01/09/24 14:52	Water
N062273-011A/PT6D-0124	499833-011	01/09/24 14:12	Water
N062273-012A/TW-02D-0124	499833-012	01/09/24 09:29	Water
N062273-013A/TW-02S-0124	499833-013	01/09/24 08:49	Water
N062273-014A/TW-03D-0124	499833-014	01/09/24 10:07	Water
N062273-015A/MW-82-046-0124	499833-015	01/09/24 11:11	Water
N062273-016A/MW-82-168-0124	499833-016	01/09/24 11:51	Water
N062273-017A/MW-82-198-0124	499833-017	01/09/24 12:30	Water
N062273-018A/MW-31-060-0124	499833-018	01/09/24 14:17	Water
N062273-019A/MW-31-135-0124	499833-019	01/09/24 13:37	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job 499833
Number:
Location: N62273A
Date Received: 01/12/24

This data package contains sample and QC results for nineteen water samples, requested for the above referenced project on 01/12/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

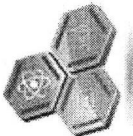
- Level II is also requested.
- High recoveries were observed for total organic carbon in the MS/MSD for batch 330627; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

2199833

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

Field Sampler: Riggie Tep

10-Jan-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N062273-001A / MW-39-040-0124	Groundwater	1/9/2024 10:05:00 AM	80ZA	1	
N062273-002A / MW-39-050-0124	Groundwater	1/9/2024 11:00:00 AM	80ZA	1	
N062273-003A / MW-39-060-0124	Groundwater	1/9/2024 11:24:00 AM	80ZA	1	
N062273-004A / MW-39-070-0124	Groundwater	1/9/2024 9:34:00 AM	80ZA	1	
N062273-005A / MW-39-080-0124	Groundwater	1/9/2024 10:33:00 AM	80ZA	1	
N062273-006A / MW-39-100-0124	Groundwater	1/9/2024 11:50:00 AM	80ZA	1	
N062273-007A / MW-30-050-0124	Groundwater	1/9/2024 12:46:00 PM	80ZA	1	
N062273-008A / MW-901-Q124	Groundwater	1/9/2024 12:56:00 PM	80ZA	1	
N062273-009A / MW-904-Q124	Groundwater	1/9/2024 3:02:00 PM	80ZA	1	
N062273-010A / PT5D-0124	Groundwater	1/9/2024 2:52:00 PM	80ZA	1	
N062273-011A / PT6D-0124	Groundwater	1/9/2024 2:12:00 PM	80ZA	1	
N062273-012A / TW-02D-0124	Groundwater	1/9/2024 9:29:00 AM	80ZA	1	
N062273-013A / TW-02S-0124	Groundwater	1/9/2024 8:49:00 AM	80ZA	1	
N062273-014A / TW-03D-0124	Groundwater	1/9/2024 10:07:00 AM	80ZA	1	
N062273-015A / MW-82-046-0124	Groundwater	1/9/2024 11:11:00 AM	80ZA	1	
N062273-016A / MW-82-168-0124	Groundwater	1/9/2024 11:51:00 AM	80ZA	1	
N062273-017A / MW-82-198-0124	Groundwater	1/9/2024 12:30:00 PM	80ZA	1	
N062273-018A / MW-31-060-0124	Groundwater	1/9/2024 2:17:00 PM	80ZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#N62273A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT

Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 560764505

Relinquished by: Efanegof Date/Time: 1/10/2024 1630

Received by: [Signature] Date/Time: 1/12/24 1015

Relinquished by: _____ Received by: _____

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

Field Sampler: Riggie Tep

10-Jan-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N062273-019A / MW-31-135-0124	Groundwater	1/9/2024 1:37:00 PM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO# N62273A. Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT
 Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 560764505

Date/Time	Date/Time
Relinquished by: <i>Efanegof</i>	Received by: <i>[Signature]</i>
1/10/2024 1630	1/12/24 1015
Relinquished by:	Received by:



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Asset Laboratories Project: N62273A
 Date Received: 1/12/24 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 4.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By:  Date: 1/12/24



800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 560764505

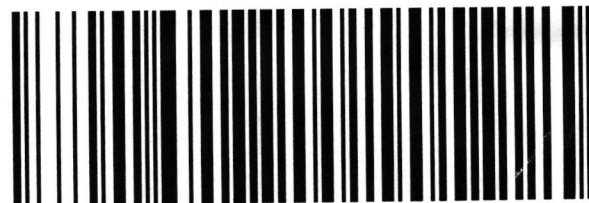
PDS



Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D



1729697

COD: \$0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 1/10/2024 11:54 AM

LABEL INSTRUCTIONS:

- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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Analysis Results for 499833

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499833
 Location: N62273A
 Date Received: 01/12/24

Sample ID: N062273-001A/MW-39-040-0124 **Lab ID:** 499833-001 **Collected:** 01/09/24 10:05
Matrix: Water

499833-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	11		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-002A/MW-39-050-0124 **Lab ID:** 499833-002 **Collected:** 01/09/24 11:00
Matrix: Water

499833-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.1		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-003A/MW-39-060-0124 **Lab ID:** 499833-003 **Collected:** 01/09/24 11:24
Matrix: Water

499833-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.8		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-004A/MW-39-070-0124 **Lab ID:** 499833-004 **Collected:** 01/09/24 09:34
Matrix: Water

499833-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-005A/MW-39-080-0124 **Lab ID:** 499833-005 **Collected:** 01/09/24 10:33
Matrix: Water

499833-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.9		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-006A/MW-39-100-0124 **Lab ID:** 499833-006 **Collected:** 01/09/24 11:50
Matrix: Water

499833-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.1		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Analysis Results for 499833

Sample ID: N062273-007A/MW-30-050-0124	Lab ID: 499833-007 Matrix: Water	Collected: 01/09/24 12:46
--	---	----------------------------------

499833-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.5		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-008A/MW-901-0124	Lab ID: 499833-008 Matrix: Water	Collected: 01/09/24 12:56
---	---	----------------------------------

499833-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-009A/MW-904-Q124	Lab ID: 499833-009 Matrix: Water	Collected: 01/09/24 15:02
---	---	----------------------------------

499833-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.7		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-010A/PT5D-0124	Lab ID: 499833-010 Matrix: Water	Collected: 01/09/24 14:52
---	---	----------------------------------

499833-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.8		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-011A/PT6D-0124	Lab ID: 499833-011 Matrix: Water	Collected: 01/09/24 14:12
---	---	----------------------------------

499833-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.9		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-012A/TW-02D-0124	Lab ID: 499833-012 Matrix: Water	Collected: 01/09/24 09:29
---	---	----------------------------------

499833-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.3		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-013A/TW-02S-0124	Lab ID: 499833-013 Matrix: Water	Collected: 01/09/24 08:49
---	---	----------------------------------

499833-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.5		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Analysis Results for 499833

Sample ID: N062273-014A/TW-03D-0124	Lab ID: 499833-014 Matrix: Water	Collected: 01/09/24 10:07
---	---	----------------------------------

499833-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.2		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-015A/MW-82-046-0124	Lab ID: 499833-015 Matrix: Water	Collected: 01/09/24 11:11
--	---	----------------------------------

499833-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	28		mg/L	2.0	2	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-016A/MW-82-168-0124	Lab ID: 499833-016 Matrix: Water	Collected: 01/09/24 11:51
--	---	----------------------------------

499833-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	ND		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-017A/MW-82-198-0124	Lab ID: 499833-017 Matrix: Water	Collected: 01/09/24 12:30
--	---	----------------------------------

499833-017 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.5		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-018A/MW-31-060-0124	Lab ID: 499833-018 Matrix: Water	Collected: 01/09/24 14:17
--	---	----------------------------------

499833-018 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.4		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

Sample ID: N062273-019A/MW-31-135-0124	Lab ID: 499833-019 Matrix: Water	Collected: 01/09/24 13:37
--	---	----------------------------------

499833-019 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	330627	01/16/24	01/17/24	EPL

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1120623	Batch: 330627
Matrix: Water	Method: SM 5310B	

QC1120623 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	01/16/24	01/17/24

Type: Lab Control Sample	Lab ID: QC1120624	Batch: 330627
Matrix: Water	Method: SM 5310B	

QC1120624 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.56	25.00	mg/L	98%		80-120

Type: Matrix Spike	Lab ID: QC1120625	Batch: 330627
Matrix (Source ID): Water (499941-001)	Method: SM 5310B	

QC1120625 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	43.69	7.841	25.00	mg/L	143%	*	80-120	2

Type: Matrix Spike Duplicate	Lab ID: QC1120626	Batch: 330627
Matrix (Source ID): Water (499941-001)	Method: SM 5310B	

QC1120626 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	44.82	7.841	25.00	mg/L	148%	*	80-120	3	20	2

* Value is outside QC limits
 ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062311

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Table of Contents

ASSET Laboratories Work Order: N062311

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EPA 6020_Dissolved	136-186



January 15, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062311

RE: PG&E Topock - PCM, 30121866

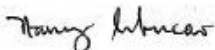
Attention: Dan Bush

Enclosed are the results for sample(s) received on January 10, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



ASSET LABORATORIES
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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062311

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062311
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062311-001A	MW-87-109-0124	Groundwater	1/10/2024 2:12:00 PM	1/10/2024	1/15/2024
N062311-001B	MW-87-109-0124	Groundwater	1/10/2024 2:12:00 PM	1/10/2024	1/15/2024



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 15-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062311
Project: PG&E Topock - PCM, 30121866
Lab ID: N062311-001

Client Sample ID: MW-87-109-0124
Collection Date: 1/10/2024 2:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240112A	QC Batch: R180345				PrepDate:		Analyst: RAB
Hexavalent Chromium	27	0.19	1.0		µg/L	5	1/12/2024 03:57 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240111E	QC Batch: 105986				PrepDate: 1/11/2024		Analyst: DJ
Chromium	27	0.035	1.0		µg/L	1	1/12/2024 02:59 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP Cert 4046 (EPA TO15 & TO3)

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180345	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: PBW	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620675
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID LCS-R180345	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: LCSW	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620676
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.052	0.20	5.000	0	101 90 110

Sample ID N062272-014ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620679
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	24.431	1.0			24.25 0.754 20

Sample ID N062272-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620683
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	49.363	1.0	25.00	24.25	100 90 110

Sample ID N062272-014AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620684
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	48.721	1.0	25.00	24.25	97.9 90 110 49.36 1.31 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062272-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.651	0.20	1.000	1.648	100	90	110				

Sample ID N062272-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620690						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.992	1.0	25.00	15.74	97.0	90	110				

Sample ID N062272-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620692						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.929	0.20	1.000	0	92.9	90	110				

Sample ID N062311-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	51.597	1.0	25.00	27.07	98.1	90	110				

Sample ID N062272-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620698						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.051	0.20	1.000	0	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062274-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620700							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.972	0.20	1.000	0	97.2	90	110				

Sample ID N062274-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620702							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.082	0.20	1.000	0	108	90	110				

Sample ID N062274-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620706							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.332	0.20	1.000	0.4232	90.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-105986	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180334						
Client ID: PBW	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5619936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID LCS-105986	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180334						
Client ID: LCSW	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5619937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.791 1.0 10.00 0 97.9 85 115

Sample ID N062312-006CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180334						
Client ID: ZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5619949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 17.105 1.0 10.00 8.110 89.9 75 125

Sample ID N062312-006CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180334						
Client ID: ZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5619952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 17.246 1.0 10.00 8.110 91.4 75 125 17.10 0.825 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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SAMPLE RECEIVING ITEMS



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California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition										
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Y N										
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com daniel.moore@collegen.com		Address:		Geotracker		RWQCB		<input checked="" type="checkbox"/>										
Phone: 916-786-3302 Fax:		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: m.bloes@pivox.com P.O.#		Labspec		CalTrans		1 Chilled										
Submitted By: <i>Rogier Tep</i>		Phone: 916-786-3302 Fax:		Phone: 949-727-1400, ext 200 Fax:		Others		LEVEL III		2 Headspace										
Title: <i>Field Tech</i>		Matrix				Specify:		LEVEL IV		3 Container Intact										
Signature: <i>[Signature]</i> Date: <i>01/10/24</i>		Sampled By: <i>[Signature]</i>		Ground X Sediment		RWQCB		Regulatory		4 Seal Present										
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Potable Soil		Global ID:		Specify State:		5. IR number <u>3</u>										
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i> Date: <i>01/10/24</i>		NPDES Other Solid		Global ID:		Specify State:		6. Method of Cooling: <i>ICE</i>										
Project Number: 30121866				Surface						Sample Temp: <i>2.7°C</i>										
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	C(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	250 mL poly	1 L poly	500mL poly	500mL poly	500mL poly	3x40 mL VOA	1 L poly	125 mL poly	1 L poly	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N062311-001	MW-87-109-0124	1/10/2024	14:12		X					X					C	2	P	BNS	48 hr TAT
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>01/10/24 1515</i>	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/10/24 1515</i>
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/10/24 1728</i>	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>1/10/24 1728</i>
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):

Turn Around Time (TAT)

<input type="checkbox"/> A	< 24 Hrs or Same Day TAT
<input type="checkbox"/> B	= Next Workday
<input checked="" type="checkbox"/> C	= 2 Workdays
<input type="checkbox"/> D	= 3 Workdays
<input type="checkbox"/> E	= Routine 5-7 Workdays

Special Instruction:

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level II Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.

5. Trip Blanks and Equipment Blanks are billable samples.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:		Container Type:	
H=HCL	N=HNO3	S=H2SO4	C=4°C
Z=Zn(AC)2	O=NaOH	T=Na2S2O3	T=Tube
Others/Specify: B	[(NH4)2SO4/NH4OH]		J=Jar
			V=VOA
			P=Pinl
			B=Tedlar
			G=Glass
			M=Metal
			C=Can

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/10/2024 Workorder: N062311
 Rep sample Temp (Deg C): 2.7 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

For:
 Checklist Completed By: AIP E Fanegof 1/11/2024

for: J Mayhew
 Reviewed By: MBC 1/11/2024

ASSET Laboratories

WORK ORDER Summary

10-Jan-24

WorkOrder: N062311

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062311-001A	MW-87-109-0124	1/10/2024 2:12:00 PM	1/12/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062311-001B			1/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062311-002A	FOLDER	1/12/2024	1/12/2024	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/12/2024	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062311

NAME	TEST METHOD
Ria Abes	EPA 218.6
Diane Jetajobe	EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02) ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R180345
ASSET #: N062311

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 1/12/2024

Method:

EPA 300.0
 EPA 7199

EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? ($r = 0.995$, $r = 0.999$ (Cr6+))	X			X		
3. ICV within $\pm 10\%$ of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within $\pm 10\%$ of expected value. ($\pm 5\%$ for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? ($< 1/2PQL$ for 300, < 0.02 for Cr6+)	X			X		
9. Is low level check at PQL within $\pm 20\%$ for 218.6/218.7/7199? $\pm 30\%$ for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. ($< 1/2$ PQL for 300, < 0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer RB 01152024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062311-001A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 5.4138 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 27.0690$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 27$$

Reviewed by:

d/Recha 1/22/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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P: 702.307.2659 F: 702.307.2691

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 10:28 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/12/24 10:41 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 10:50 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/12/24 11:00 AM	Reported
13	MB-R180345	MBLK	1	Hexavalent Chromium	01/12/24 11:13 AM	Reported
14	LCS-R180345	LCS	1	Hexavalent Chromium	01/12/24 11:22 AM	Reported
15	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 12:24 PM	Reported
16	N062272-014A	SAMP	5	Hexavalent Chromium	01/12/24 12:39 PM	Reported
17	N062272-014ADUP	DUP	5	Hexavalent Chromium	01/12/24 12:48 PM	Reported
18	N062345-005B	SAMP	1	Hexavalent Chromium	01/12/24 12:58 PM	Reported
19	N062345-005BREP	DUP	1	Hexavalent Chromium	01/12/24 1:07 PM	Reported
20	N062345-005BMS	MS	1	Hexavalent Chromium	01/12/24 1:17 PM	Reported
21	N062272-014AMS	MS	5	Hexavalent Chromium	01/12/24 1:26 PM	Reported
22	N062272-014AMSD	MSD	5	Hexavalent Chromium	01/12/24 1:35 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/12/24 1:45 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/12/24 1:54 PM	Reported
25	N062272-013A	SAMP	1	Hexavalent Chromium	01/12/24 2:04 PM	Reported
26	N062272-013AMS	MS	1	Hexavalent Chromium	01/12/24 2:13 PM	Reported
27	N062272-020A	SAMP	5	Hexavalent Chromium	01/12/24 2:23 PM	Reported
28	N062272-020AMS	MS	5	Hexavalent Chromium	01/12/24 2:32 PM	Reported
29	N062272-015A	SAMP	1	Hexavalent Chromium	01/12/24 2:42 PM	Not Reported
30	N062272-015AMS	MS	1	Hexavalent Chromium	01/12/24 2:51 PM	Not Reported
31	N062272-016A	SAMP	1	Hexavalent Chromium	01/12/24 3:01 PM	Not Reported
32	N062272-016AMS	MS	1	Hexavalent Chromium	01/12/24 3:10 PM	Not Reported
33	N062272-017A	SAMP	1	Hexavalent Chromium	01/12/24 3:19 PM	Reported
34	N062272-017AMS	MS	1	Hexavalent Chromium	01/12/24 3:29 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/12/24 3:38 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/12/24 3:48 PM	Reported
37	N062311-001A	SAMP	5	Hexavalent Chromium	01/12/24 3:57 PM	Reported
38	N062311-001AMS	MS	5	Hexavalent Chromium	01/12/24 4:07 PM	Reported
39	N062272-019A	SAMP	1	Hexavalent Chromium	01/12/24 4:16 PM	Not Reported
40	N062272-019AMS	MS	1	Hexavalent Chromium	01/12/24 4:26 PM	Not Reported
41	N062272-021A	SAMP	1	Hexavalent Chromium	01/12/24 4:35 PM	Reported
42	N062272-021AMS	MS	1	Hexavalent Chromium	01/12/24 4:45 PM	Reported

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062274-001A	SAMP	1	Hexavalent Chromium	01/12/24 4:54 PM	Reported
44	N062274-001AMS	MS	1	Hexavalent Chromium	01/12/24 5:06 PM	Reported
45	N062274-002A	SAMP	1	Hexavalent Chromium	01/12/24 5:17 PM	Reported
46	N062274-002AMS	MS	1	Hexavalent Chromium	01/12/24 5:26 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/12/24 5:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/12/24 5:45 PM	Reported
49	N062274-003A	SAMP	1	Hexavalent Chromium	01/12/24 5:54 PM	Reported
50	N062274-003AMS	MS	1	Hexavalent Chromium	01/12/24 6:04 PM	Reported
51	N062272-015A	SAMP	5	Hexavalent Chromium	01/12/24 6:13 PM	Not Reported
52	N062272-015AMS	MS	5	Hexavalent Chromium	01/12/24 6:23 PM	Not Reported
53	N062272-016A	SAMP	5	Hexavalent Chromium	01/12/24 6:32 PM	Not Reported
54	N062272-016AMS	MS	5	Hexavalent Chromium	01/12/24 6:42 PM	Not Reported
55	N062310-002A	SAMP	1	Hexavalent Chromium	01/12/24 6:51 PM	Reported
56	N062310-003A	SAMP	20	Hexavalent Chromium	01/12/24 7:01 PM	Reported
57	N062272-018A	SAMP	5	Hexavalent Chromium	01/12/24 7:10 PM	Not Reported
58	N062272-018AMS	MS	5	Hexavalent Chromium	01/12/24 7:20 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/12/24 7:29 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/12/24 7:39 PM	Reported
61	N062272-019A	SAMP	5	Hexavalent Chromium	01/12/24 7:48 PM	Not Reported
62	N062272-019AMS	MS	5	Hexavalent Chromium	01/12/24 7:57 PM	Not Reported
63	N062272-018A	SAMP	1	Hexavalent Chromium	01/12/24 8:07 PM	Not Reported
64	N062272-018AMS	MS	1	Hexavalent Chromium	01/12/24 8:16 PM	Not Reported
65	N062309-011A	SAMP	5	Hexavalent Chromium	01/12/24 8:26 PM	Reported
66	N062309-012A	SAMP	1	Hexavalent Chromium	01/12/24 8:35 PM	Reported
67	N062309-013A	SAMP	1	Hexavalent Chromium	01/12/24 8:45 PM	Reported
68	N062310-001A	SAMP	1	Hexavalent Chromium	01/12/24 8:54 PM	Reported
69	MB-R180346	MBLK	1	Hexavalent Chromium	01/12/24 9:04 PM	Reported
70	LCS-R180346	LCS	1	Hexavalent Chromium	01/12/24 9:13 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/12/24 9:23 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/12/24 9:32 PM	Reported
73	N062310-016A	SAMP	5	Hexavalent Chromium	01/12/24 9:41 PM	Reported
74	N062310-016AMS	MS	5	Hexavalent Chromium	01/12/24 9:51 PM	Reported
75	N062310-016AMSD	MSD	5	Hexavalent Chromium	01/12/24 10:00 PM	Reported
76	N062310-019A	SAMP	20	Hexavalent Chromium	01/12/24 10:10 PM	Reported
77	N062310-019AMS	MS	20	Hexavalent Chromium	01/12/24 10:19 PM	Reported
78	N062310-019AMSD	MSD	20	Hexavalent Chromium	01/12/24 10:29 PM	Reported
79	N062310-005A	SAMP	1	Hexavalent Chromium	01/12/24 10:38 PM	Reported
80	N062310-005ADUP	DUP	1	Hexavalent Chromium	01/12/24 10:48 PM	Reported
81	N062310-006A	SAMP	1	Hexavalent Chromium	01/12/24 10:57 PM	Reported
82	N062310-007A	SAMP	1	Hexavalent Chromium	01/12/24 11:07 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/12/24 11:16 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/12/24 11:26 PM	Reported

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062310-008A	SAMP	1	Hexavalent Chromium	01/12/24 11:35 PM	Reported
86	N062310-009A	SAMP	1	Hexavalent Chromium	01/12/24 11:44 PM	Reported
87	N062310-010A	SAMP	1	Hexavalent Chromium	01/12/24 11:54 PM	Reported
88	N062310-011A	SAMP	1	Hexavalent Chromium	01/13/24 12:03 AM	Reported
89	N062310-012A	SAMP	5	Hexavalent Chromium	01/13/24 12:13 AM	Reported
90	N062310-013A	SAMP	5	Hexavalent Chromium	01/13/24 12:22 AM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/13/24 12:32 AM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/13/24 12:41 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Jan/24 11:55:15
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/12/2024 10:28	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/12/2024 10:41	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		01/12/2024 10:50	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/12/2024 11:00	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/12/2024 11:13	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/12/2024 11:22	Finished	LCS @5ppb, IWST-231228B
15	PQL@0.2ppb.CCV2,	1	1000	Unknown		01/12/2024 12:24	Finished	PQL @ 0.2ppb
16	N062272-014A,SAMP	2	1000	Unknown		01/12/2024 12:39	Finished	SAMP,2>10 mL
17	N062272-014ADUP,E	3	1000	Unknown		01/12/2024 12:48	Finished	DUP,2>10 mL
18	N062345-005B,SAMP	4	1000	Unknown		01/12/2024 12:58	Finished	SAMP,10 mL
19	N062345-005BREP,E	5	1000	Unknown		01/12/2024 13:07	Finished	REP,10 mL
20	N062345-005BMS,MS	6	1000	Unknown		01/12/2024 13:17	Finished	MS (1ppb), IWST-231228B,1>
21	N062272-014AMS,MS	7	1000	Unknown		01/12/2024 13:26	Finished	MS (5ppb), IWST-231228B,2>
22	N062272-014AMSD,N	8	1000	Unknown		01/12/2024 13:35	Finished	MSD (5ppb), IWST-231228B,2>
23	CCV-2.CCV1,1,	9	1000	Unknown		01/12/2024 13:45	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		01/12/2024 13:54	Finished	CCB R231030A
25	N062272-013A,SAMP	11	1000	Unknown		01/12/2024 14:04	Finished	SAMP,10 mL
26	N062272-013AMS,MS	12	1000	Unknown		01/12/2024 14:13	Finished	MS (1ppb), IWST-231228B,1>
27	N062272-020A,SAMP	13	1000	Unknown		01/12/2024 14:23	Finished	SAMP,2>10 mL
28	N062272-020AMS,MS	14	1000	Unknown		01/12/2024 14:32	Finished	MS (5ppb), IWST-231228B,2>
29	N062272-015A,SAMP	15	1000	Unknown		01/12/2024 14:42	Finished	SAMP,10 mL
30	N062272-015AMS,MS	16	1000	Unknown		01/12/2024 14:51	Finished	MS (1ppb), IWST-231228B,1>
31	N062272-016A,SAMP	17	1000	Unknown		01/12/2024 15:01	Finished	SAMP,10 mL
32	N062272-016AMS,MS	18	1000	Unknown		01/12/2024 15:10	Finished	MS (1ppb), IWST-231228B,1>
33	N062272-017A,SAMP	19	1000	Unknown		01/12/2024 15:19	Finished	SAMP,10 mL
34	N062272-017AMS,MS	20	1000	Unknown		01/12/2024 15:29	Finished	MS (1ppb), IWST-231228B,1>
35	CCV-3.CCV,1,	21	1000	Unknown		01/12/2024 15:38	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	22	1000	Unknown		01/12/2024 15:48	Finished	CCB R231030A
37	N062311-001A,SAMP	23	1000	Unknown		01/12/2024 15:57	Finished	SAMP,2>10 mL
38	N062311-001AMS,MS	24	1000	Unknown		01/12/2024 16:07	Finished	MS (5ppb), IWST-231228B,2>
39	N062272-019A,SAMP	25	1000	Unknown		01/12/2024 16:16	Finished	SAMP,10 mL
40	N062272-019AMS,MS	26	1000	Unknown		01/12/2024 16:26	Finished	MS (1ppb), IWST-231228B,1>
41	N062272-021A,SAMP	27	1000	Unknown		01/12/2024 16:35	Finished	SAMP,1>10 mL
42	N062272-021AMS,MS	28	1000	Unknown		01/12/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062274-001A,SAMP	29	1000	Unknown		01/12/2024 16:54	Finished	SAMP,10 mL
44	N062274-001AMS,MS	1	1000	Unknown		01/12/2024 17:06	Finished	MS (1ppb), IWST-231228B,10r
45	N062274-002A,SAMP	2	1000	Unknown		01/12/2024 17:17	Finished	SAMP,10 mL
46	N062274-002AMS,MS	3	1000	Unknown		01/12/2024 17:26	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	4	1000	Unknown		01/12/2024 17:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	5	1000	Unknown		01/12/2024 17:45	Finished	CCB R231030A
49	N062274-003A,SAMP	6	1000	Unknown		01/12/2024 17:54	Finished	DUP,0.5>10 mL
50	N062274-003AMS,MS	7	1000	Unknown		01/12/2024 18:04	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-015A,SAMP	8	1000	Unknown		01/12/2024 18:13	Finished	SAMP,2>10 mL
52	N062272-015AMS,MS	9	1000	Unknown		01/12/2024 18:23	Finished	MS (1ppb), IWST-231228B,2>
53	N062272-016A,SAMP	10	1000	Unknown		01/12/2024 18:32	Finished	SAMP,2>10 mL
54	N062272-016AMS,MS	11	1000	Unknown		01/12/2024 18:42	Finished	MS (1ppb), IWST-231228B,2>
55	N062310-002A,SAMP	12	1000	Unknown		01/12/2024 18:51	Finished	SAMP,10 mL
56	N062310-003A,SAMP	13	1000	Unknown		01/12/2024 19:01	Finished	SAMP,2>10 mL
57	N062272-018A,SAMP	14	1000	Unknown		01/12/2024 19:10	Finished	SAMP,2>10 mL
58	N062272-018AMS,MS	15	1000	Unknown		01/12/2024 19:20	Finished	MS (1ppb), IWST-231228B,2>
59	CCV-5.CCV,1,	16	1000	Unknown		01/12/2024 19:29	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	17	1000	Unknown		01/12/2024 19:39	Finished	CCB R231227C

61	N062272-019A,SAMF	18	1000	Unknown	01/12/2024 19:48	Finished	SAMP,2>10 mL
62	N062272-019AMS,MS	19	1000	Unknown	01/12/2024 19:57	Finished	MS (1ppb), IWST-231228B,2>1
63	N062272-018A,SAMF	20	1000	Unknown	01/12/2024 20:07	Finished	SAMP,10 mL
64	N062272-018AMS,MS	21	1000	Unknown	01/12/2024 20:16	Finished	MS (1ppb), IWST-231228B,1>1
65	N062309-011A,SAMF	22	1000	Unknown	01/12/2024 20:26	Finished	SAMP,2>10 mL
66	N062309-012A,SAMF	23	1000	Unknown	01/12/2024 20:35	Finished	SAMP,10 mL
67	N062309-013A,SAMF	24	1000	Unknown	01/12/2024 20:45	Finished	SAMP,10 mL
68	N062310-001A,SAMF	25	1000	Unknown	01/12/2024 20:54	Finished	SAMP,10 mL
69	MB-2,MBLK,1,	26	1000	Unknown	01/12/2024 21:04	Finished	MB R231227C
70	LCS-2,LCS,1,	27	1000	Unknown	01/12/2024 21:13	Finished	LCS @5ppb, IWST-231228B
71	CCV-6,CCV1,1,	28	1000	Unknown	01/12/2024 21:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown	01/12/2024 21:32	Finished	CCB R231227C
73	N062310-016A,SAMF	30	1000	Unknown	01/12/2024 21:41	Finished	SAMP,2>10 mL
74	N062310-016AMS,MS	31	1000	Unknown	01/12/2024 21:51	Finished	MS (5ppb), IWST-231228B,2>1
75	N062310-016AMSD,MS	32	1000	Unknown	01/12/2024 22:00	Finished	MSD (5ppb), IWST-231228B,2>1
76	N062310-019A,SAMF	33	1000	Unknown	01/12/2024 22:10	Finished	SAMP,0.5>10 mL
77	N062310-019AMS,MS	34	1000	Unknown	01/12/2024 22:19	Finished	MS (5ppb), IWST-231228B,0.5>1
78	N062310-019AMSD,MS	35	1000	Unknown	01/12/2024 22:29	Finished	MSD (5ppb), IWST-231228B,0.5>1
79	N062310-005A,SAMF	36	1000	Unknown	01/12/2024 22:38	Finished	SAMP,10 mL
80	N062310-005ADUP,1,	37	1000	Unknown	01/12/2024 22:48	Finished	DUP,10 mL
81	N062310-006A,SAMF	38	1000	Unknown	01/12/2024 22:57	Finished	SAMP,10 mL
82	N062310-007A,SAMF	39	1000	Unknown	01/12/2024 23:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown	01/12/2024 23:16	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown	01/12/2024 23:26	Finished	CCB R231227C
85	N062310-008A,SAMF	42	1000	Unknown	01/12/2024 23:35	Finished	SAMP,10 mL
86	N062310-009A,SAMF	43	1000	Unknown	01/12/2024 23:44	Finished	SAMP,10 mL
87	N062310-010A,SAMF	44	1000	Unknown	01/12/2024 23:54	Finished	SAMP,10 mL
88	N062310-011A,SAMF	45	1000	Unknown	01/13/2024 00:03	Finished	SAMP,10 mL
89	N062310-012A,SAMF	46	1000	Unknown	01/13/2024 00:13	Finished	SAMP,2>10 mL
90	N062310-013A,SAMF	47	1000	Unknown	01/13/2024 00:22	Finished	SAMP,2>10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown	01/13/2024 00:32	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown	01/13/2024 00:41	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown	01/13/2024 00:51	Finished	
94	Eluent: R240108A	51	1000	Unknown	n.a.	Finished	
95	PCR: R240108B	CurrentVia	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation						
Date Prepared: <u>11/11/24</u>			Reagent ID:			
Time Prepared: <u>14:08</u>			Sulfuric Acid: <u>14225</u>		Con NaOH: <u>12312285</u>	
Prepared By: <u>no</u>			Diphenylcarbazide: <u>15209</u>			
			NH4OH + NH4SO4 eluent: <u>1240105A</u>			
			NH4OH + NH4SO4 buffer: <u>1291228</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) <u>M062310-1A</u>	<u>9.02</u>	-	<u>250mL</u>	<u>250mL</u>		
2) <u>2A</u>	<u>9.31</u>	-				
3) <u>3A</u>	<u>9.46</u>	-				
4) <u>4A</u>	<u>9.45</u>	-				
5) <u>5A</u>	<u>8.84</u>	<u>9.47</u>			<u>+6</u>	
6) <u>6A</u>	<u>8.82</u>	<u>9.43</u>			<u>+6</u>	
7) <u>7A</u>	<u>8.96</u>	<u>9.40</u>			<u>+5</u>	
8) <u>8A</u>	<u>8.94</u>	<u>9.39</u>			<u>+8</u>	
9) <u>9A</u>	<u>8.51</u>	<u>9.64</u>			<u>+8</u>	
10) <u>10A</u>	<u>8.41</u>	<u>9.61</u>			<u>+8</u>	
11) <u>11A</u>	<u>8.39</u>	<u>9.60</u>			<u>+8</u>	
12) <u>12A</u>	<u>9.41</u>	-				
13) <u>13A</u>	<u>9.42</u>	-				
14) <u>14A</u>	<u>9.46</u>	-				
15) <u>15A</u>	<u>9.14</u>	-				
	<u>16A</u>	<u>9.10</u>				

Sample Preparation						
Date Prepared: <u>1/11/24</u>			Reagent ID:			
Time Prepared: <u>14:08</u>			Sulfuric Acid: <u>14225</u>		Con NaOH: <u>12312285</u>	
Prepared By: <u>no</u>			Diphenylcarbazide: <u>15209</u>			
			NH4OH + NH4SO4 eluent: <u>1240105A</u>			
			NH4OH + NH4SO4 buffer: <u>1291228</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) <u>M062310-17A</u>	<u>9.48</u>	-	<u>250mL</u>	<u>250mL</u>		
2) <u>18A</u>	<u>9.77</u>	-				
3) <u>19A</u>	<u>9.71</u>	-				
4) <u>20A</u>	<u>9.76</u>	-				
5) <u>21A</u>	<u>9.34</u>	-				
6) <u>22A</u>	<u>9.54</u>	-				
7) <u>23A</u>	<u>9.56</u>	-				
8) <u>24A</u>	<u>9.72</u>	-				
9) <u>M062311-1A</u>	<u>9.37</u>	-				
10) <u>M062312-1A</u>	<u>9.70</u>	-				
11) <u>2A</u>	<u>9.70</u>	-				
12) <u>3A</u>	<u>9.41</u>	-				
13) <u>4A</u>	<u>9.39</u>	-				
14) <u>5A</u>	<u>9.72</u>	-				
15) <u>6A</u>	<u>9.60</u>	-				
	<u>7A</u>	<u>9.52</u>				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert N00922
ORELAP Cert 4046 (EPA TO-15) 1/23/24

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ICV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620670							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5620671							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.888 0.20 5.000 0 97.8 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620677							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.193 0.20 0.2000 0 96.5 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620685							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 10.084 0.20 10.00 0 101 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620693							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.023	0.20	5.000	0	100	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620703							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.179	0.20	10.00	0	102	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCV	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620709							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.073	0.20	5.000	0	101	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ZZZZZZ	Batch ID: R180345	TestNo: EPA 218.6	Analysis Date: 1/12/2024	SeqNo: 5620715							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.380	0.20	10.00	0	104	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: ICB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5620672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180345						
Client ID: CCB	Batch ID: R180345	TestNo: EPA 218.6		Analysis Date: 1/12/2024	SeqNo: 5620716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
---------------------	----	------

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

MB-R180345	N.A.	N.A.
LCS-R180345	4.006	PASS
N062272-014A	3.981	PASS
N062272-014ADUP	3.981	PASS
N062345-005B	N.A.	N.A.
N062345-005BREP	N.A.	N.A.
N062345-005BMS	4.006	PASS
N062272-014AMS	3.981	PASS
N062272-014AMSD	3.981	PASS
N062272-013A	3.815	PASS
N062272-013AMS	3.823	PASS
N062272-020A	3.973	PASS
N062272-020AMS	3.973	PASS
N062272-016A	N.A.	N.A.
N062272-017A	N.A.	N.A.
N062272-017AMS	3.823	PASS
N062311-001A	3.990	PASS
N062311-001AMS	3.990	PASS
N062272-019A	N.A.	N.A.
N062272-021A	N.A.	N.A.

Reviewed by:

d/Recha 1/22/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

N062272-021AMS	3.998	PASS
N062274-001A	N.A.	N.A.
N062274-001AMS	3.831	PASS
N062274-002A	N.A.	N.A.
N062274-002AMS	3.815	PASS
N062274-003A	3.815	PASS
N062274-003AMS	3.831	PASS
N062272-015A	3.973	PASS
N062272-015AMS	3.973	PASS
N062272-016A	N.A.	N.A.
N062272-016AMS	3.973	PASS
N062310-002A	N.A.	N.A.
N062310-003A	4.006	PASS
N062272-018A	N.A.	N.A.
N062272-018AMS	3.973	PASS
N062272-019A	3.990	PASS
N062272-019AMS	3.981	PASS
N062272-018A	N.A.	N.A.
N062309-011A	3.998	PASS
N062309-012A	N.A.	N.A.

Reviewed by:

d/Rocha 1/22/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.006	
CCV-3	4.006	
CCV-4	4.015	
CCV-5	4.015	
CCV-6	4.006	
CCV-7	4.006	
CCV-8	4.006	

Average 4.009
Actual RT Window 3.929 - 4.089
Applied RT Window 3.809 - 4.209

N062309-013A	N.A.	N.A.
N062310-001A	3.990	PASS
MB-R180346	N.A.	N.A.
LCS-R180346	4.006	PASS
N062310-016A	3.998	PASS
N062310-016AMS	4.006	PASS
N062310-016AMSD	3.998	PASS
N062310-019A	3.998	PASS
N062310-019AMS	3.998	PASS
N062310-019AMSD	3.998	PASS
N062310-005A	3.931	PASS
N062310-005ADUP	3.931	PASS
N062310-006A	N.A.	N.A.
N062310-007A	N.A.	N.A.
N062310-008A	3.973	PASS
N062310-009A	3.990	PASS
N062310-010A	3.965	PASS
N062310-011A	3.981	PASS
N062310-012A	3.998	PASS
N062310-013A	3.998	PASS

Reviewed by:

d/Rocha 1/22/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INITIAL CALIBRATION



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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

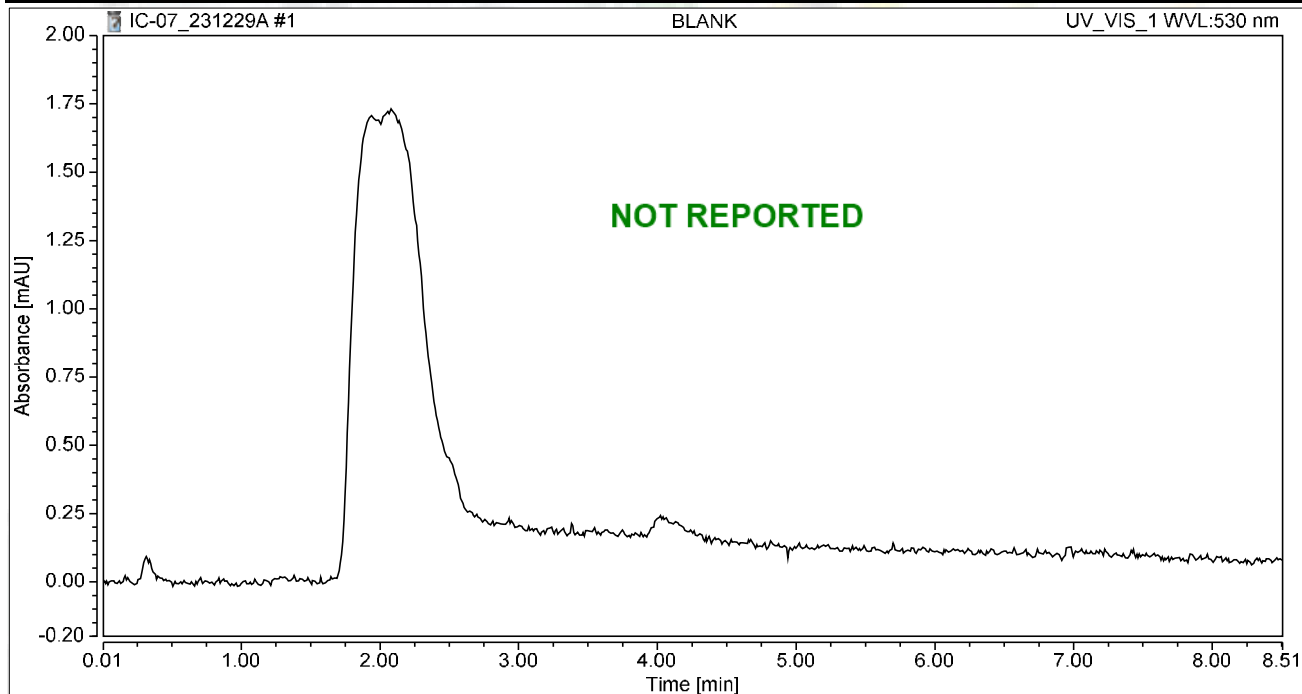
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

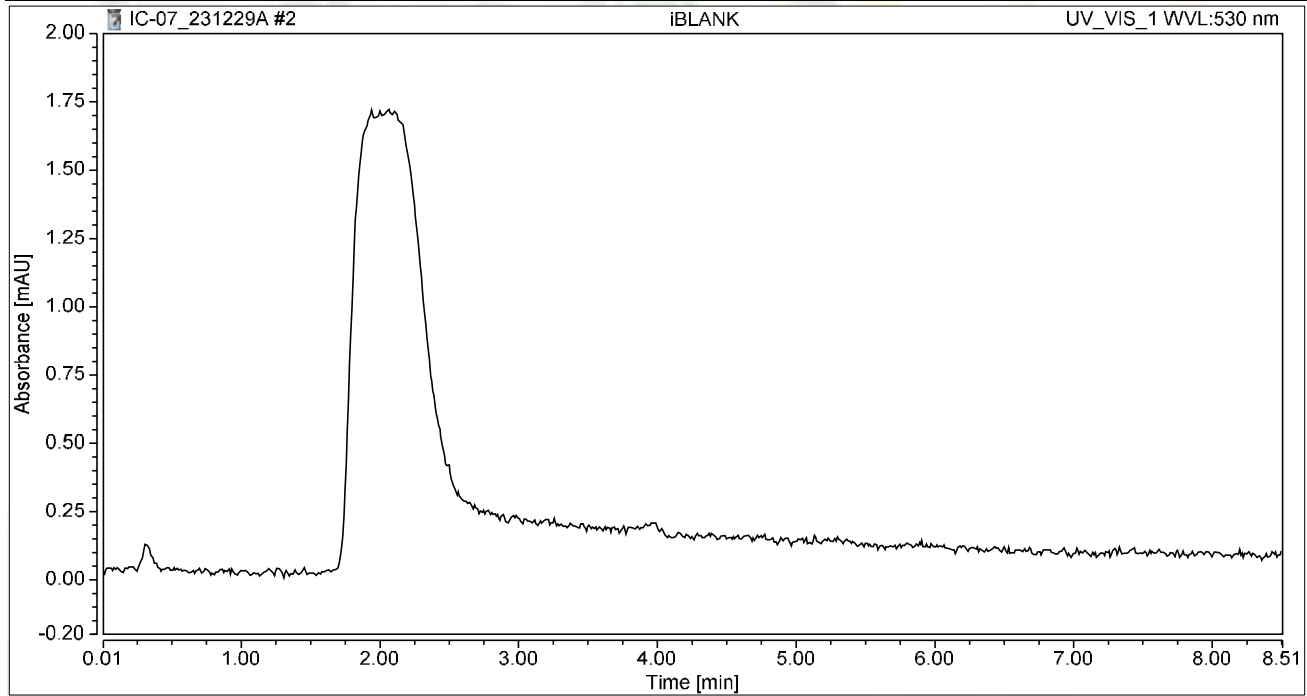
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Denny

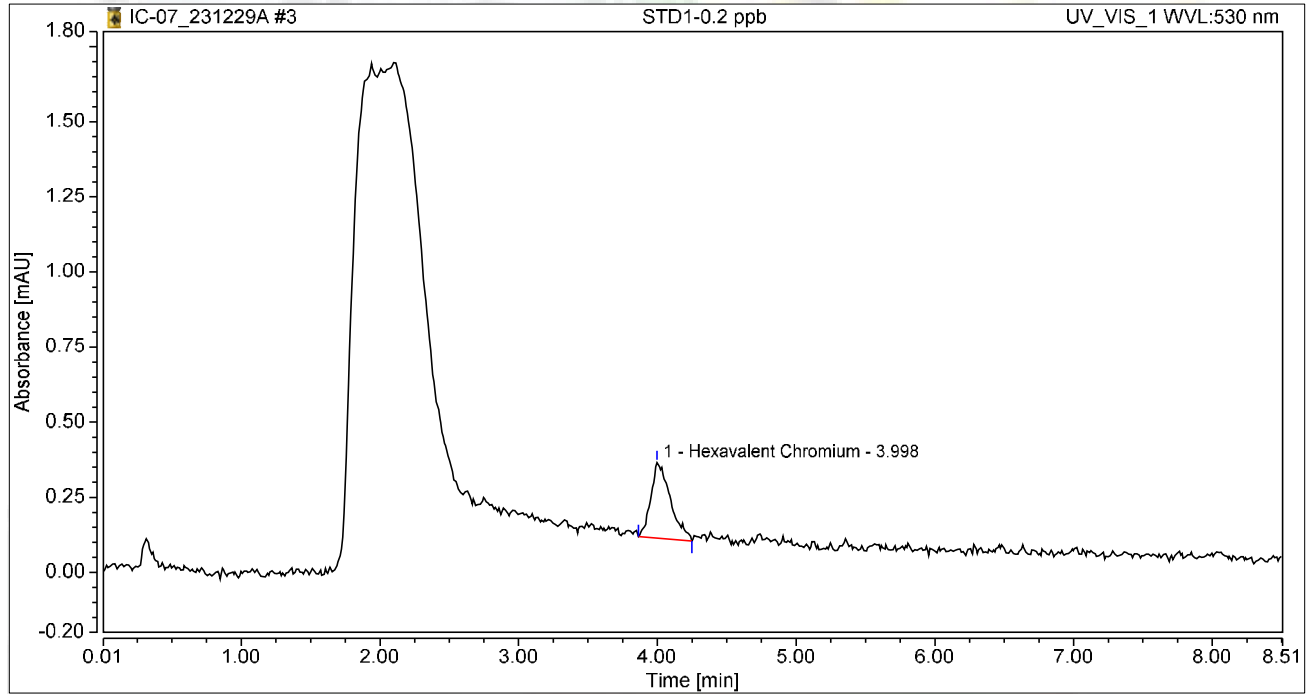
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

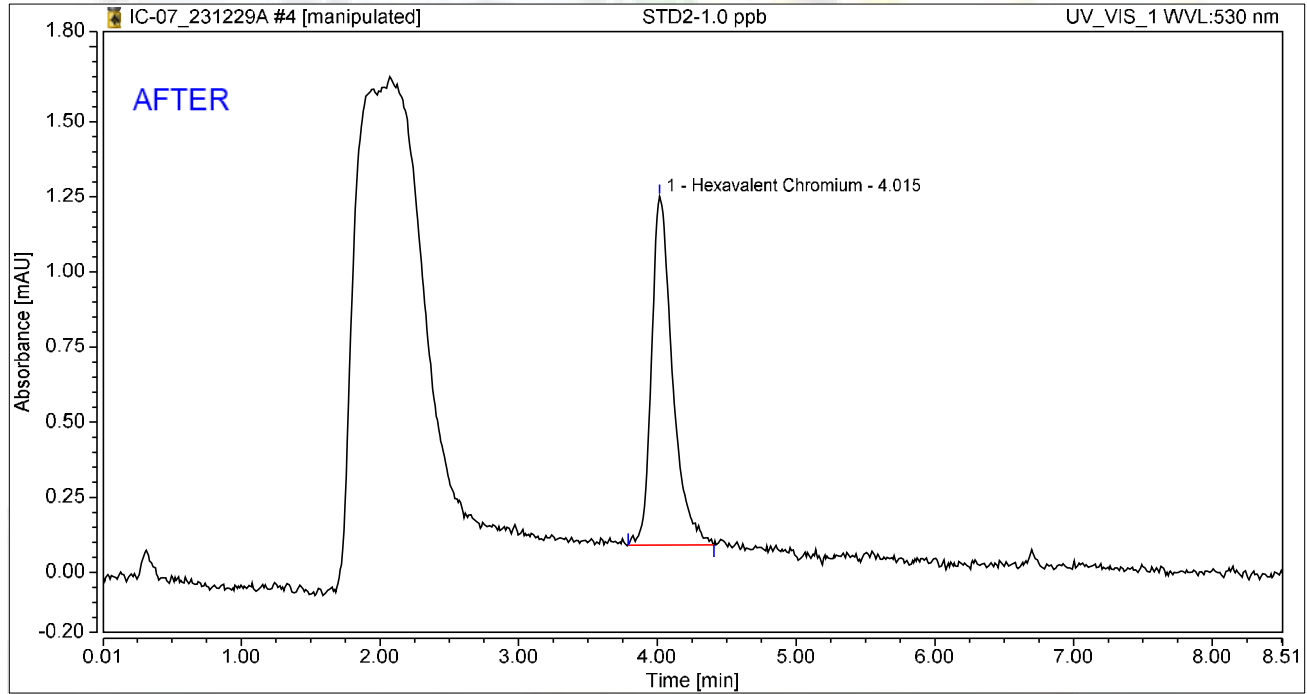
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

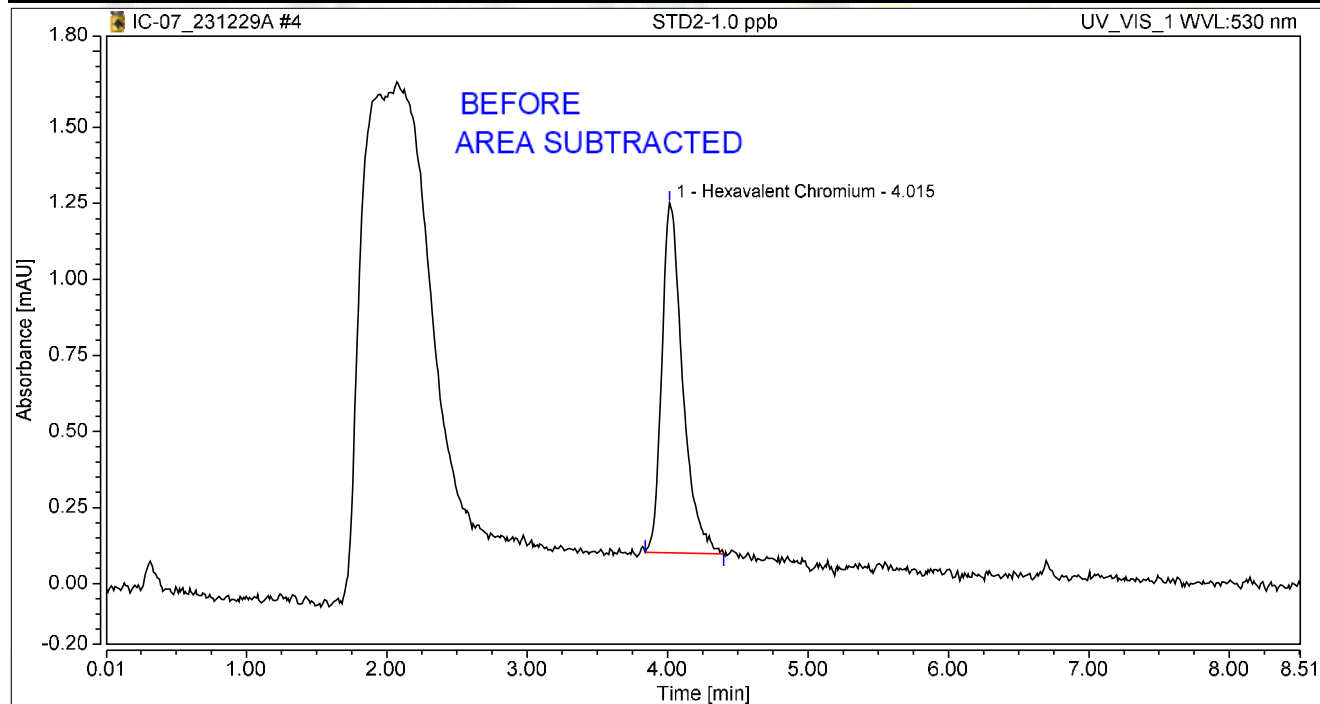
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

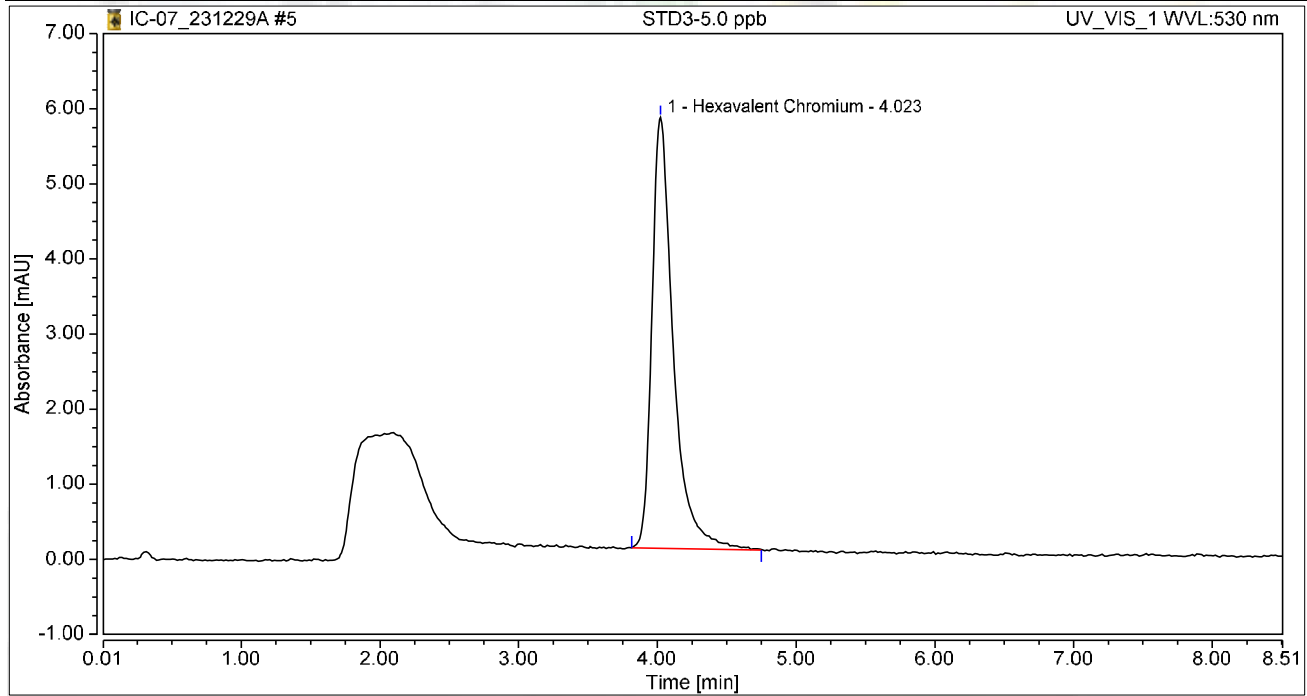
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

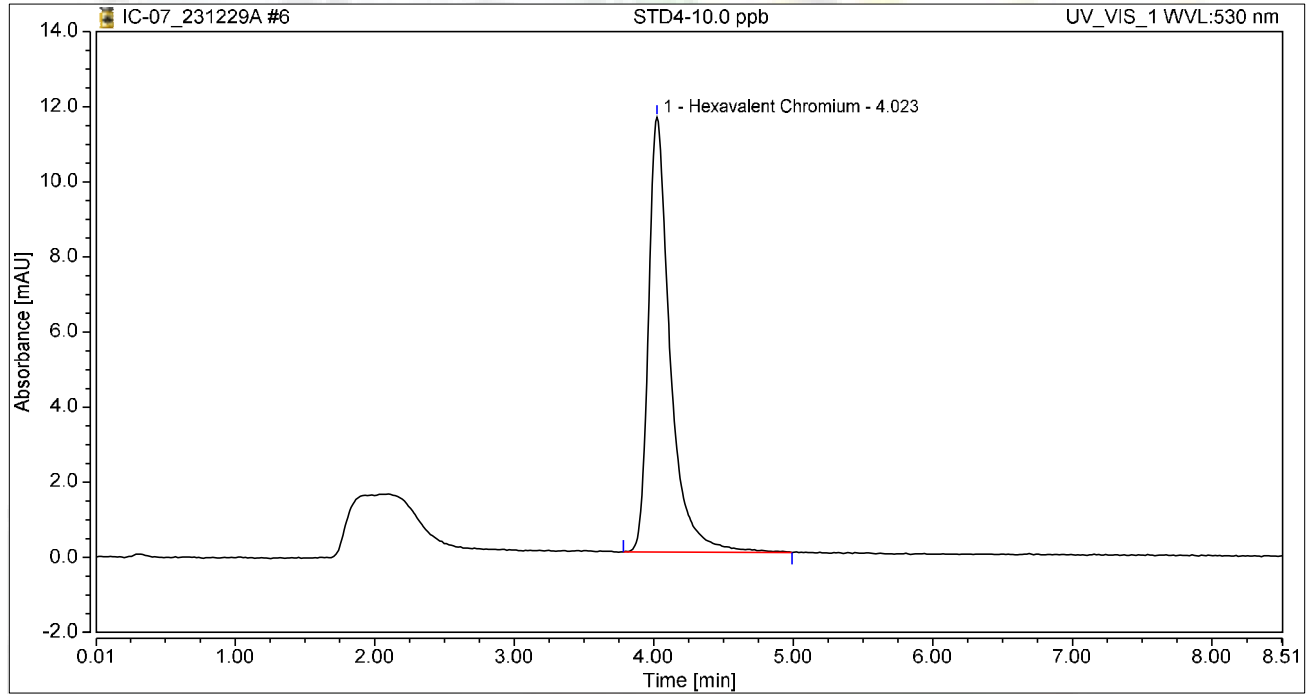
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

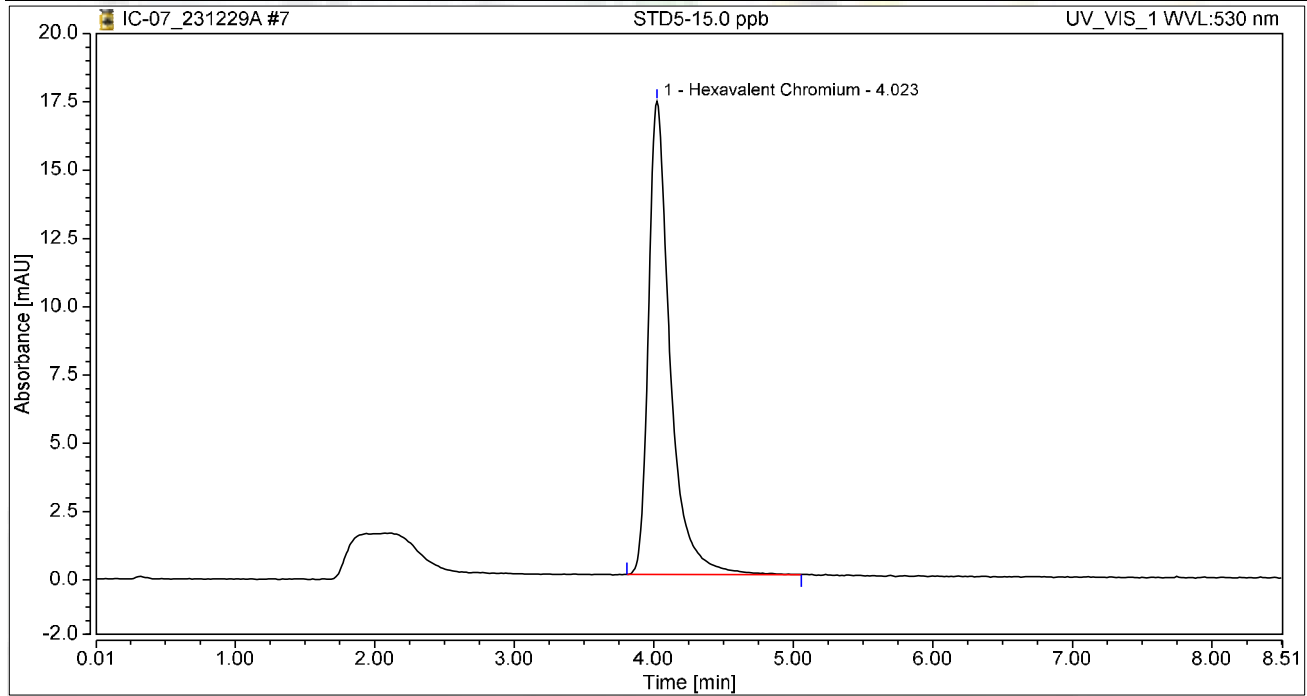
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

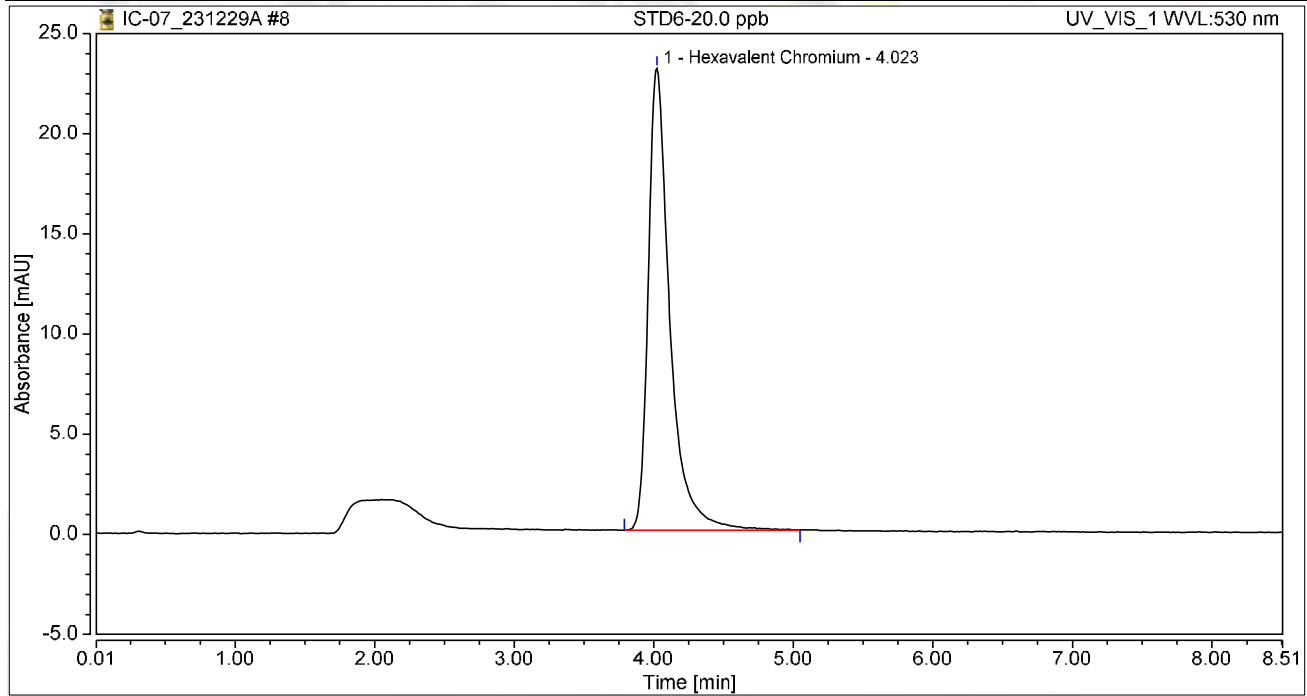
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

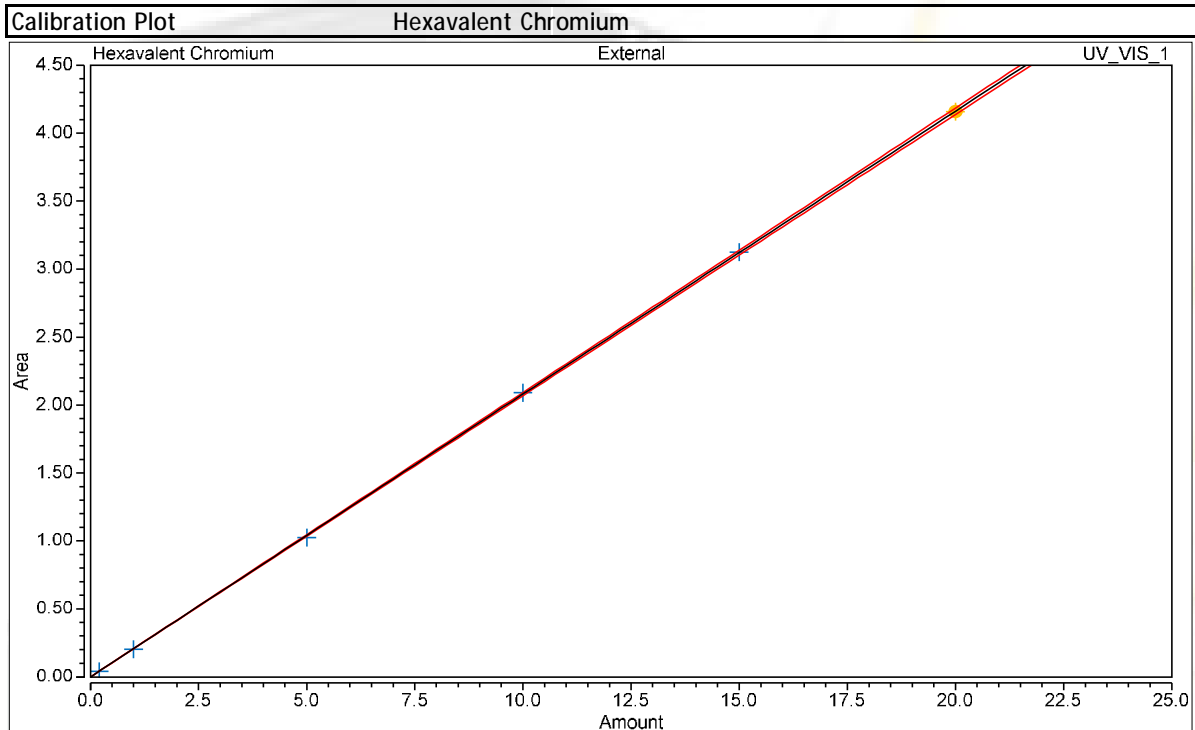
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



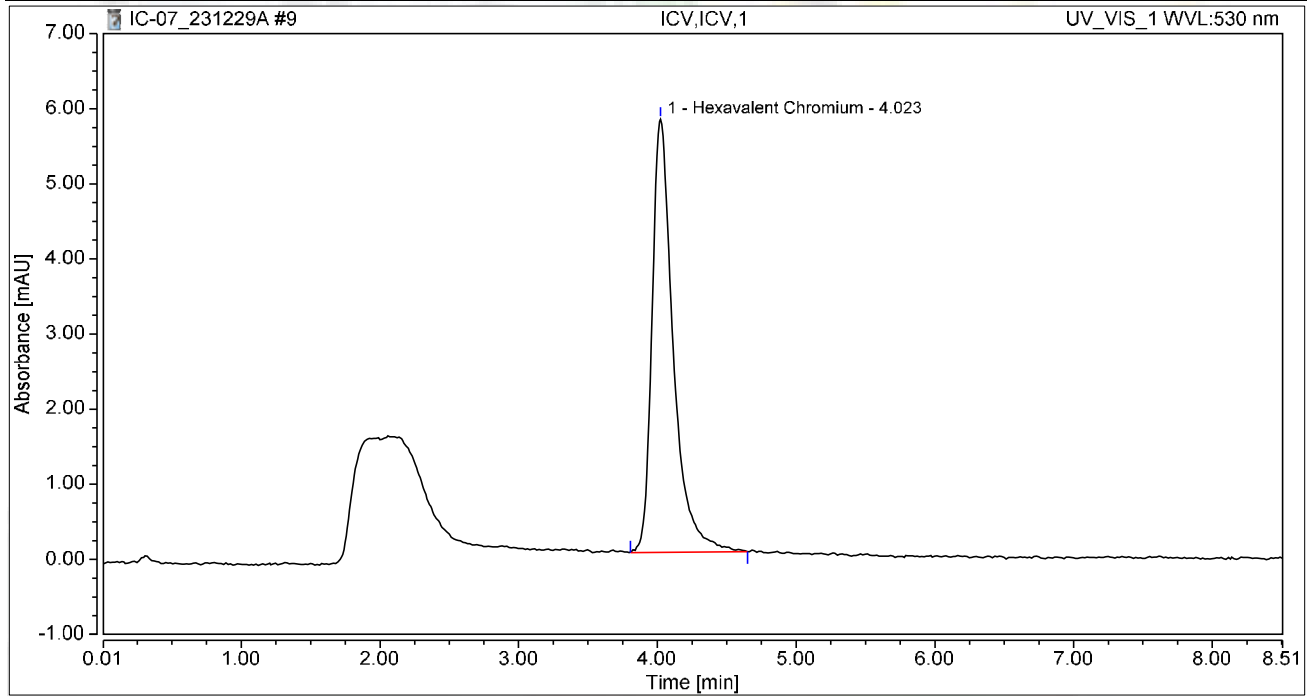
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



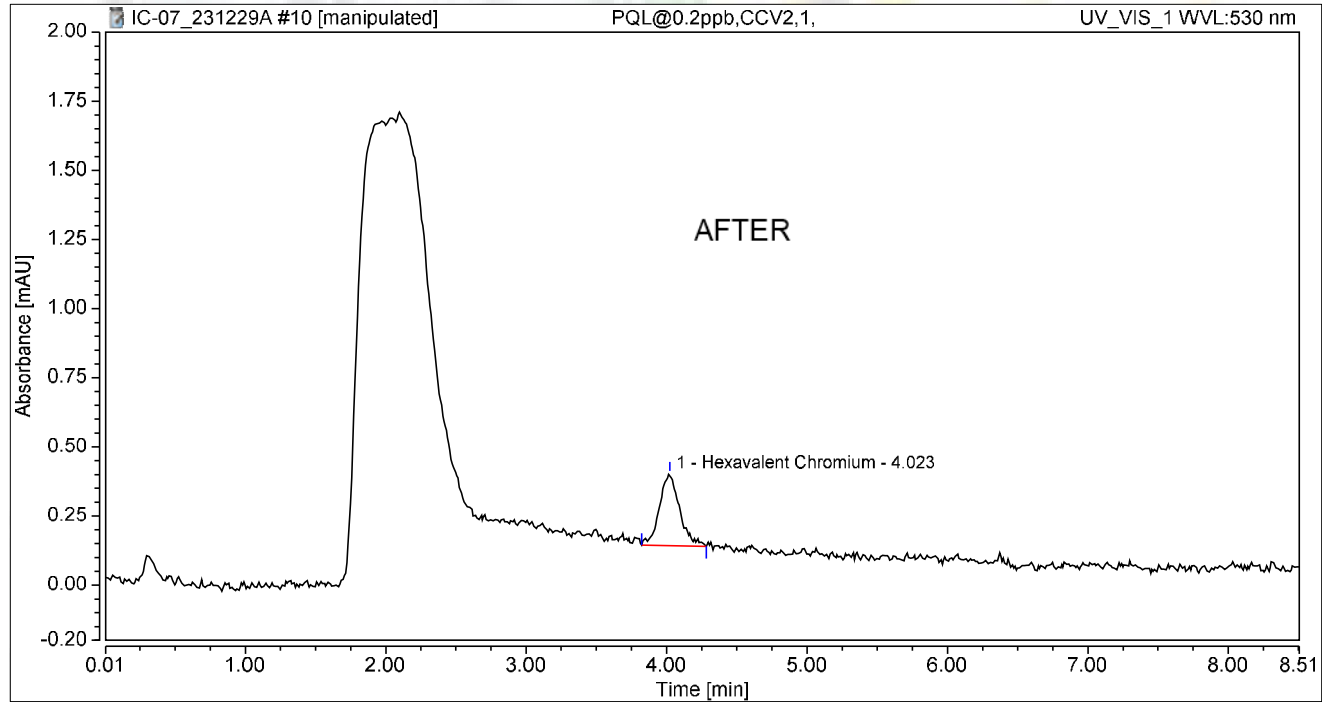
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

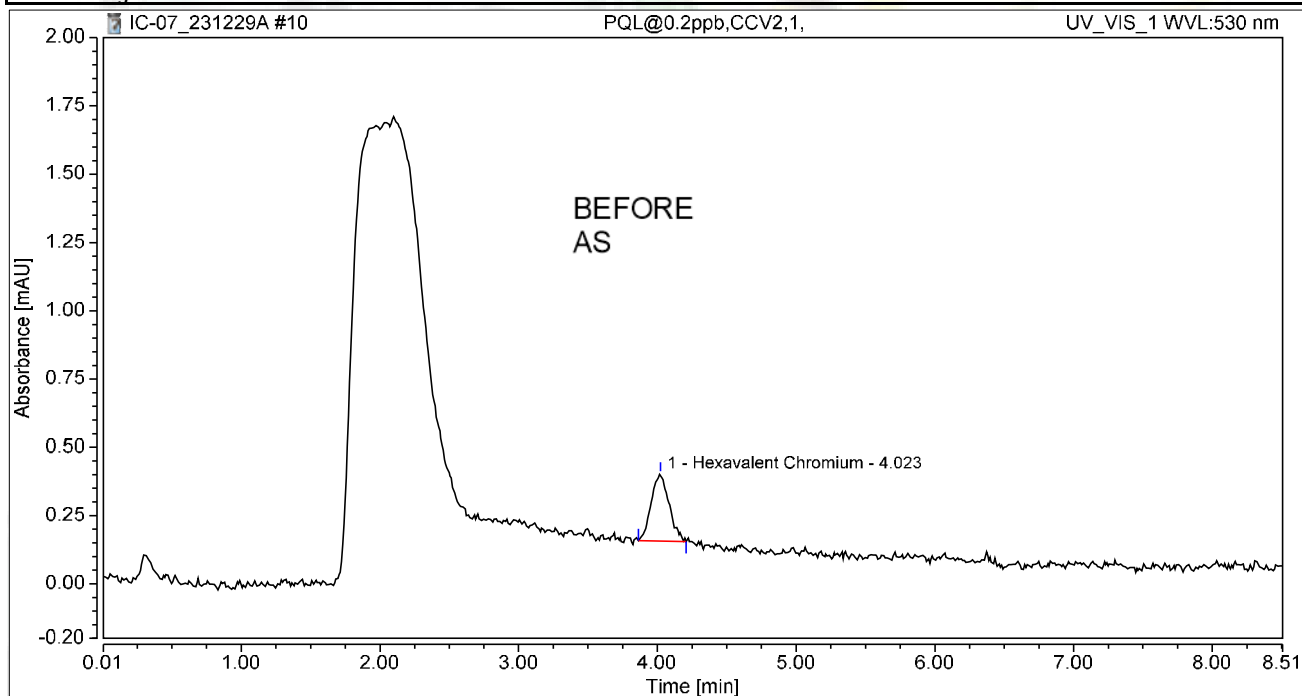
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

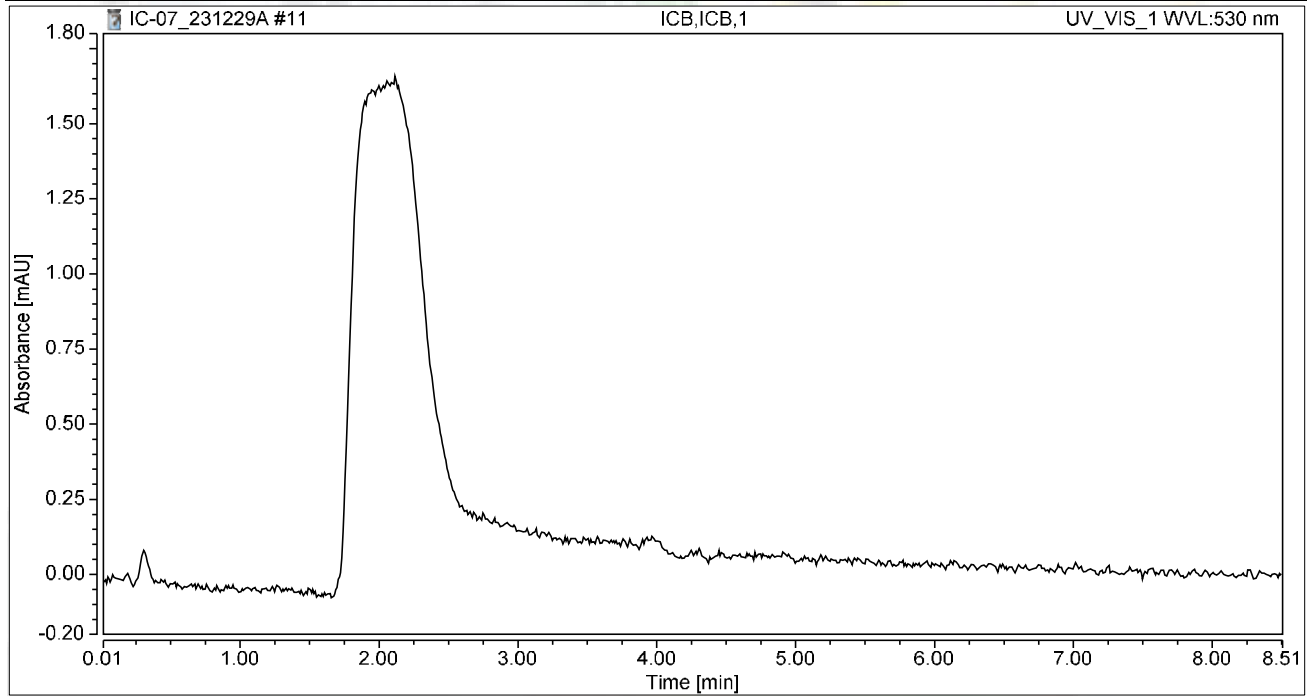
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240112A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/12/24 10:28 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/12/24 10:41 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 10:50 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/12/24 11:00 AM	Reported
13	MB-R180345	MBLK	1	Hexavalent Chromium	01/12/24 11:13 AM	Reported
14	LCS-R180345	LCS	1	Hexavalent Chromium	01/12/24 11:22 AM	Reported
15	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/12/24 12:24 PM	Reported
16	N062272-014A	SAMP	5	Hexavalent Chromium	01/12/24 12:39 PM	Reported
17	N062272-014ADUP	DUP	5	Hexavalent Chromium	01/12/24 12:48 PM	Reported
18	N062345-005B	SAMP	1	Hexavalent Chromium	01/12/24 12:58 PM	Reported
19	N062345-005BREP	DUP	1	Hexavalent Chromium	01/12/24 1:07 PM	Reported
20	N062345-005BMS	MS	1	Hexavalent Chromium	01/12/24 1:17 PM	Reported
21	N062272-014AMS	MS	5	Hexavalent Chromium	01/12/24 1:26 PM	Reported
22	N062272-014AMSD	MSD	5	Hexavalent Chromium	01/12/24 1:35 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/12/24 1:45 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/12/24 1:54 PM	Reported
25	N062272-013A	SAMP	1	Hexavalent Chromium	01/12/24 2:04 PM	Reported
26	N062272-013AMS	MS	1	Hexavalent Chromium	01/12/24 2:13 PM	Reported
27	N062272-020A	SAMP	5	Hexavalent Chromium	01/12/24 2:23 PM	Reported
28	N062272-020AMS	MS	5	Hexavalent Chromium	01/12/24 2:32 PM	Reported
29	N062272-015A	SAMP	1	Hexavalent Chromium	01/12/24 2:42 PM	Not Reported
30	N062272-015AMS	MS	1	Hexavalent Chromium	01/12/24 2:51 PM	Not Reported
31	N062272-016A	SAMP	1	Hexavalent Chromium	01/12/24 3:01 PM	Not Reported
32	N062272-016AMS	MS	1	Hexavalent Chromium	01/12/24 3:10 PM	Not Reported
33	N062272-017A	SAMP	1	Hexavalent Chromium	01/12/24 3:19 PM	Reported
34	N062272-017AMS	MS	1	Hexavalent Chromium	01/12/24 3:29 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/12/24 3:38 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/12/24 3:48 PM	Reported
37	N062311-001A	SAMP	5	Hexavalent Chromium	01/12/24 3:57 PM	Reported
38	N062311-001AMS	MS	5	Hexavalent Chromium	01/12/24 4:07 PM	Reported
39	N062272-019A	SAMP	1	Hexavalent Chromium	01/12/24 4:16 PM	Not Reported
40	N062272-019AMS	MS	1	Hexavalent Chromium	01/12/24 4:26 PM	Not Reported
41	N062272-021A	SAMP	1	Hexavalent Chromium	01/12/24 4:35 PM	Reported
42	N062272-021AMS	MS	1	Hexavalent Chromium	01/12/24 4:45 PM	Reported

Reviewed by:

JRB 1/15/2024

INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062274-001A	SAMP	1	Hexavalent Chromium	01/12/24 4:54 PM	Reported
44	N062274-001AMS	MS	1	Hexavalent Chromium	01/12/24 5:06 PM	Reported
45	N062274-002A	SAMP	1	Hexavalent Chromium	01/12/24 5:17 PM	Reported
46	N062274-002AMS	MS	1	Hexavalent Chromium	01/12/24 5:26 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/12/24 5:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/12/24 5:45 PM	Reported
49	N062274-003A	SAMP	1	Hexavalent Chromium	01/12/24 5:54 PM	Reported
50	N062274-003AMS	MS	1	Hexavalent Chromium	01/12/24 6:04 PM	Reported
51	N062272-015A	SAMP	5	Hexavalent Chromium	01/12/24 6:13 PM	Not Reported
52	N062272-015AMS	MS	5	Hexavalent Chromium	01/12/24 6:23 PM	Not Reported
53	N062272-016A	SAMP	5	Hexavalent Chromium	01/12/24 6:32 PM	Not Reported
54	N062272-016AMS	MS	5	Hexavalent Chromium	01/12/24 6:42 PM	Not Reported
55	N062310-002A	SAMP	1	Hexavalent Chromium	01/12/24 6:51 PM	Reported
56	N062310-003A	SAMP	20	Hexavalent Chromium	01/12/24 7:01 PM	Reported
57	N062272-018A	SAMP	5	Hexavalent Chromium	01/12/24 7:10 PM	Not Reported
58	N062272-018AMS	MS	5	Hexavalent Chromium	01/12/24 7:20 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/12/24 7:29 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/12/24 7:39 PM	Reported
61	N062272-019A	SAMP	5	Hexavalent Chromium	01/12/24 7:48 PM	Not Reported
62	N062272-019AMS	MS	5	Hexavalent Chromium	01/12/24 7:57 PM	Not Reported
63	N062272-018A	SAMP	1	Hexavalent Chromium	01/12/24 8:07 PM	Not Reported
64	N062272-018AMS	MS	1	Hexavalent Chromium	01/12/24 8:16 PM	Not Reported
65	N062309-011A	SAMP	5	Hexavalent Chromium	01/12/24 8:26 PM	Reported
66	N062309-012A	SAMP	1	Hexavalent Chromium	01/12/24 8:35 PM	Reported
67	N062309-013A	SAMP	1	Hexavalent Chromium	01/12/24 8:45 PM	Reported
68	N062310-001A	SAMP	1	Hexavalent Chromium	01/12/24 8:54 PM	Reported
69	MB-R180346	MBLK	1	Hexavalent Chromium	01/12/24 9:04 PM	Reported
70	LCS-R180346	LCS	1	Hexavalent Chromium	01/12/24 9:13 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/12/24 9:23 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/12/24 9:32 PM	Reported
73	N062310-016A	SAMP	5	Hexavalent Chromium	01/12/24 9:41 PM	Reported
74	N062310-016AMS	MS	5	Hexavalent Chromium	01/12/24 9:51 PM	Reported
75	N062310-016AMSD	MSD	5	Hexavalent Chromium	01/12/24 10:00 PM	Reported
76	N062310-019A	SAMP	20	Hexavalent Chromium	01/12/24 10:10 PM	Reported
77	N062310-019AMS	MS	20	Hexavalent Chromium	01/12/24 10:19 PM	Reported
78	N062310-019AMSD	MSD	20	Hexavalent Chromium	01/12/24 10:29 PM	Reported
79	N062310-005A	SAMP	1	Hexavalent Chromium	01/12/24 10:38 PM	Reported
80	N062310-005ADUP	DUP	1	Hexavalent Chromium	01/12/24 10:48 PM	Reported
81	N062310-006A	SAMP	1	Hexavalent Chromium	01/12/24 10:57 PM	Reported
82	N062310-007A	SAMP	1	Hexavalent Chromium	01/12/24 11:07 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/12/24 11:16 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/12/24 11:26 PM	Reported



INJECTION LOG: 240112A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062310-008A	SAMP	1	Hexavalent Chromium	01/12/24 11:35 PM	Reported
86	N062310-009A	SAMP	1	Hexavalent Chromium	01/12/24 11:44 PM	Reported
87	N062310-010A	SAMP	1	Hexavalent Chromium	01/12/24 11:54 PM	Reported
88	N062310-011A	SAMP	1	Hexavalent Chromium	01/13/24 12:03 AM	Reported
89	N062310-012A	SAMP	5	Hexavalent Chromium	01/13/24 12:13 AM	Reported
90	N062310-013A	SAMP	5	Hexavalent Chromium	01/13/24 12:22 AM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/13/24 12:32 AM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/13/24 12:41 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Jan/24 11:55:15
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/12/2024 10:28	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/12/2024 10:41	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/12/2024 10:50	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/12/2024 11:00	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/12/2024 11:13	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/12/2024 11:22	Finished	LCS @5ppb, IWST-231228B
15	PQL@0.2ppb,CCV2,	1	1000	Unknown		01/12/2024 12:24	Finished	PQL @ 0.2ppb
16	N062272-014A,SAMP	2	1000	Unknown		01/12/2024 12:39	Finished	SAMP,2>10 mL
17	N062272-014ADUP,D	3	1000	Unknown		01/12/2024 12:48	Finished	DUP,2>10 mL
18	N062345-005B,SAMP	4	1000	Unknown		01/12/2024 12:58	Finished	SAMP,10 mL
19	N062345-005BREP,D	5	1000	Unknown		01/12/2024 13:07	Finished	REP,10 mL
20	N062345-005BMS,MS	6	1000	Unknown		01/12/2024 13:17	Finished	MS (1ppb), IWST-231228B,1>
21	N062272-014AMS,MS	7	1000	Unknown		01/12/2024 13:26	Finished	MS (5ppb), IWST-231228B,2>
22	N062272-014AMSD,N	8	1000	Unknown		01/12/2024 13:35	Finished	MSD (5ppb), IWST-231228B,2>
23	CCV-2,CCV1,1,	9	1000	Unknown		01/12/2024 13:45	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/12/2024 13:54	Finished	CCB R231030A
25	N062272-013A,SAMP	11	1000	Unknown		01/12/2024 14:04	Finished	SAMP,10 mL
26	N062272-013AMS,MS	12	1000	Unknown		01/12/2024 14:13	Finished	MS (1ppb), IWST-231228B,1>
27	N062272-020A,SAMP	13	1000	Unknown		01/12/2024 14:23	Finished	SAMP,2>10 mL
28	N062272-020AMS,MS	14	1000	Unknown		01/12/2024 14:32	Finished	MS (5ppb), IWST-231228B,2>
29	N062272-015A,SAMP	15	1000	Unknown		01/12/2024 14:42	Finished	SAMP,10 mL
30	N062272-015AMS,MS	16	1000	Unknown		01/12/2024 14:51	Finished	MS (1ppb), IWST-231228B,1>
31	N062272-016A,SAMP	17	1000	Unknown		01/12/2024 15:01	Finished	SAMP,10 mL
32	N062272-016AMS,MS	18	1000	Unknown		01/12/2024 15:10	Finished	MS (1ppb), IWST-231228B,1>
33	N062272-017A,SAMP	19	1000	Unknown		01/12/2024 15:19	Finished	SAMP,10 mL
34	N062272-017AMS,MS	20	1000	Unknown		01/12/2024 15:29	Finished	MS (1ppb), IWST-231228B,1>
35	CCV-3,CCV,1,	21	1000	Unknown		01/12/2024 15:38	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		01/12/2024 15:48	Finished	CCB R231030A
37	N062311-001A,SAMP	23	1000	Unknown		01/12/2024 15:57	Finished	SAMP,2>10 mL
38	N062311-001AMS,MS	24	1000	Unknown		01/12/2024 16:07	Finished	MS (5ppb), IWST-231228B,2>
39	N062272-019A,SAMP	25	1000	Unknown		01/12/2024 16:16	Finished	SAMP,10 mL
40	N062272-019AMS,MS	26	1000	Unknown		01/12/2024 16:26	Finished	MS (1ppb), IWST-231228B,1>
41	N062272-021A,SAMP	27	1000	Unknown		01/12/2024 16:35	Finished	SAMP,1>10 mL
42	N062272-021AMS,MS	28	1000	Unknown		01/12/2024 16:45	Finished	MS (5ppb), IWST-231228B,1>
43	N062274-001A,SAMP	29	1000	Unknown		01/12/2024 16:54	Finished	SAMP,10 mL
44	N062274-001AMS,MS	1	1000	Unknown		01/12/2024 17:06	Finished	MS (1ppb), IWST-231228B,10r
45	N062274-002A,SAMP	2	1000	Unknown		01/12/2024 17:17	Finished	SAMP,10 mL
46	N062274-002AMS,MS	3	1000	Unknown		01/12/2024 17:26	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	4	1000	Unknown		01/12/2024 17:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	5	1000	Unknown		01/12/2024 17:45	Finished	CCB R231030A
49	N062274-003A,SAMP	6	1000	Unknown		01/12/2024 17:54	Finished	DUP,0.5>10 mL
50	N062274-003AMS,MS	7	1000	Unknown		01/12/2024 18:04	Finished	MS (5ppb), IWST-231228B,0.5
51	N062272-015A,SAMP	8	1000	Unknown		01/12/2024 18:13	Finished	SAMP,2>10 mL
52	N062272-015AMS,MS	9	1000	Unknown		01/12/2024 18:23	Finished	MS (1ppb), IWST-231228B,2>
53	N062272-016A,SAMP	10	1000	Unknown		01/12/2024 18:32	Finished	SAMP,2>10 mL
54	N062272-016AMS,MS	11	1000	Unknown		01/12/2024 18:42	Finished	MS (1ppb), IWST-231228B,2>
55	N062310-002A,SAMP	12	1000	Unknown		01/12/2024 18:51	Finished	SAMP,10 mL
56	N062310-003A,SAMP	13	1000	Unknown		01/12/2024 19:01	Finished	SAMP,2>10 mL
57	N062272-018A,SAMP	14	1000	Unknown		01/12/2024 19:10	Finished	SAMP,2>10 mL
58	N062272-018AMS,MS	15	1000	Unknown		01/12/2024 19:20	Finished	MS (1ppb), IWST-231228B,2>
59	CCV-5,CCV,1,	16	1000	Unknown		01/12/2024 19:29	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	17	1000	Unknown		01/12/2024 19:39	Finished	CCB R231227C

61	N062272-019A,SAMF	18	1000	Unknown		01/12/2024 19:48	Finished	SAMP,2>10 mL
62	N062272-019AMS,MS	19	1000	Unknown		01/12/2024 19:57	Finished	MS (1ppb), IWST-231228B,2>1
63	N062272-018A,SAMF	20	1000	Unknown		01/12/2024 20:07	Finished	SAMP,10 mL
64	N062272-018AMS,MS	21	1000	Unknown		01/12/2024 20:16	Finished	MS (1ppb), IWST-231228B,1>1
65	N062309-011A,SAMF	22	1000	Unknown		01/12/2024 20:26	Finished	SAMP,2>10 mL
66	N062309-012A,SAMF	23	1000	Unknown		01/12/2024 20:35	Finished	SAMP,10 mL
67	N062309-013A,SAMF	24	1000	Unknown		01/12/2024 20:45	Finished	SAMP,10 mL
68	N062310-001A,SAMF	25	1000	Unknown		01/12/2024 20:54	Finished	SAMP,10 mL
69	MB-2,MBLK,1,	26	1000	Unknown		01/12/2024 21:04	Finished	MB R231227C
70	LCS-2,LCS,1,	27	1000	Unknown		01/12/2024 21:13	Finished	LCS @5ppb, IWST-231228B
71	CCV-6,CCV1,1,	28	1000	Unknown		01/12/2024 21:23	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown		01/12/2024 21:32	Finished	CCB R231227C
73	N062310-016A,SAMF	30	1000	Unknown		01/12/2024 21:41	Finished	SAMP,2>10 mL
74	N062310-016AMS,MS	31	1000	Unknown		01/12/2024 21:51	Finished	MS (5ppb), IWST-231228B,2>1
75	N062310-016AMSD,MS	32	1000	Unknown		01/12/2024 22:00	Finished	MSD (5ppb), IWST-231228B,2>1
76	N062310-019A,SAMF	33	1000	Unknown		01/12/2024 22:10	Finished	SAMP,0.5>10 mL
77	N062310-019AMS,MS	34	1000	Unknown		01/12/2024 22:19	Finished	MS (5ppb), IWST-231228B,0.5
78	N062310-019AMSD,MS	35	1000	Unknown		01/12/2024 22:29	Finished	MSD (5ppb), IWST-231228B,0.5
79	N062310-005A,SAMF	36	1000	Unknown		01/12/2024 22:38	Finished	SAMP,10 mL
80	N062310-005ADUP,DU	37	1000	Unknown		01/12/2024 22:48	Finished	DUP,10 mL
81	N062310-006A,SAMF	38	1000	Unknown		01/12/2024 22:57	Finished	SAMP,10 mL
82	N062310-007A,SAMF	39	1000	Unknown		01/12/2024 23:07	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown		01/12/2024 23:16	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown		01/12/2024 23:26	Finished	CCB R231227C
85	N062310-008A,SAMF	42	1000	Unknown		01/12/2024 23:35	Finished	SAMP,10 mL
86	N062310-009A,SAMF	43	1000	Unknown		01/12/2024 23:44	Finished	SAMP,10 mL
87	N062310-010A,SAMF	44	1000	Unknown		01/12/2024 23:54	Finished	SAMP,10 mL
88	N062310-011A,SAMF	45	1000	Unknown		01/13/2024 00:03	Finished	SAMP,10 mL
89	N062310-012A,SAMF	46	1000	Unknown		01/13/2024 00:13	Finished	SAMP,2>10 mL
90	N062310-013A,SAMF	47	1000	Unknown		01/13/2024 00:22	Finished	SAMP,2>10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown		01/13/2024 00:32	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown		01/13/2024 00:41	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown		01/13/2024 00:51	Finished	
94	Eluent: R240108A	51	1000	Unknown		n.a.	Finished	
95	PCR: R240108B	CurrentVial	1000	Unknown		n.a.	Finished	

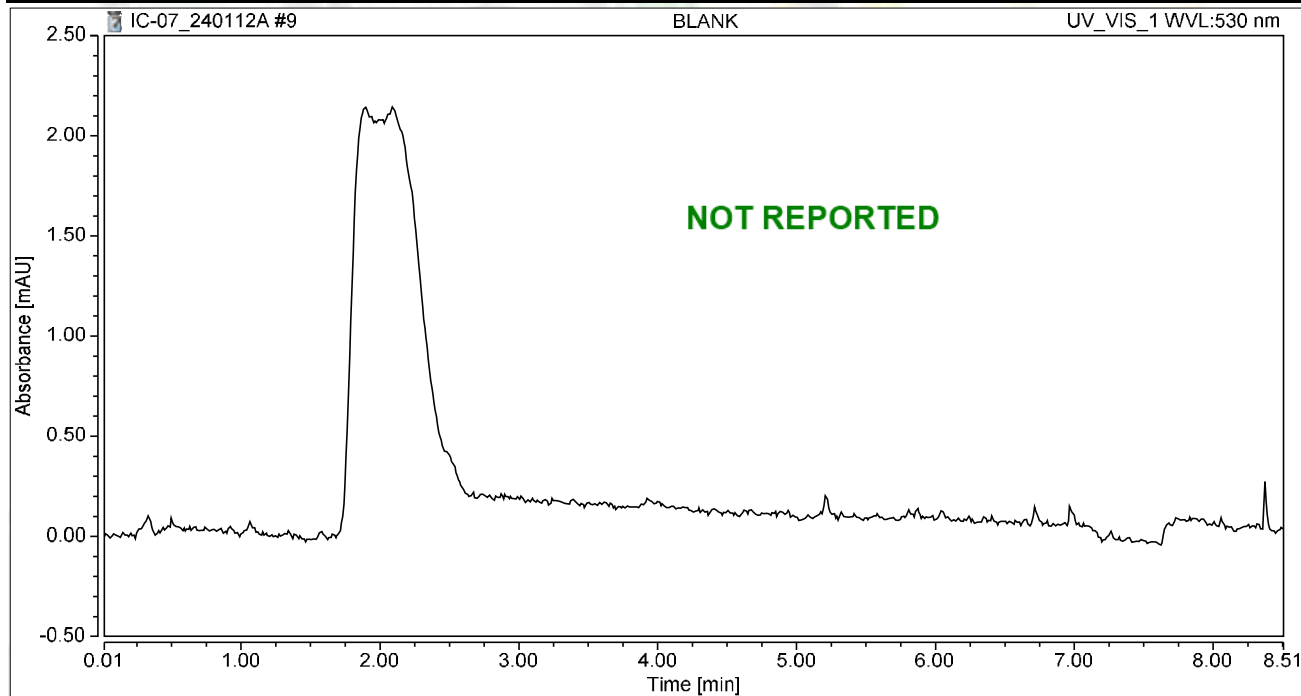


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 10:28	Sample Weight:	1.0000

Chromatogram



Integration Results

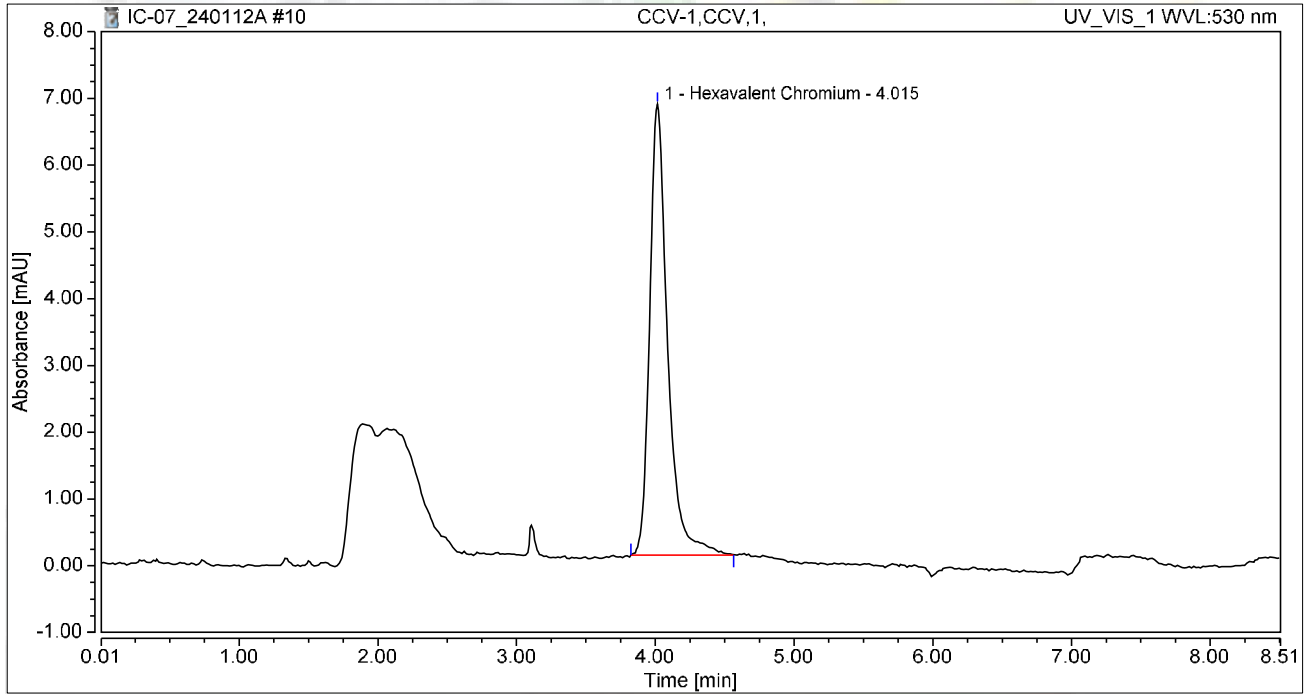
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 10:41	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.017	6.756	100.00	100.00	4.8882
Total:			1.017	6.756	100.00	100.00	

Reviewed by:

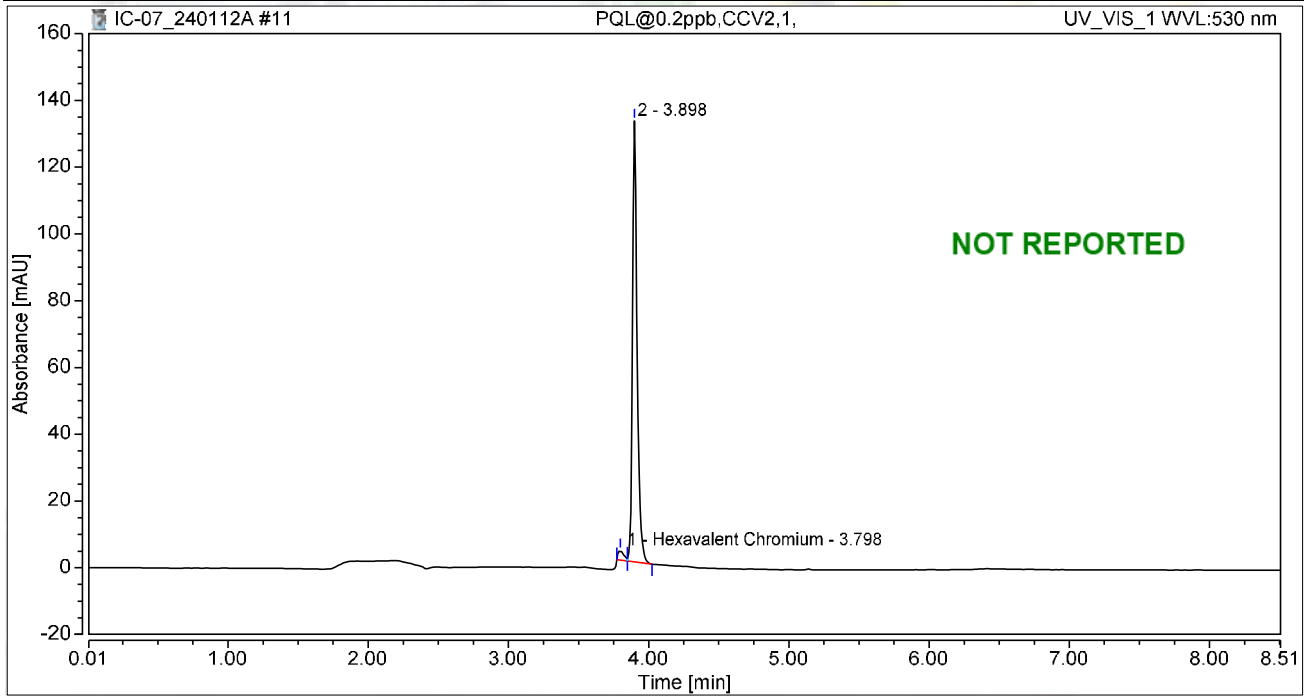
JRB 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

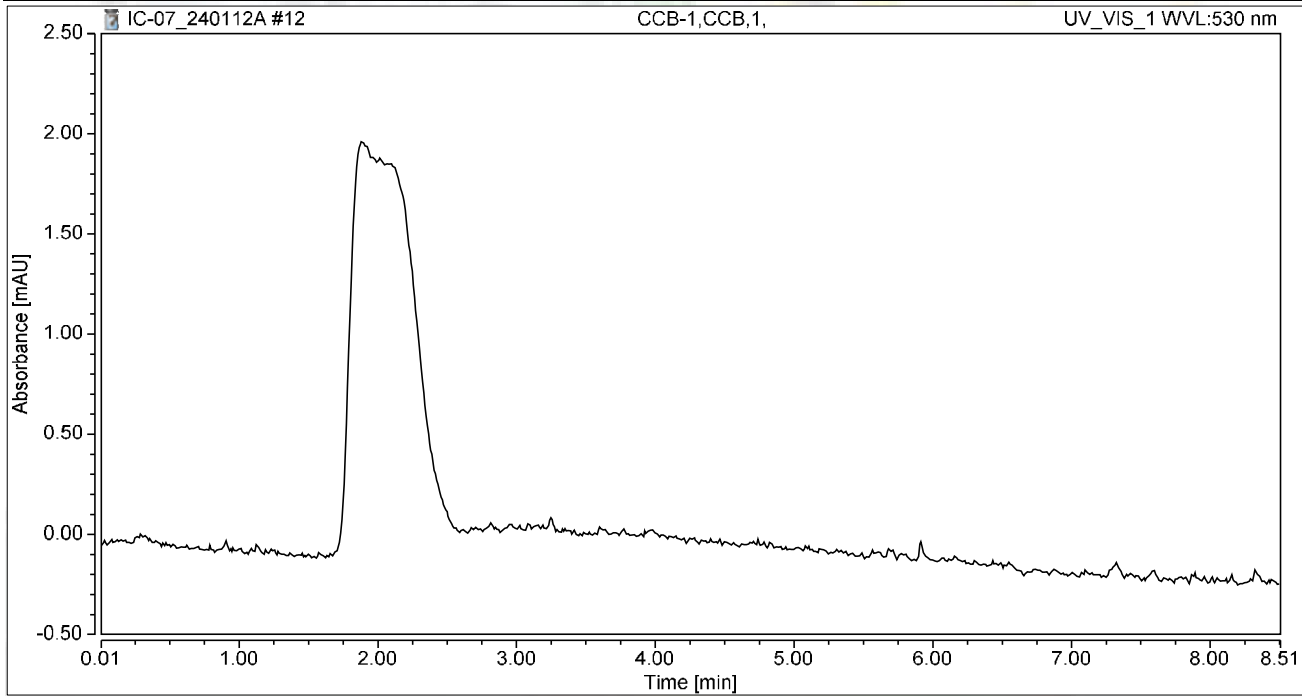
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	0.137	2.872	2.66	2.13	0.6565
2		3.898	4.998	132.213	97.34	97.87	n.a.
Total:			5.134	135.084	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 11:00	Sample Weight:	1.0000

Chromatogram



Integration Results

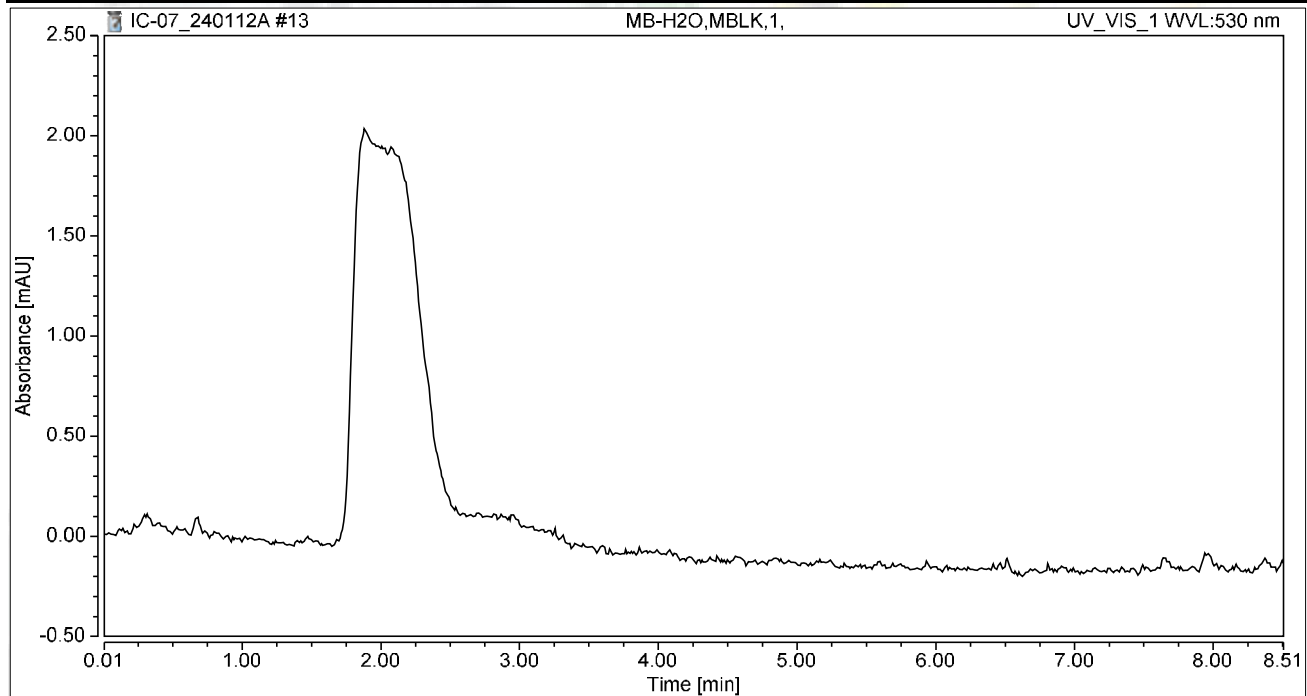
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 11:13	Sample Weight:	1.0000

Chromatogram



Integration Results

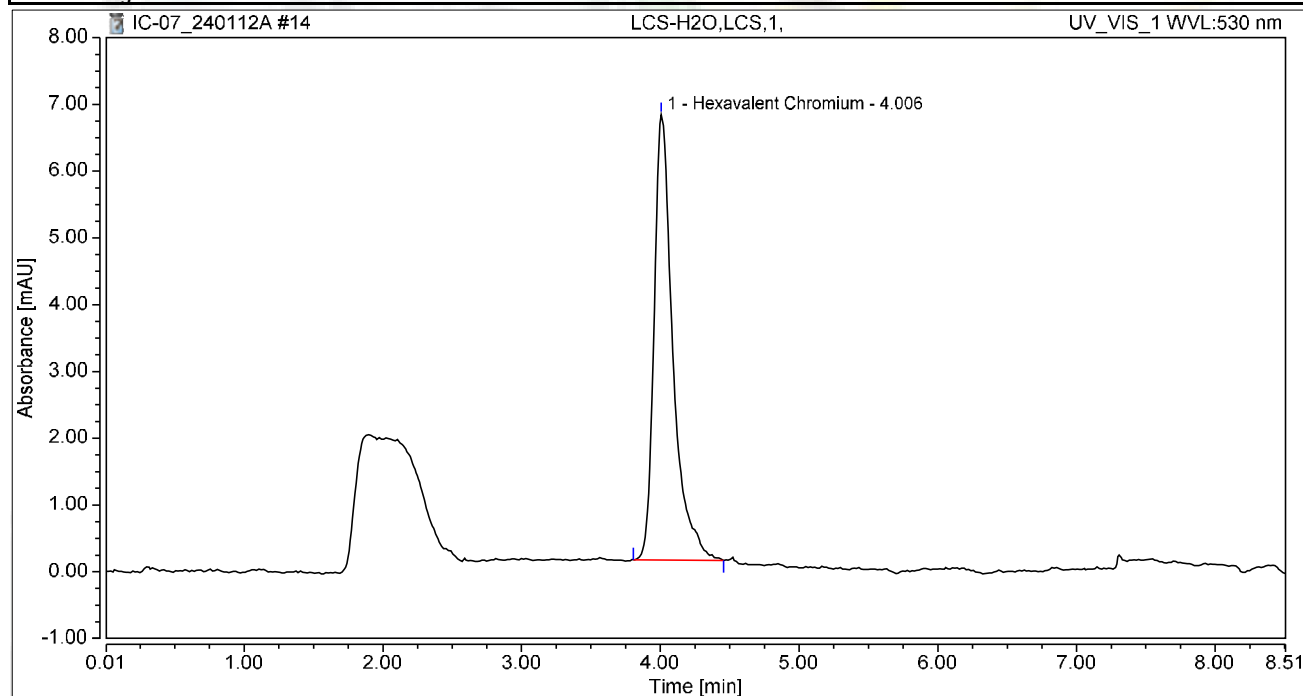
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 11:22	Sample Weight:	1.0000

Chromatogram



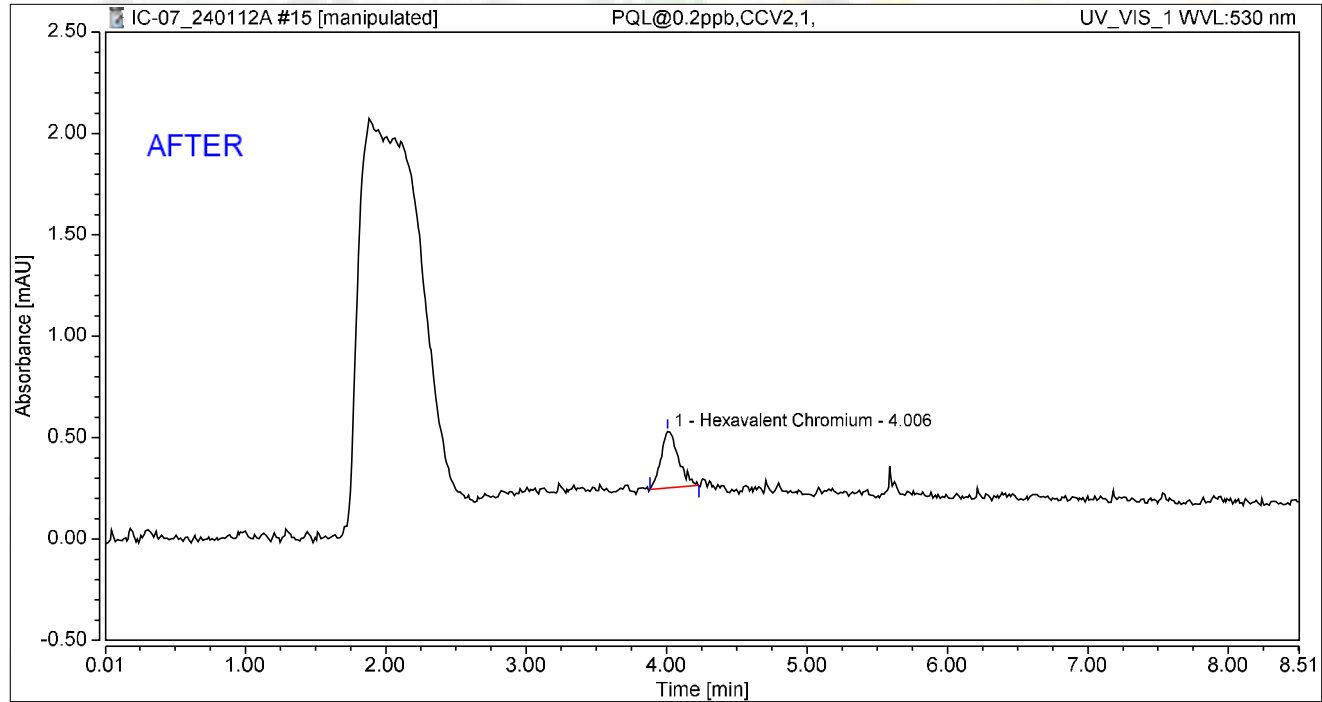
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.051	6.672	100.00	100.00	5.0523
Total:			1.051	6.672	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 12:24	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.040	0.277	100.00	100.00	0.1929
Total:			0.040	0.277	100.00	100.00	

Reviewed by:

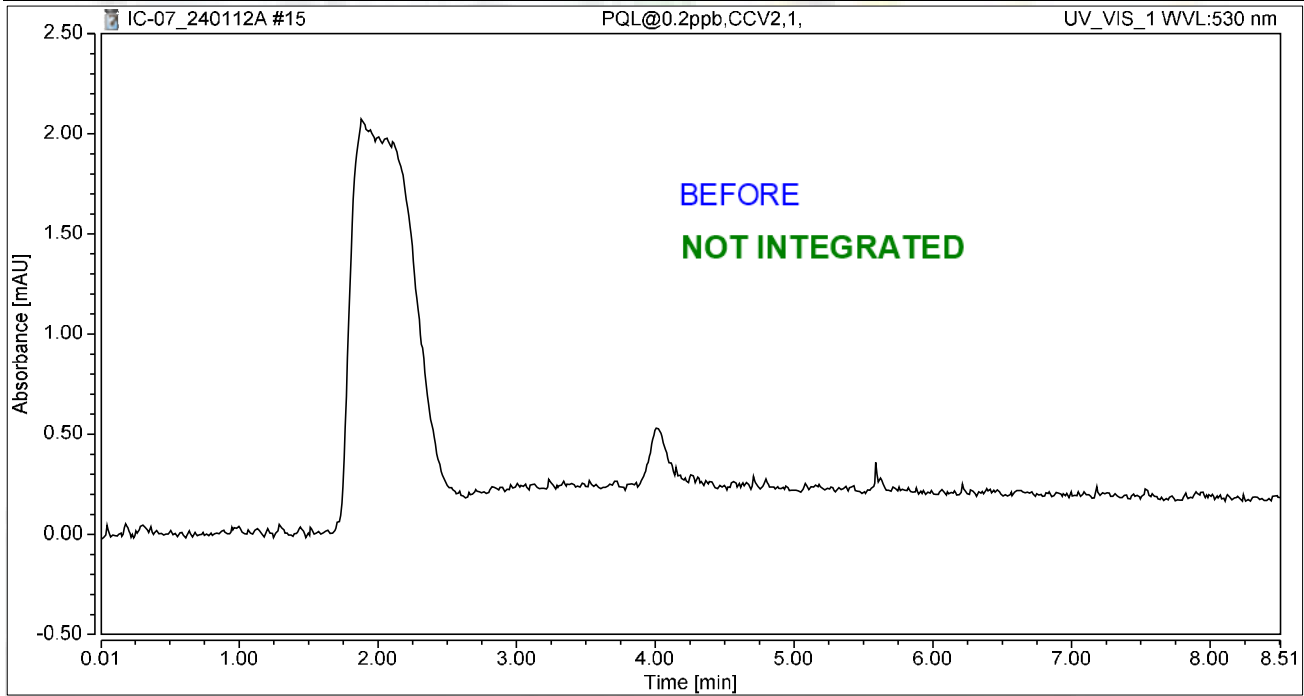
jrb 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

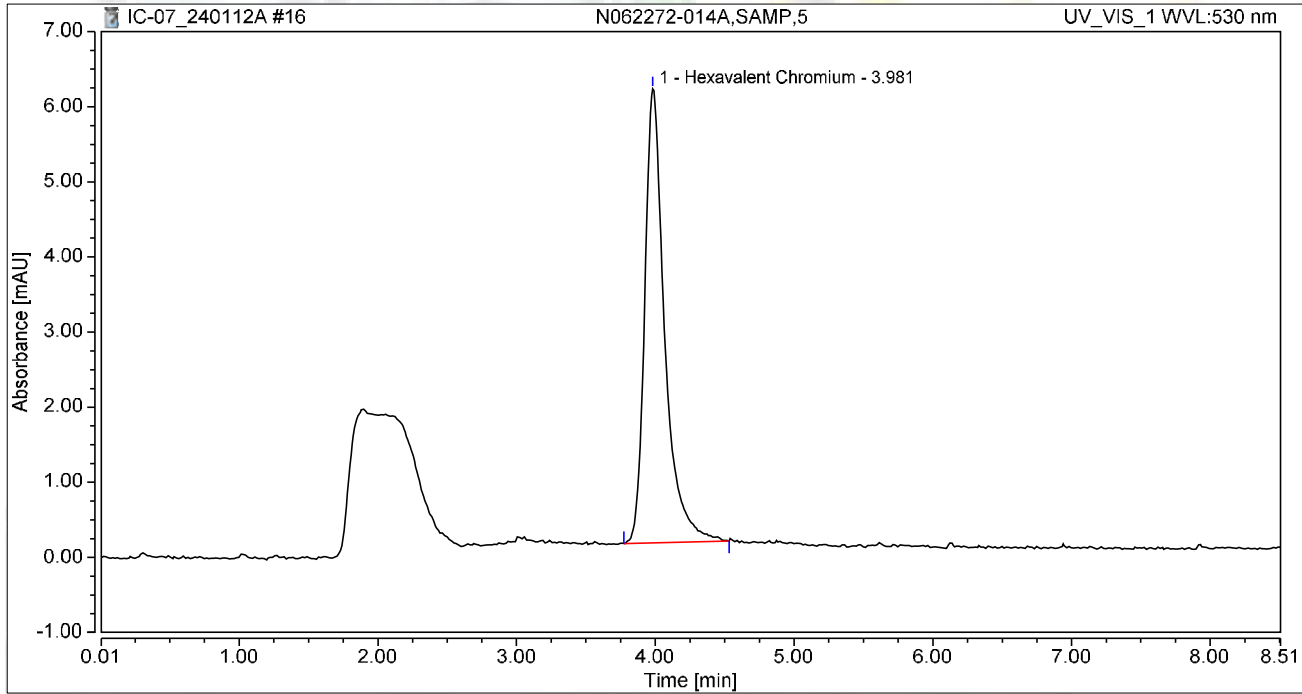
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:39	Sample Weight:	1.0000

Chromatogram



Integration Results

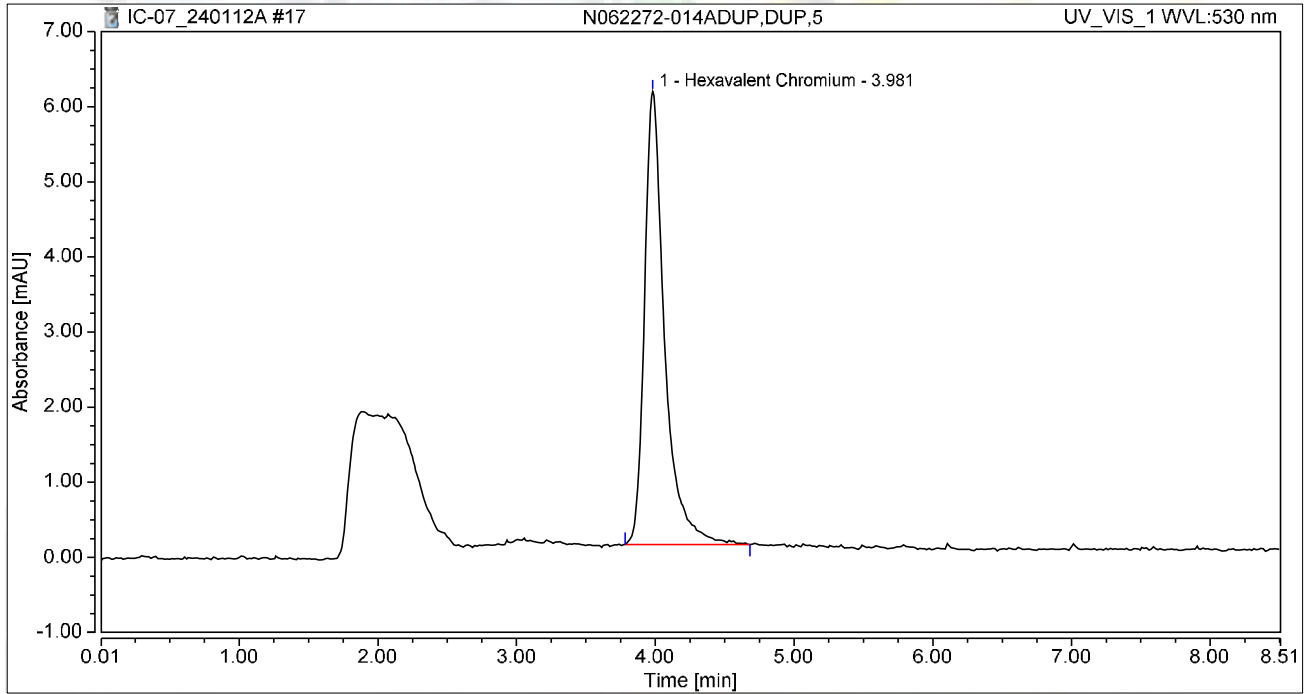
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.009	6.047	100.00	100.00	4.8495
Total:			1.009	6.047	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-014ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:48	Sample Weight:	1.0000

Chromatogram



Integration Results

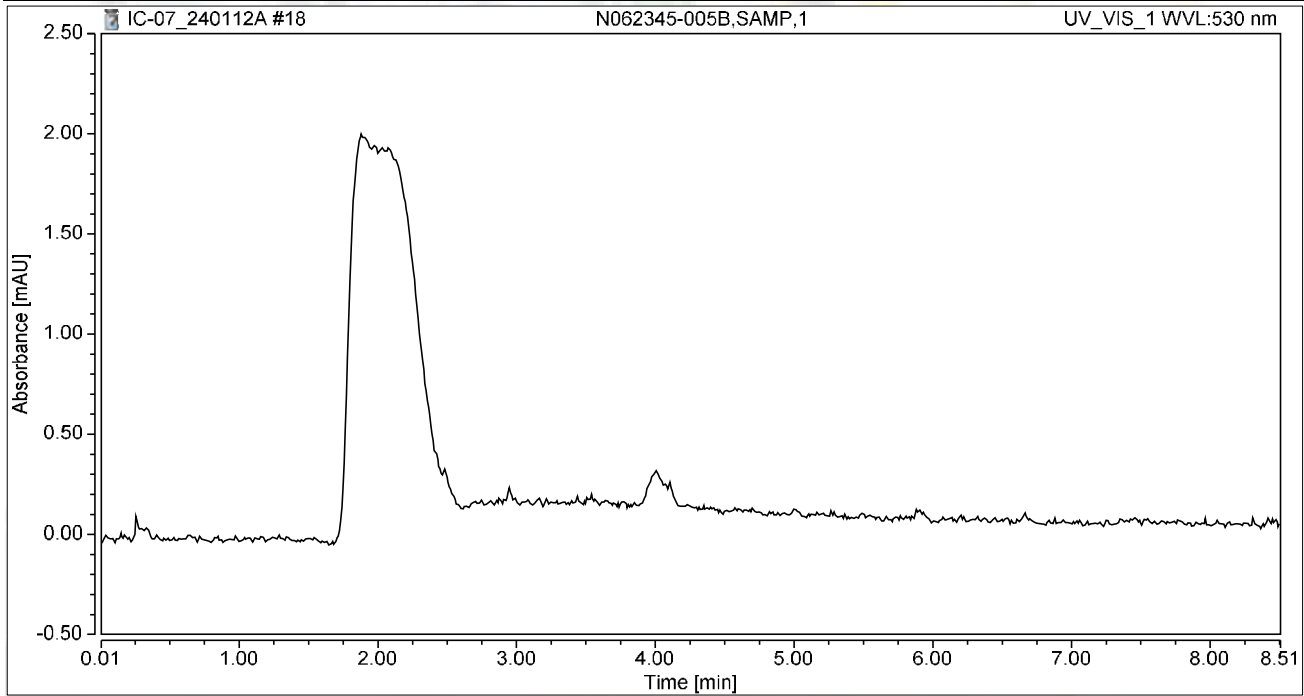
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	1.017	6.029	100.00	100.00	4.8862
Total:			1.017	6.029	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062345-005B,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 12:58	Sample Weight:	1.0000

Chromatogram



Integration Results

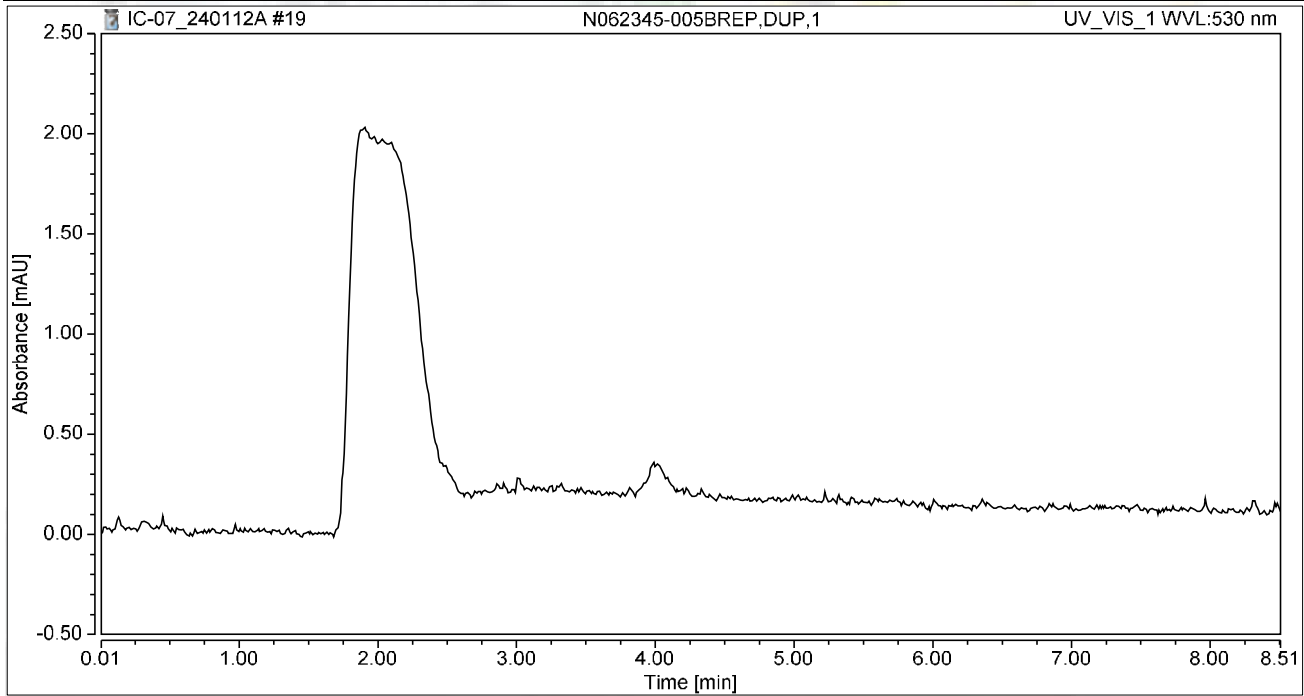
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062345-005BREP,DUP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:07	Sample Weight:	1.0000

Chromatogram



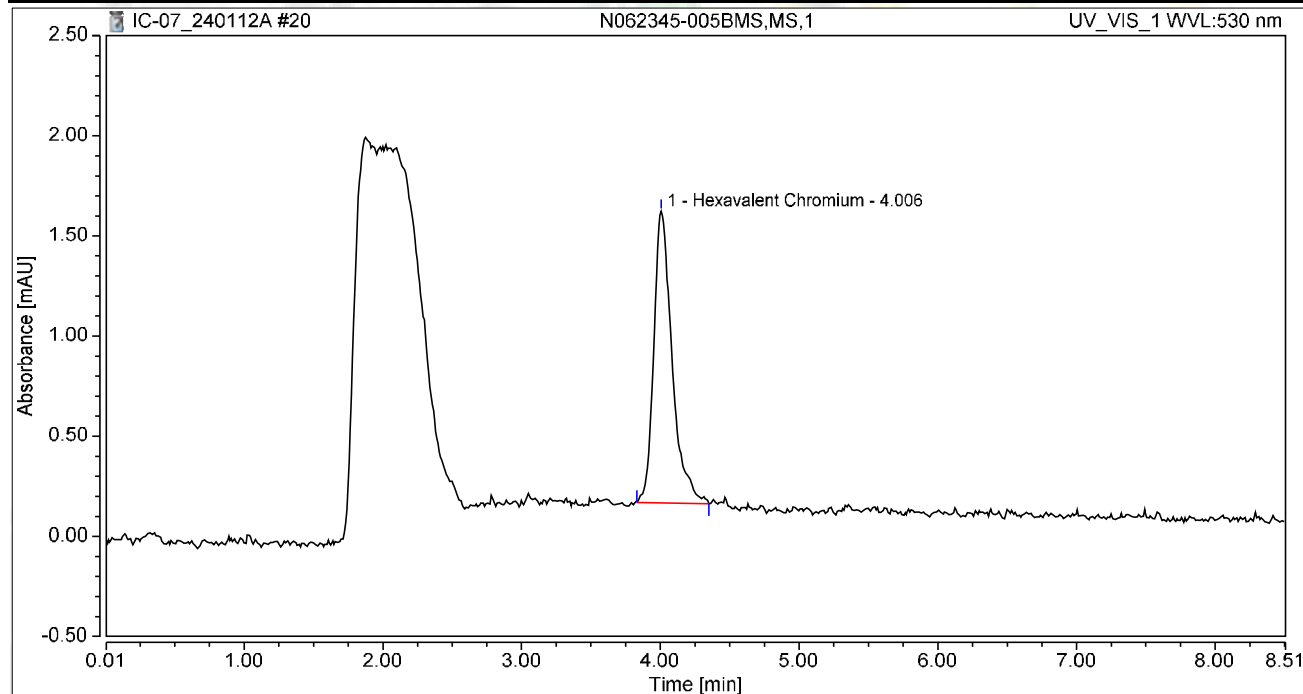
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062345-005BMS,MS,1	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 13:17	Sample Weight: 1.0000

Chromatogram

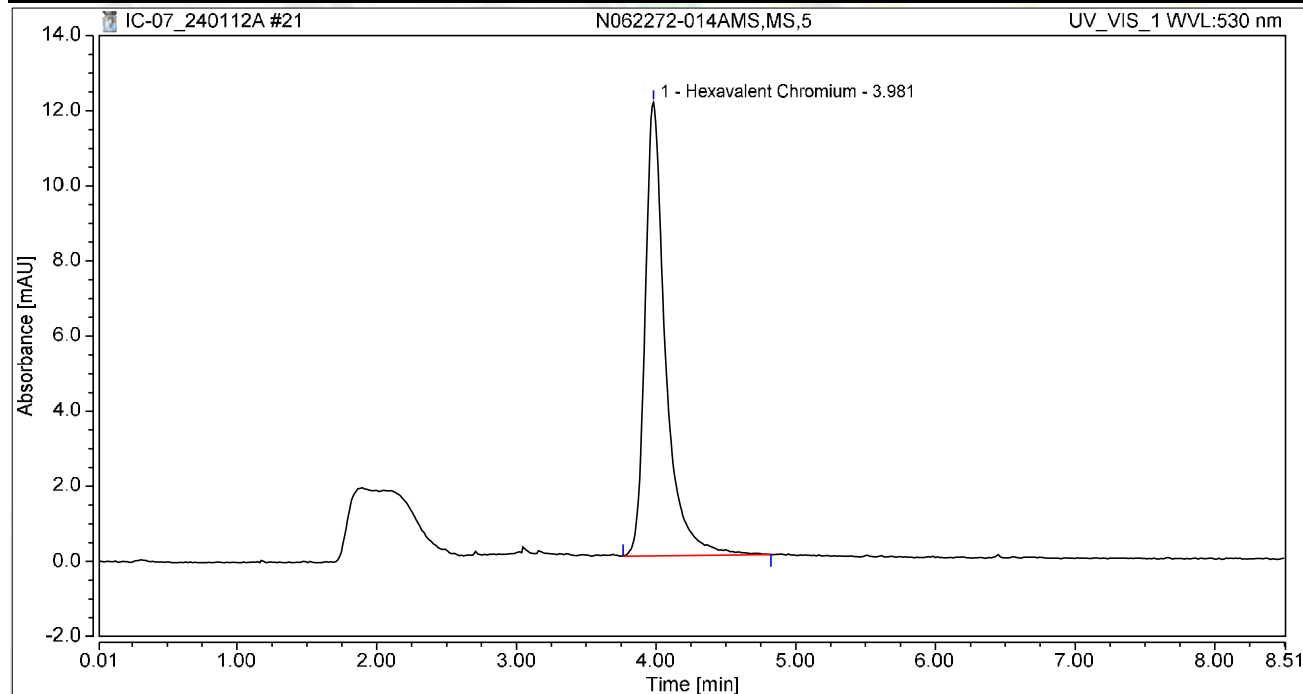


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.224	1.456	100.00	100.00	1.0743
Total:			0.224	1.456	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-014AMS,MS,5	Run Time (min): 8.49
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 13:26	Sample Weight: 1.0000

Chromatogram

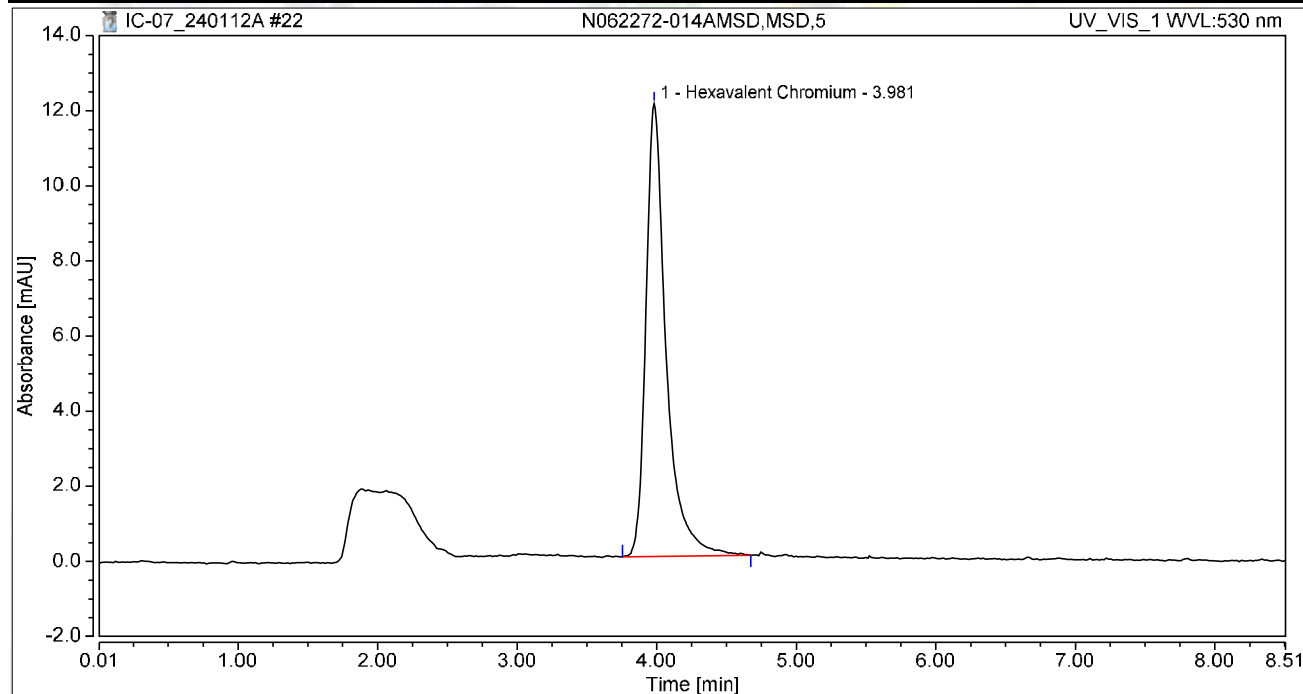


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	2.054	12.080	100.00	100.00	9.8726
Total:			2.054	12.080	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-014AMSD,MSD,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 13:35	Sample Weight: 1.0000

Chromatogram

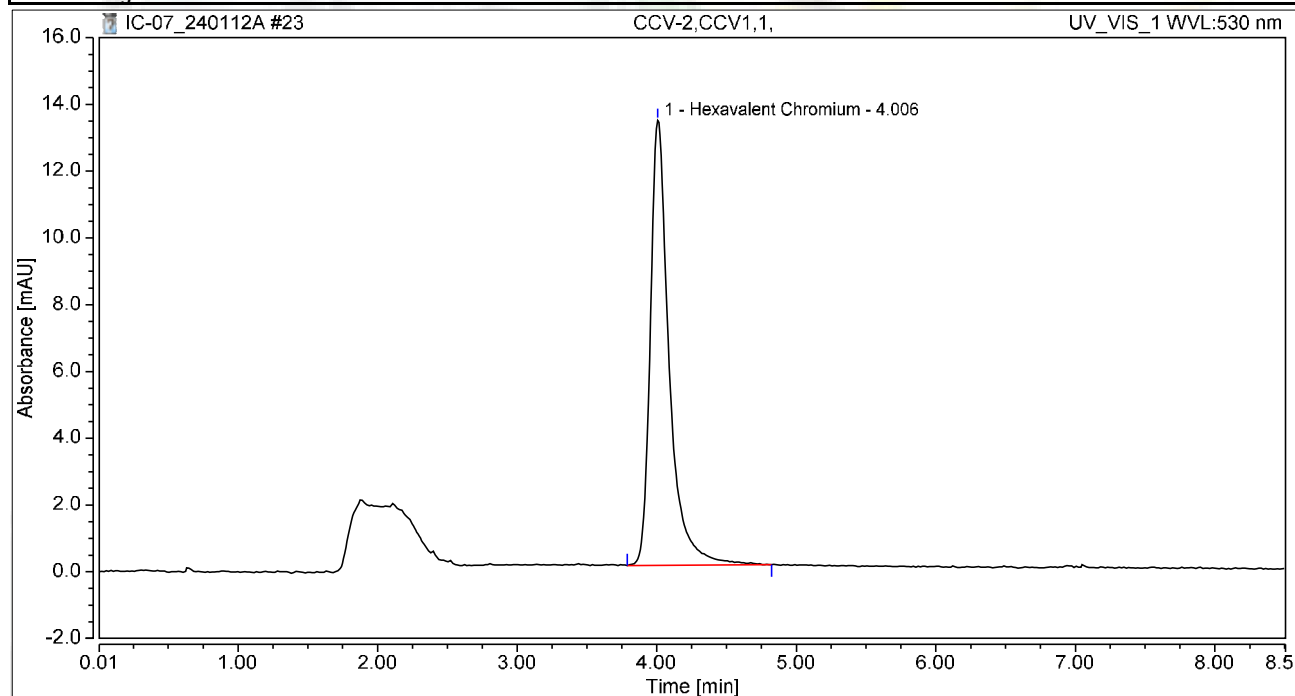


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	2.028	12.054	100.00	100.00	9.7441
Total:			2.028	12.054	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-2,CCV1,1,	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 13:45	Sample Weight: 1.0000

Chromatogram



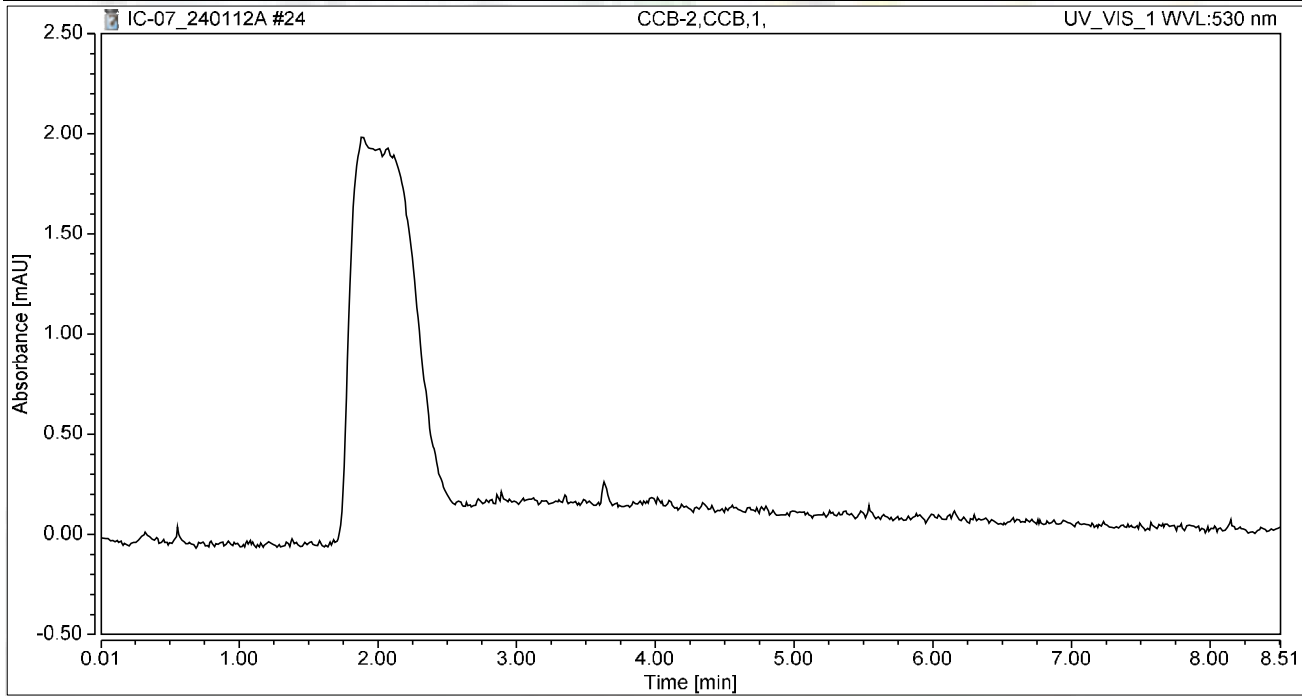
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.098	13.332	100.00	100.00	10.0837
Total:			2.098	13.332	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 13:54	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

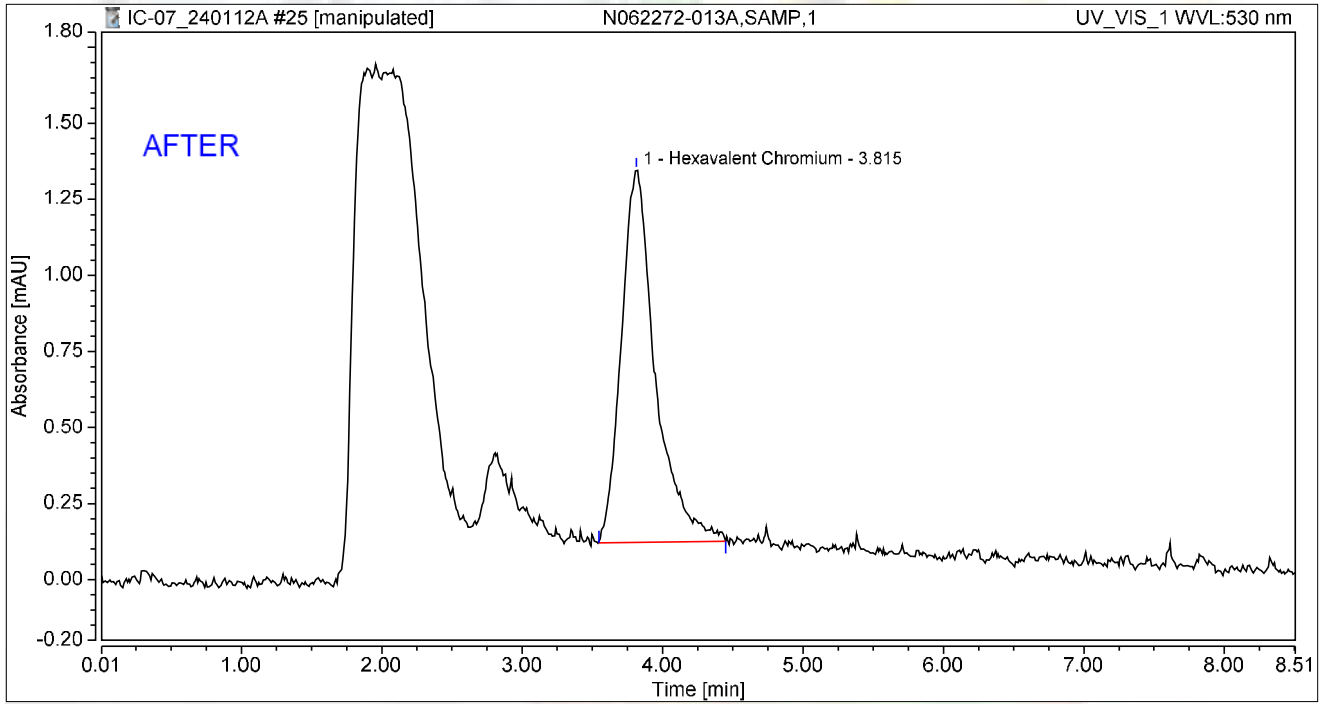
jrb 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062272-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:04	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.343	1.225	100.00	100.00	1.6480
Total:			0.343	1.225	100.00	100.00	

Reviewed by:

jrb

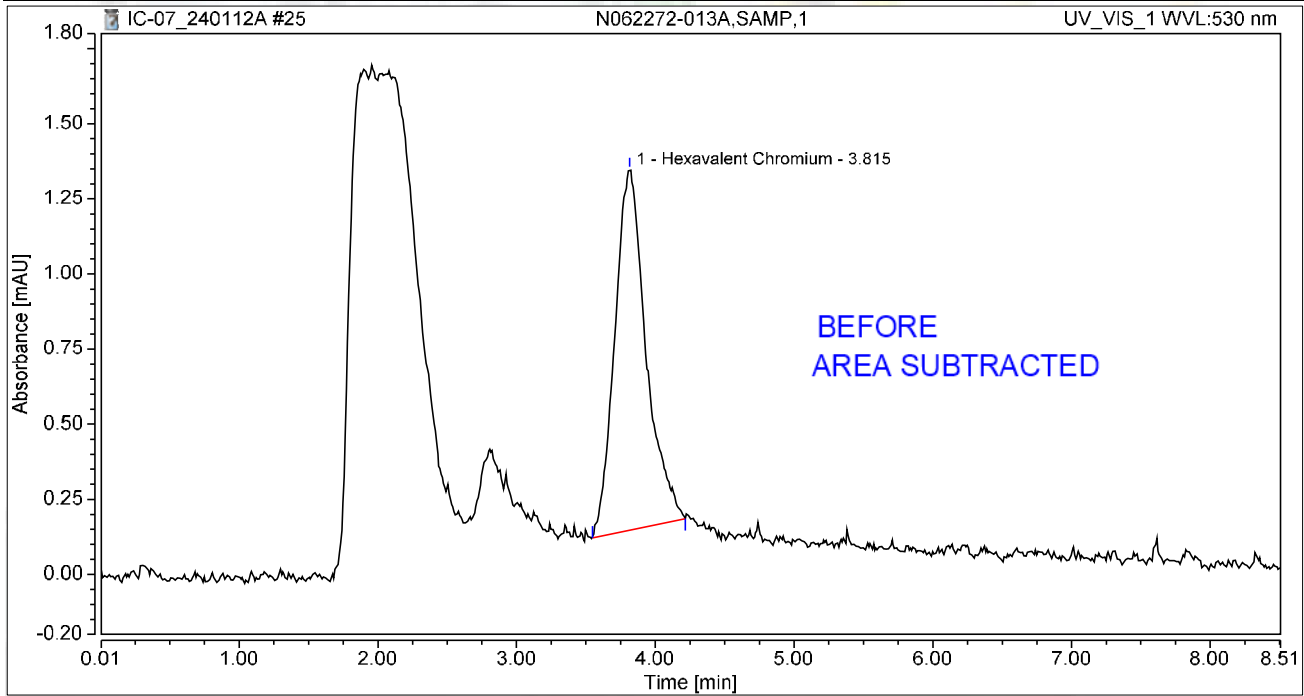
1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062272-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:04	Sample Weight:	1.0000

Chromatogram



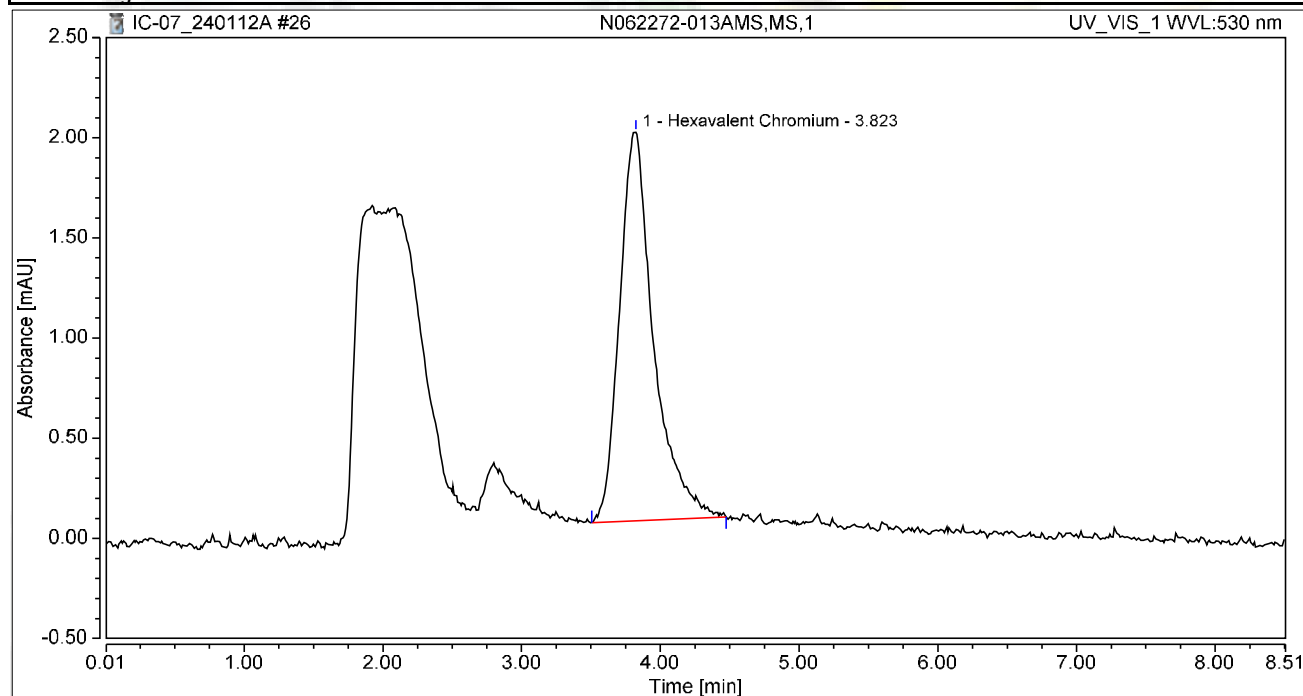
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.313	1.201	100.00	100.00	1.5038
Total:			0.313	1.201	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-013AMS,MS,1	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 14:13	Sample Weight: 1.0000

Chromatogram



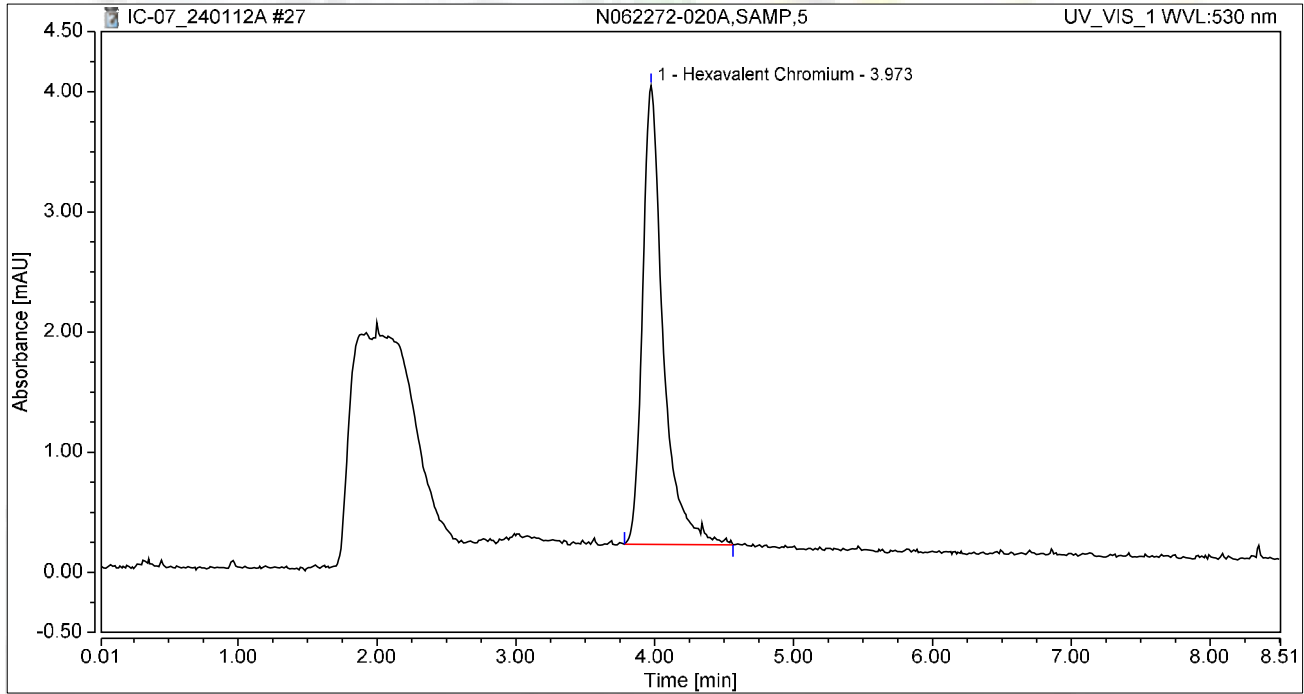
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.552	1.940	100.00	100.00	2.6510
Total:			0.552	1.940	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:23	Sample Weight:	1.0000

Chromatogram



Integration Results

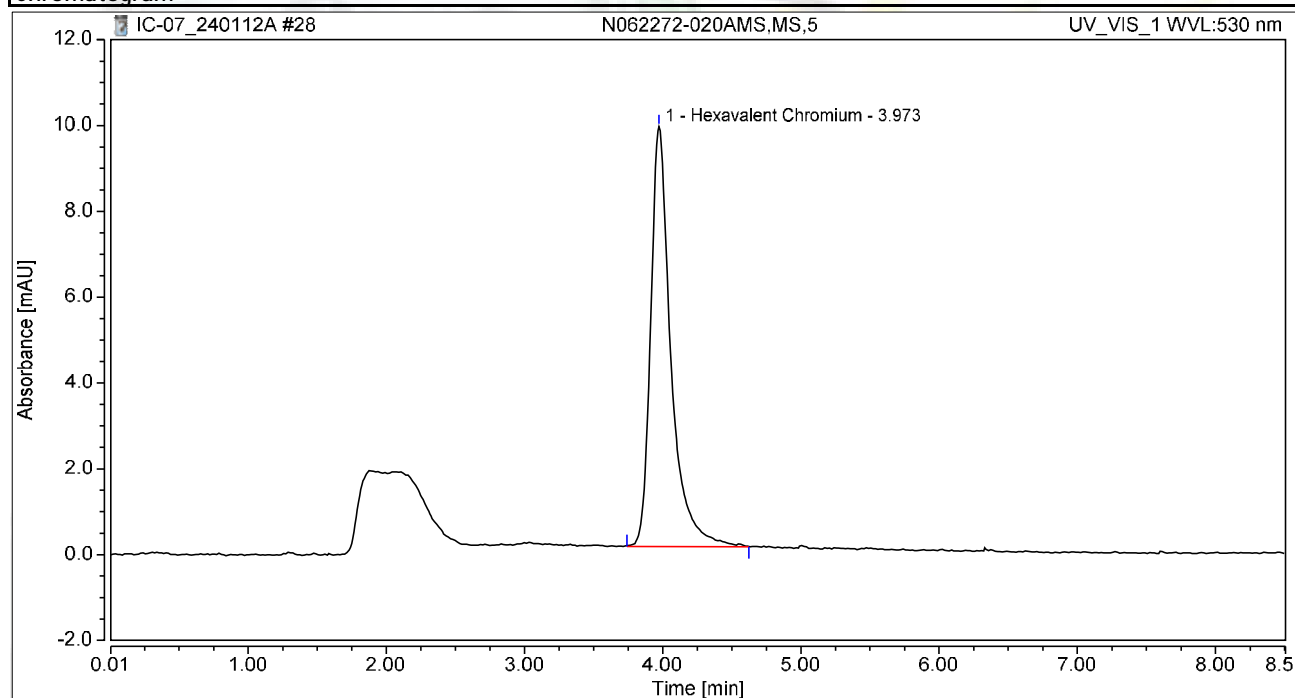
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.655	3.817	100.00	100.00	3.1482
Total:			0.655	3.817	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:32	Sample Weight:	1.0000

Chromatogram



Integration Results

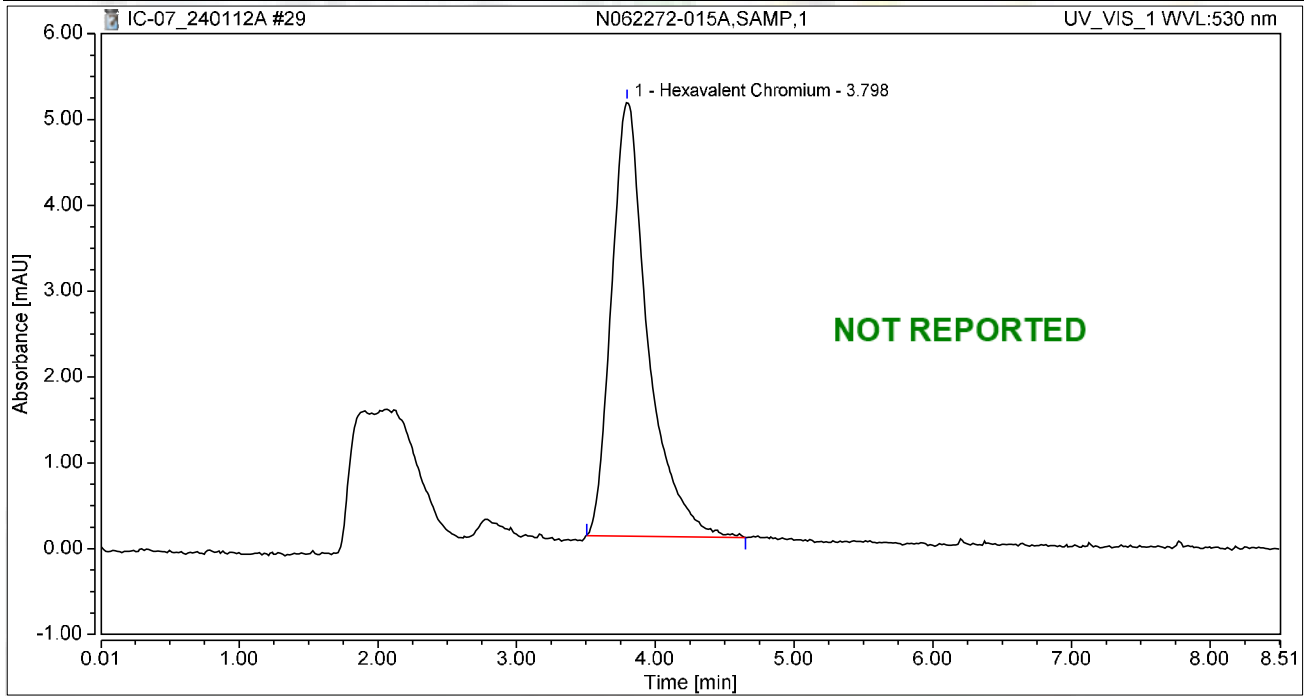
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.664	9.782	100.00	100.00	7.9983
Total:			1.664	9.782	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:42	Sample Weight:	1.0000

Chromatogram



Integration Results

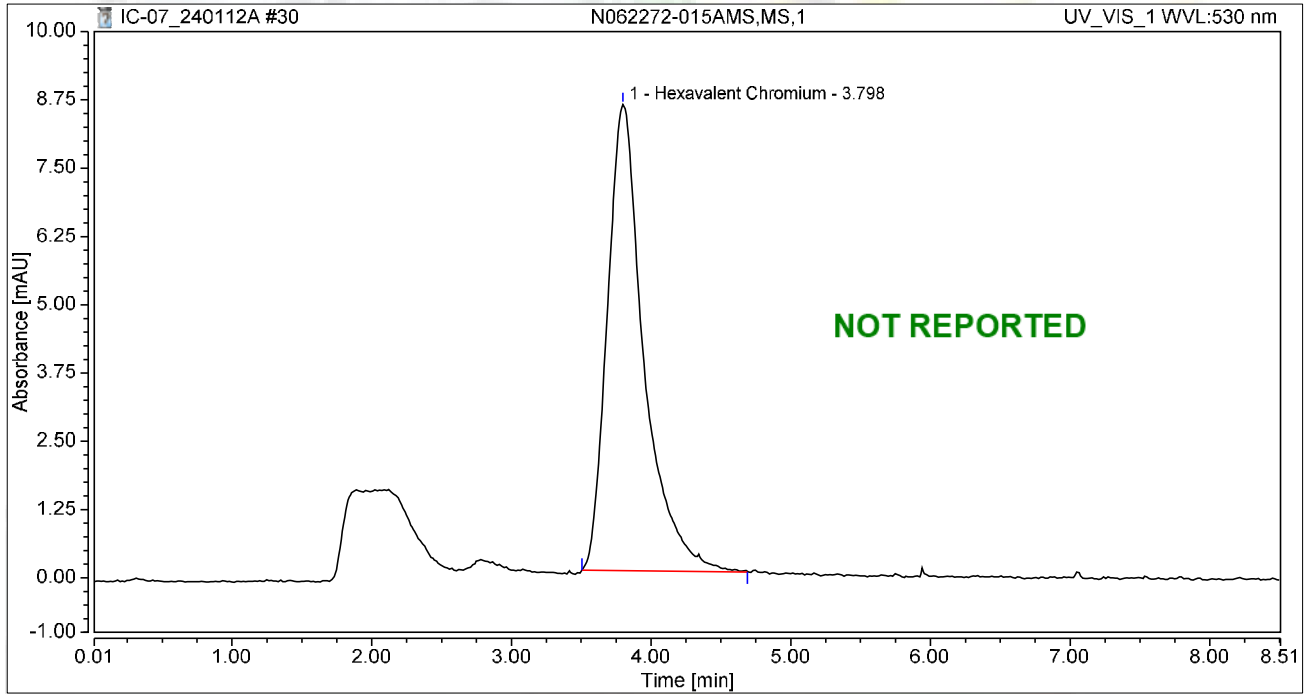
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	1.536	5.063	100.00	100.00	7.3833
Total:			1.536	5.063	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 14:51	Sample Weight:	1.0000

Chromatogram



Integration Results

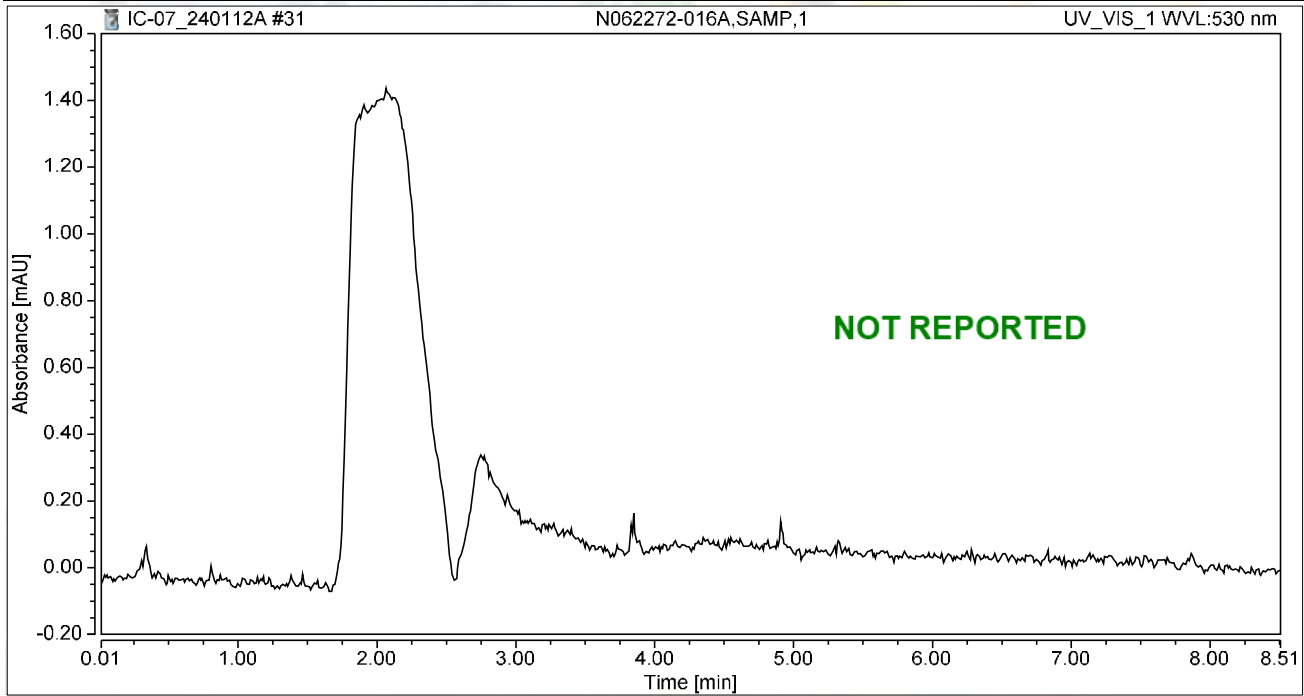
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	2.585	8.529	100.00	100.00	12.4246
Total:			2.585	8.529	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:01	Sample Weight:	1.0000

Chromatogram



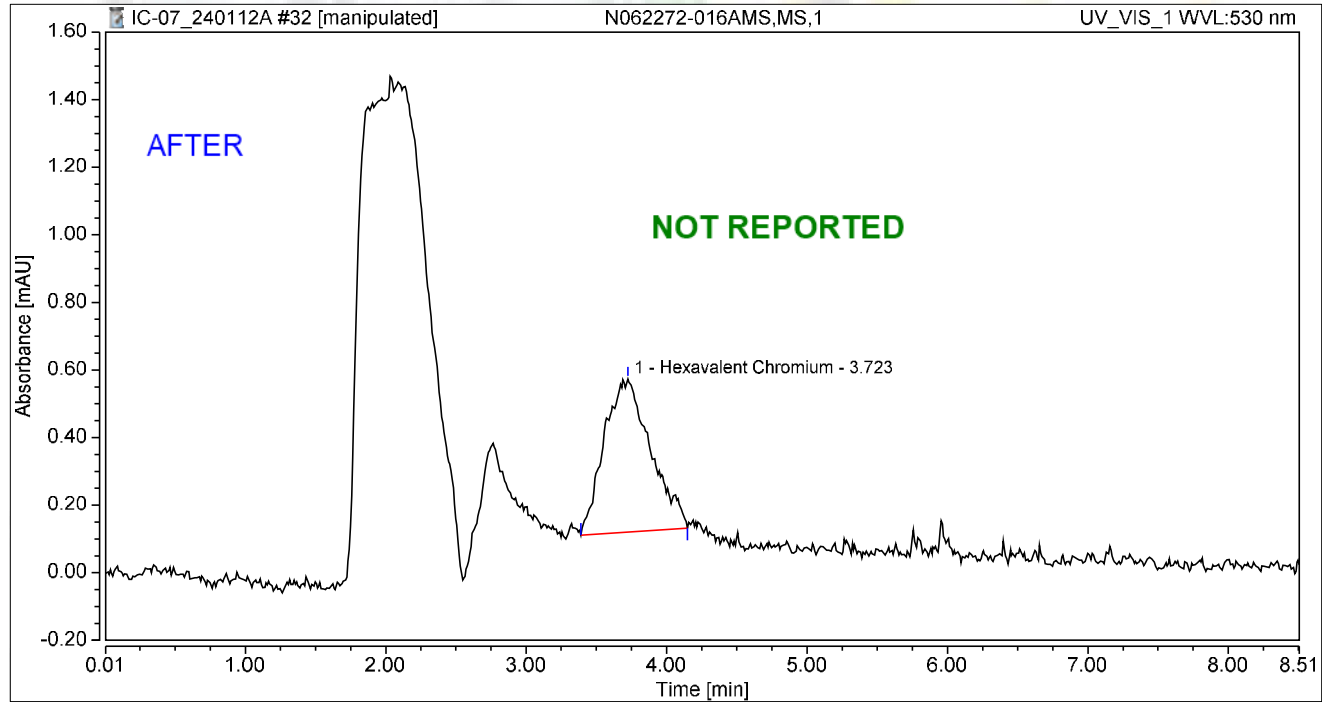
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-016AMS,MS,1	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 15:10	Sample Weight: 1.0000

Chromatogram



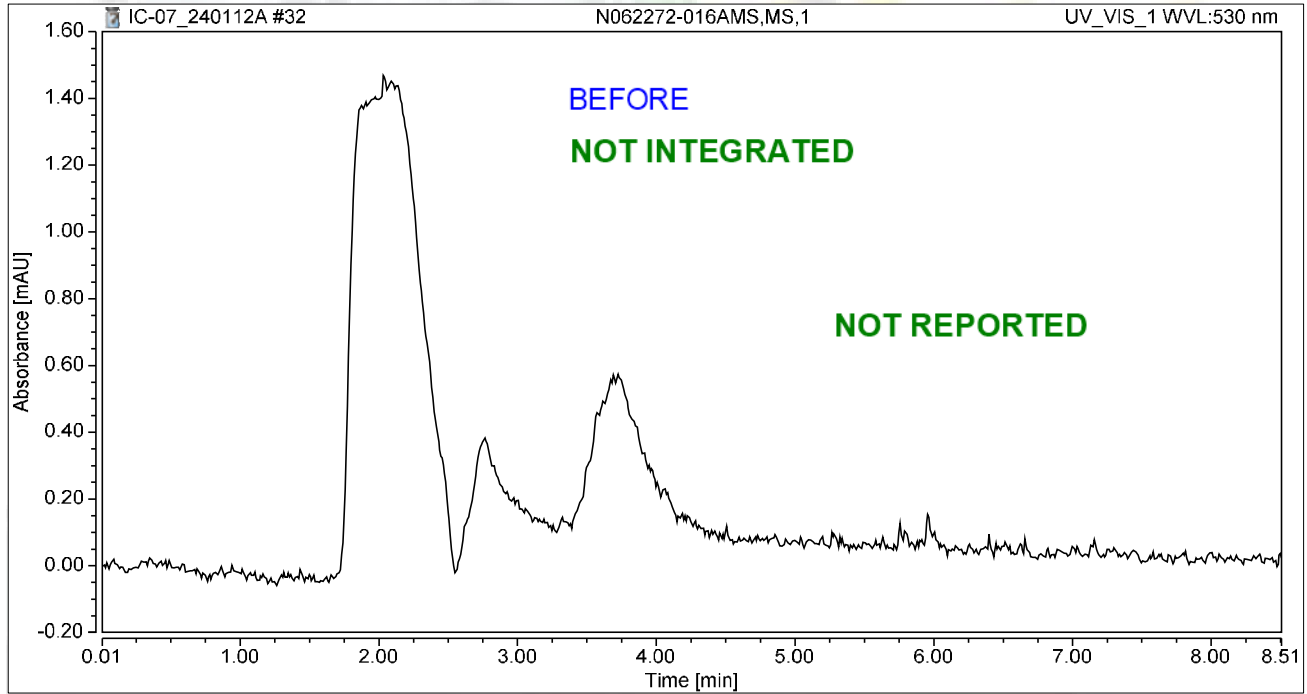
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.723	0.174	0.454	100.00	100.00	0.8365
Total:			0.174	0.454	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

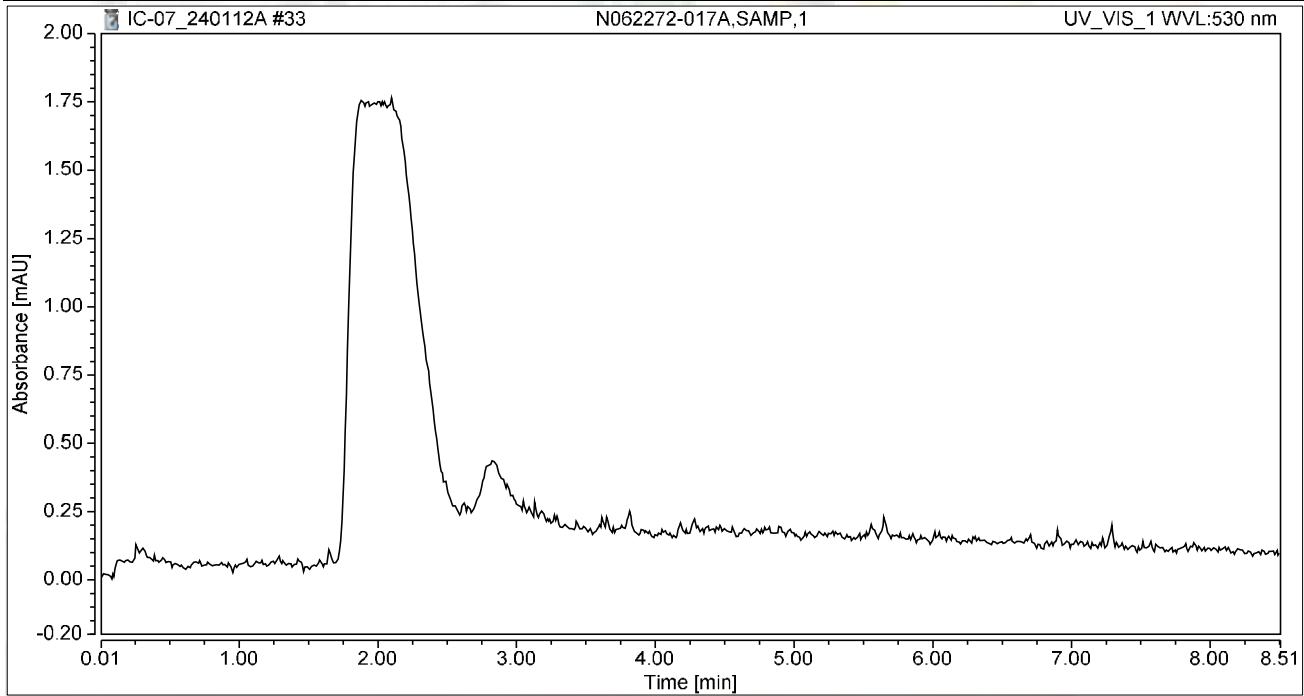
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-017A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:19	Sample Weight:	1.0000

Chromatogram



Integration Results

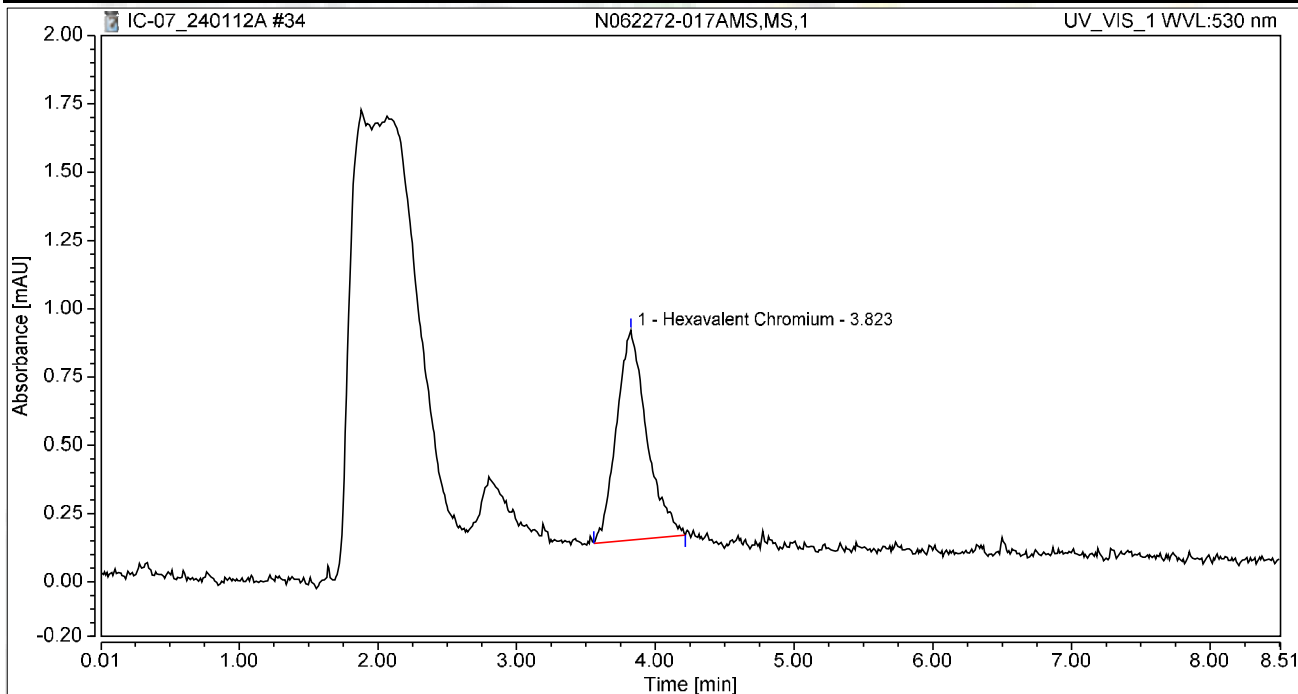
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-017AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:29	Sample Weight:	1.0000

Chromatogram



Integration Results

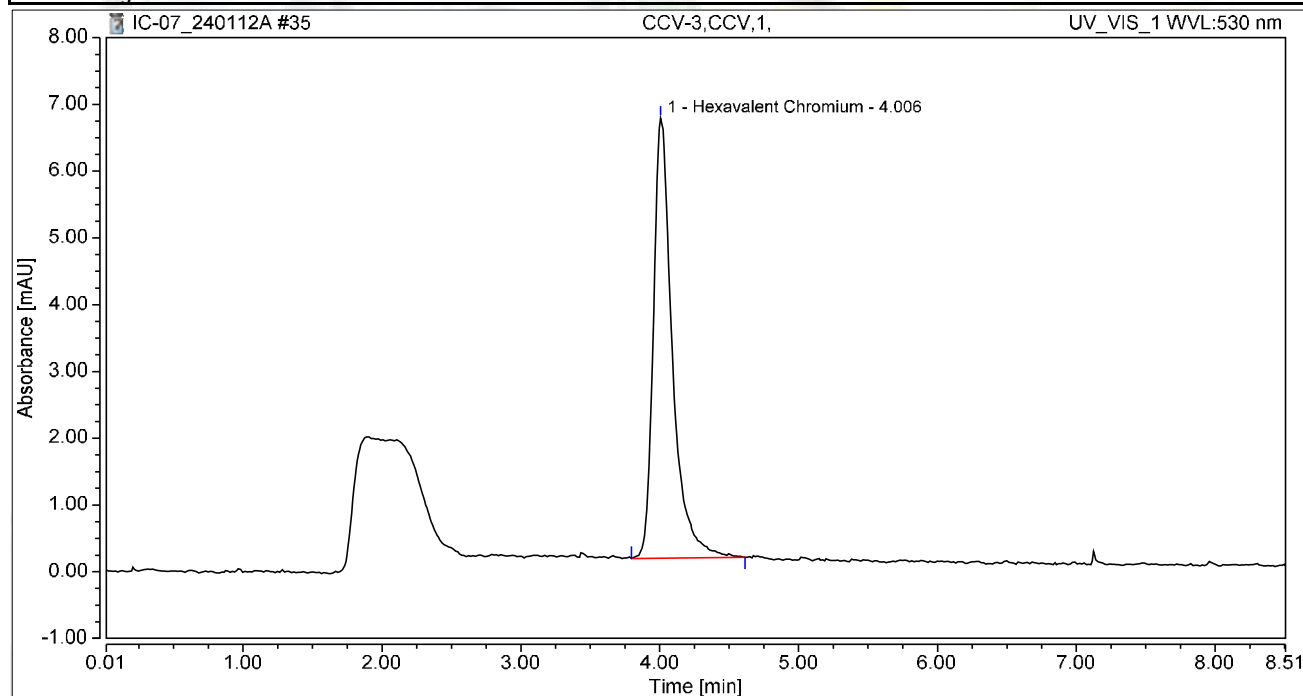
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.193	0.767	100.00	100.00	0.9293
Total:			0.193	0.767	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:38	Sample Weight:	1.0000

Chromatogram



Integration Results

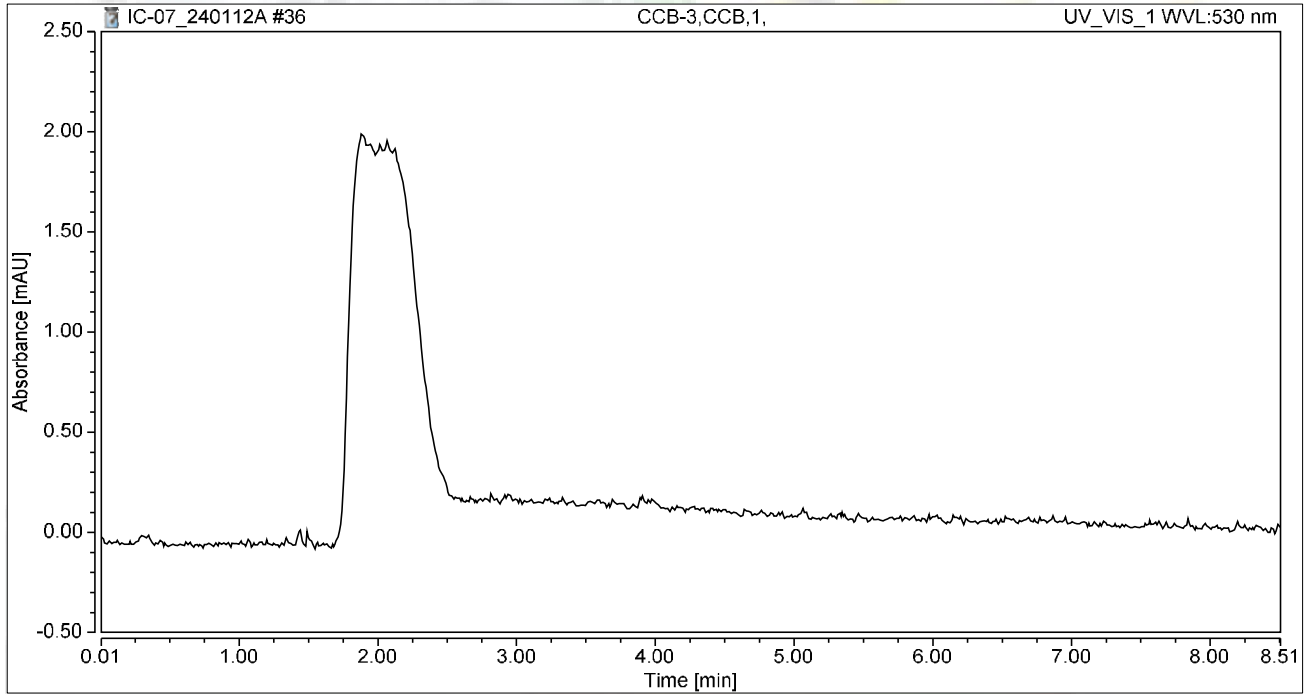
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.045	6.593	100.00	100.00	5.0229
Total:			1.045	6.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

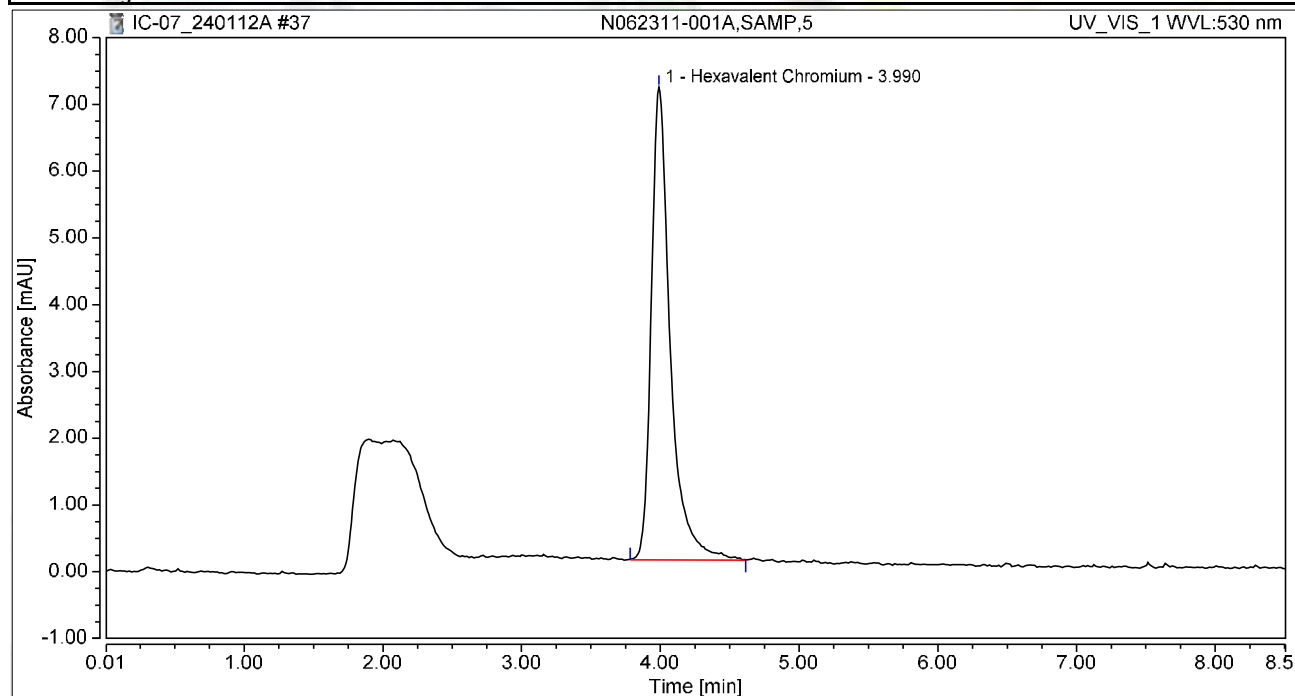
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062311-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 15:57	Sample Weight:	1.0000

Chromatogram



Integration Results

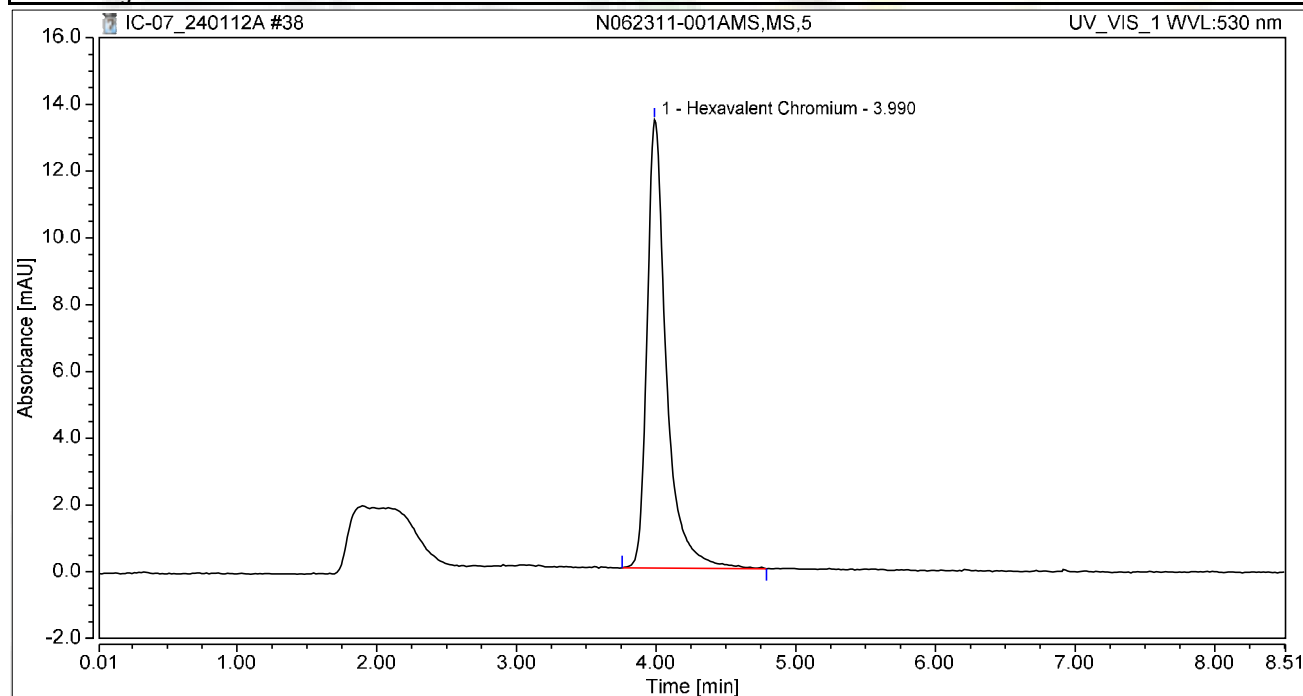
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.127	7.079	100.00	100.00	5.4138
Total:			1.127	7.079	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062311-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

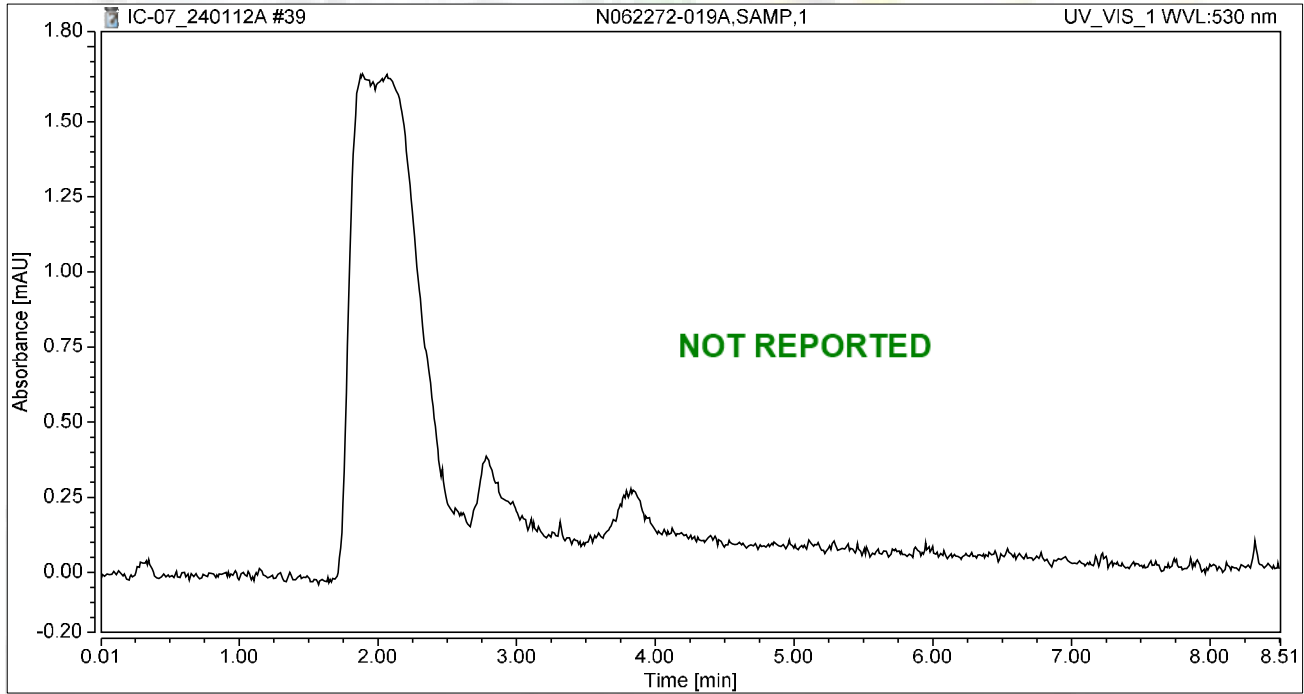
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	2.147	13.427	100.00	100.00	10.3194
Total:			2.147	13.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

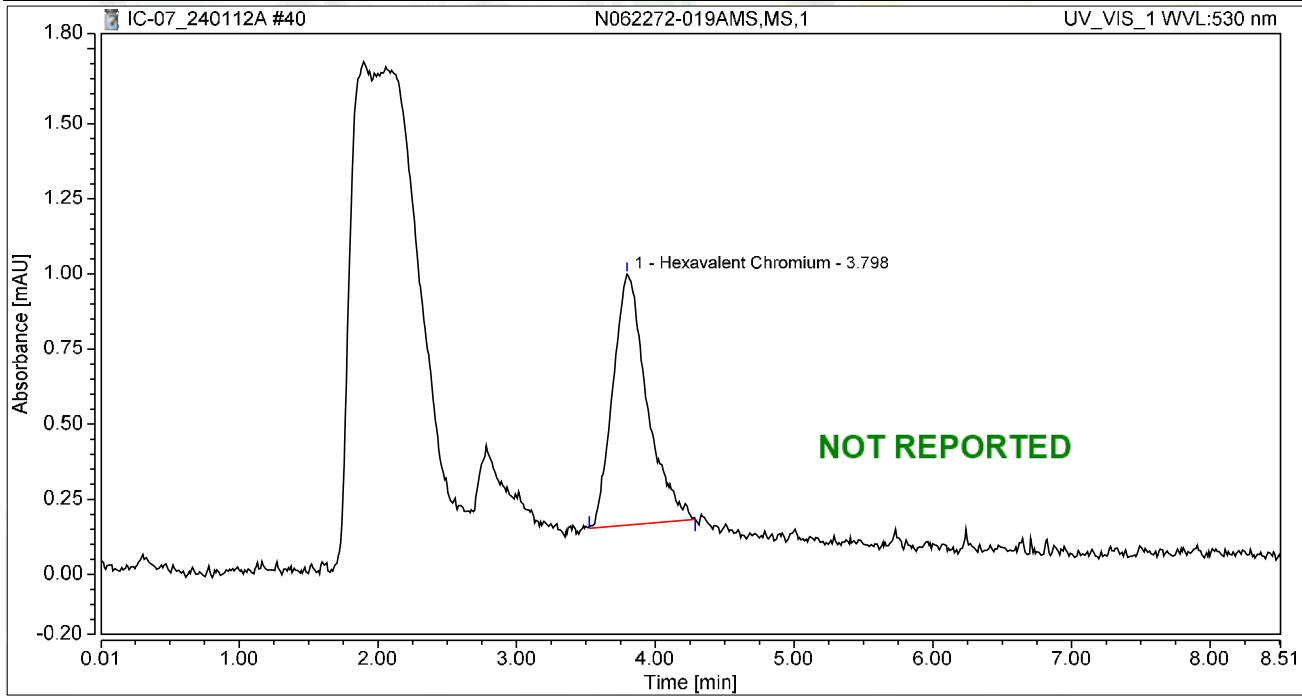
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

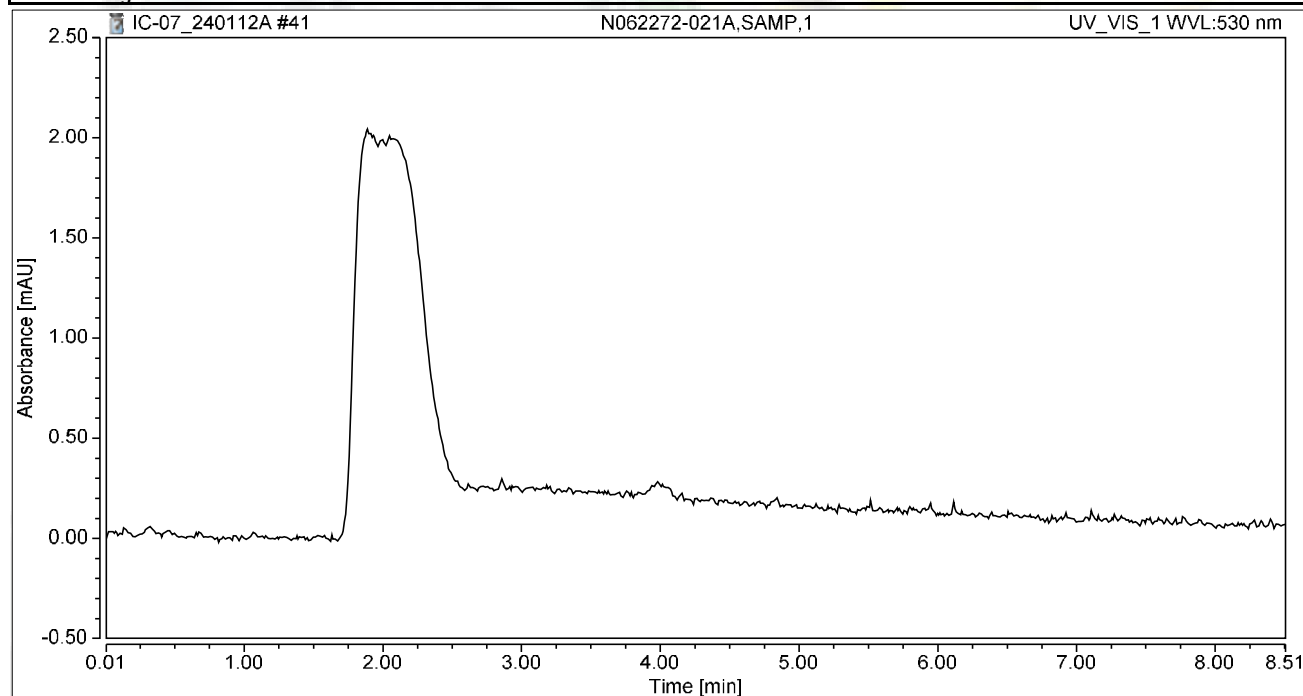
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.798	0.237	0.835	100.00	100.00	1.1391
Total:			0.237	0.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

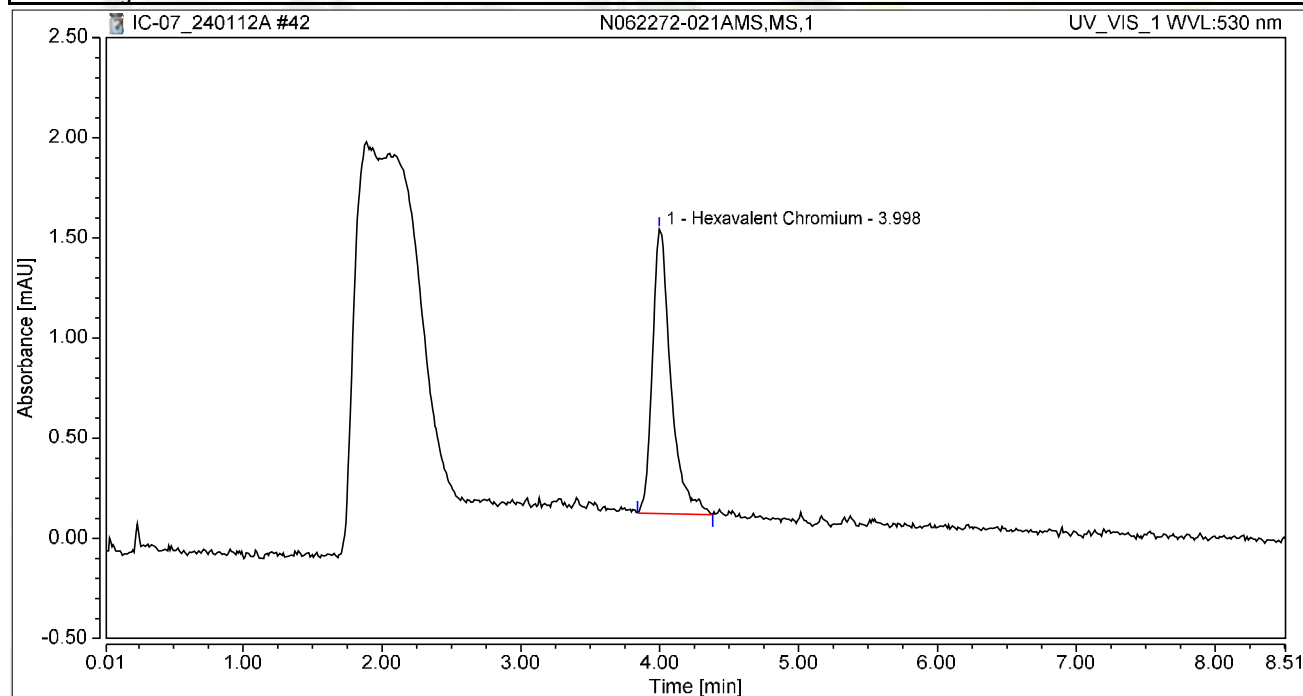
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-021AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

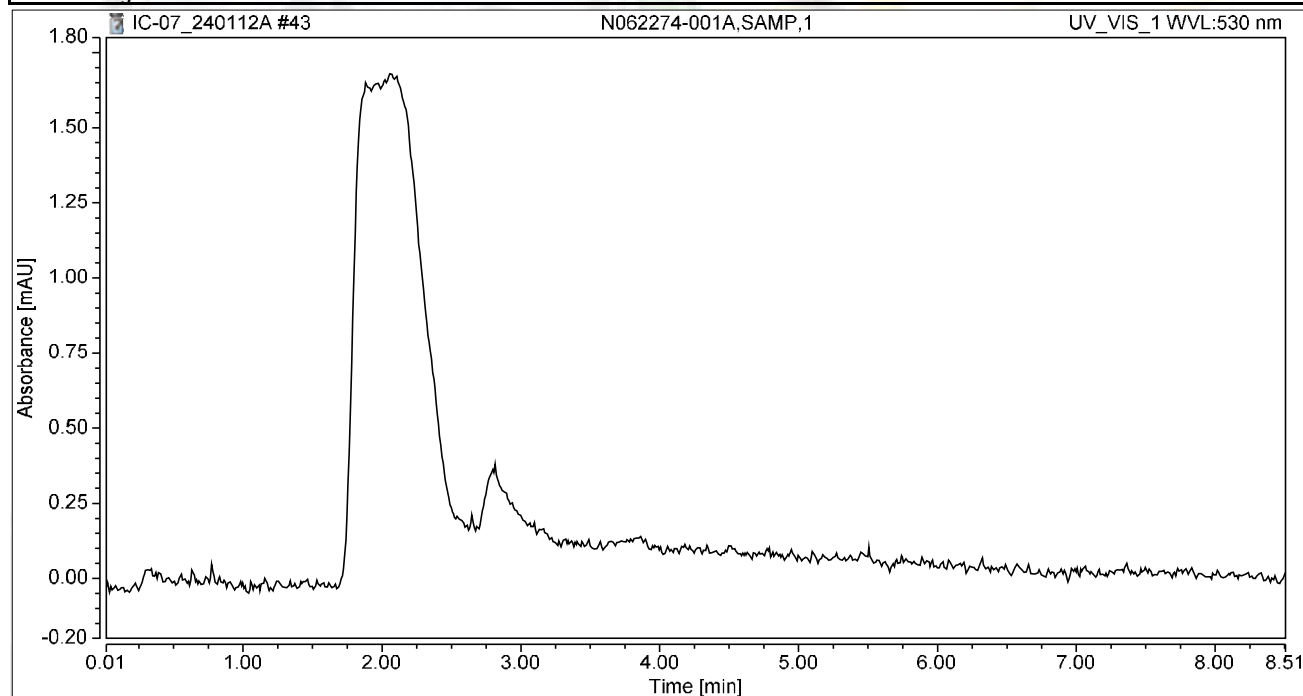
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.219	1.420	100.00	100.00	1.0512
Total:			0.219	1.420	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

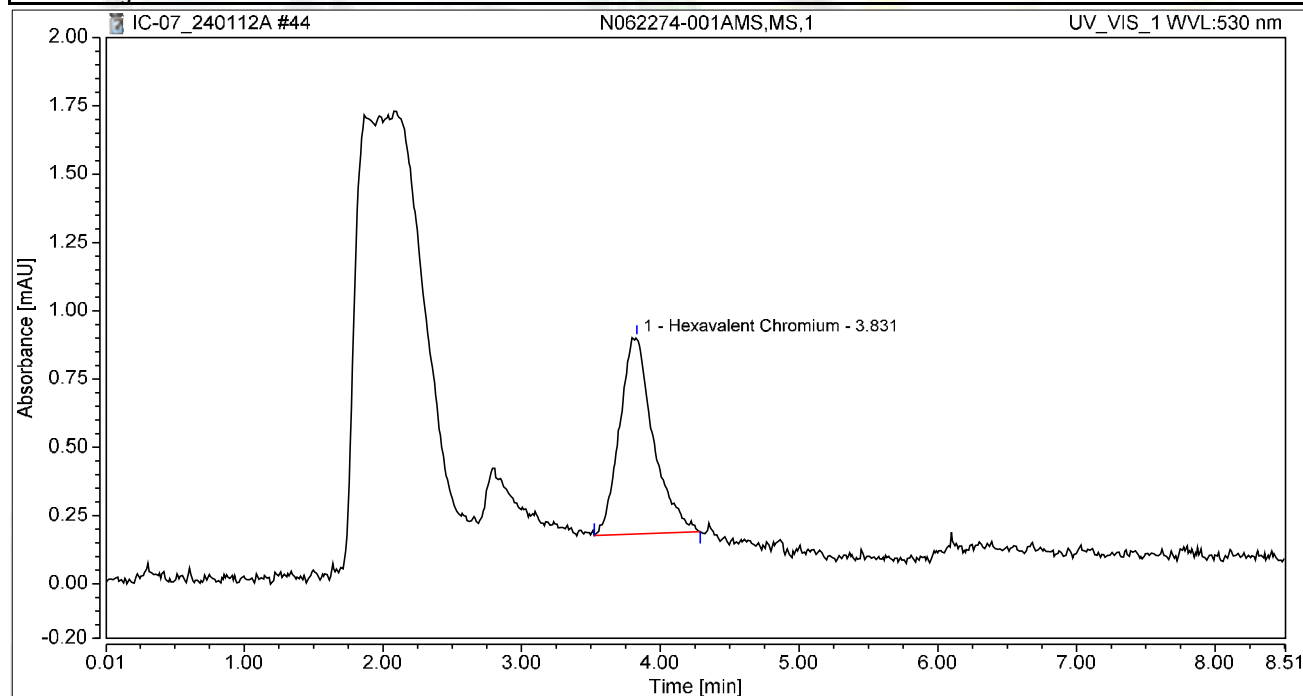
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:06	Sample Weight:	1.0000

Chromatogram



Integration Results

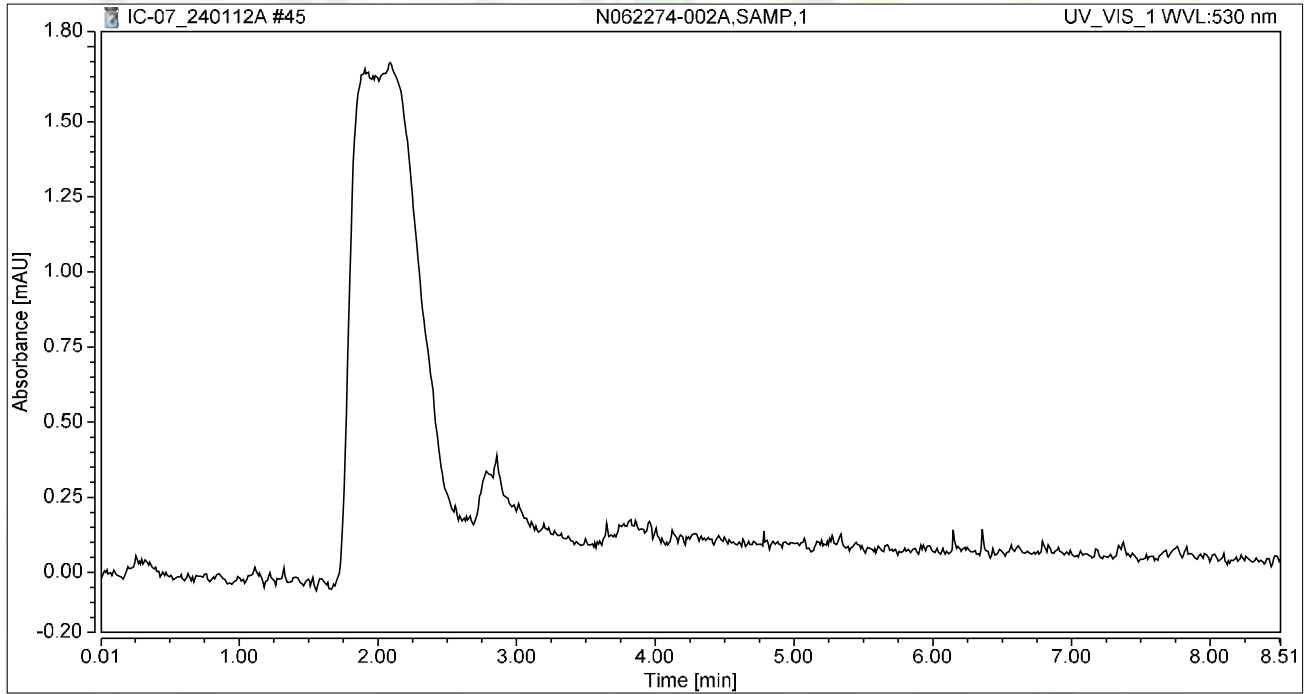
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.202	0.720	100.00	100.00	0.9715
Total:			0.202	0.720	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:17	Sample Weight:	1.0000

Chromatogram



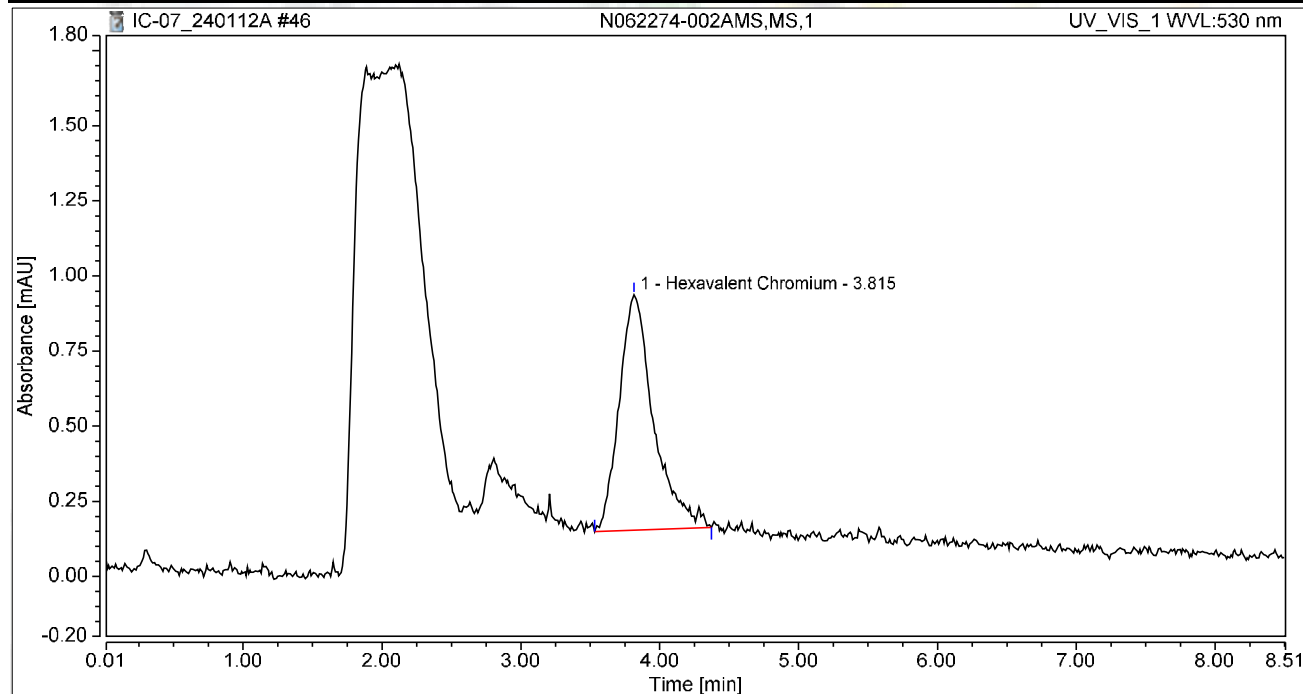
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-002AMS,MS,1	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 17:26	Sample Weight: 1.0000

Chromatogram



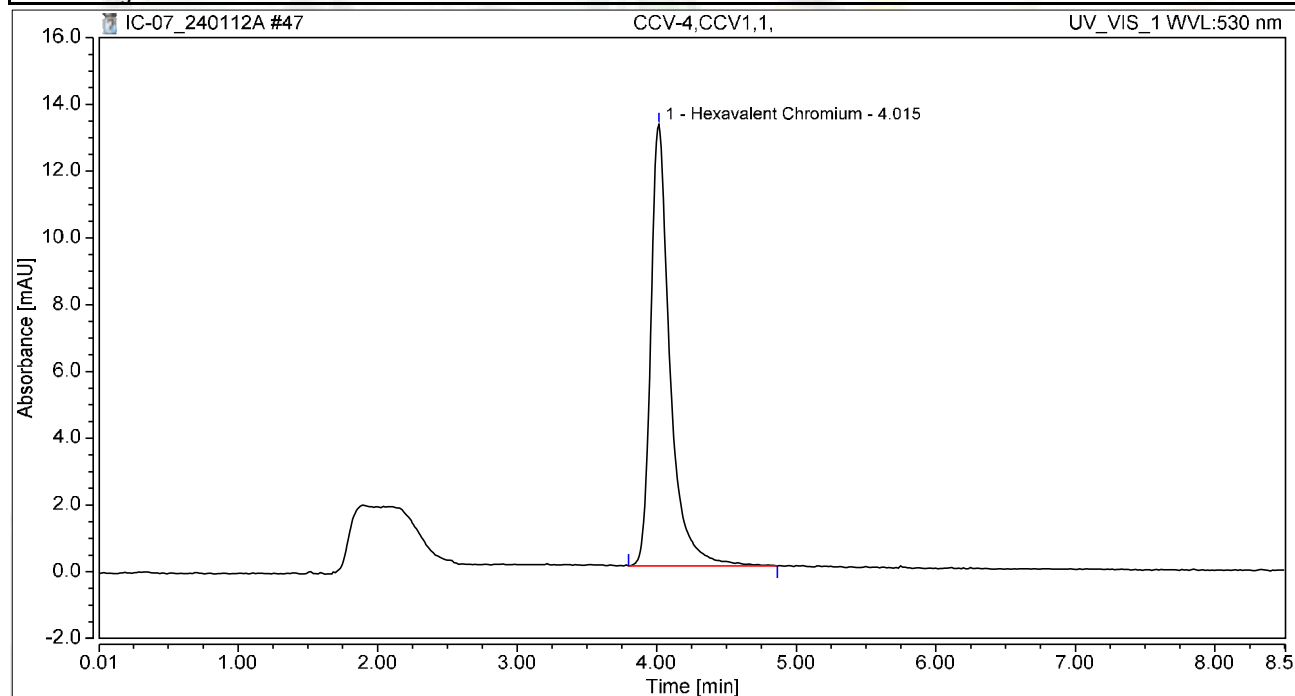
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.225	0.784	100.00	100.00	1.0818
Total:			0.225	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:36	Sample Weight:	1.0000

Chromatogram



Integration Results

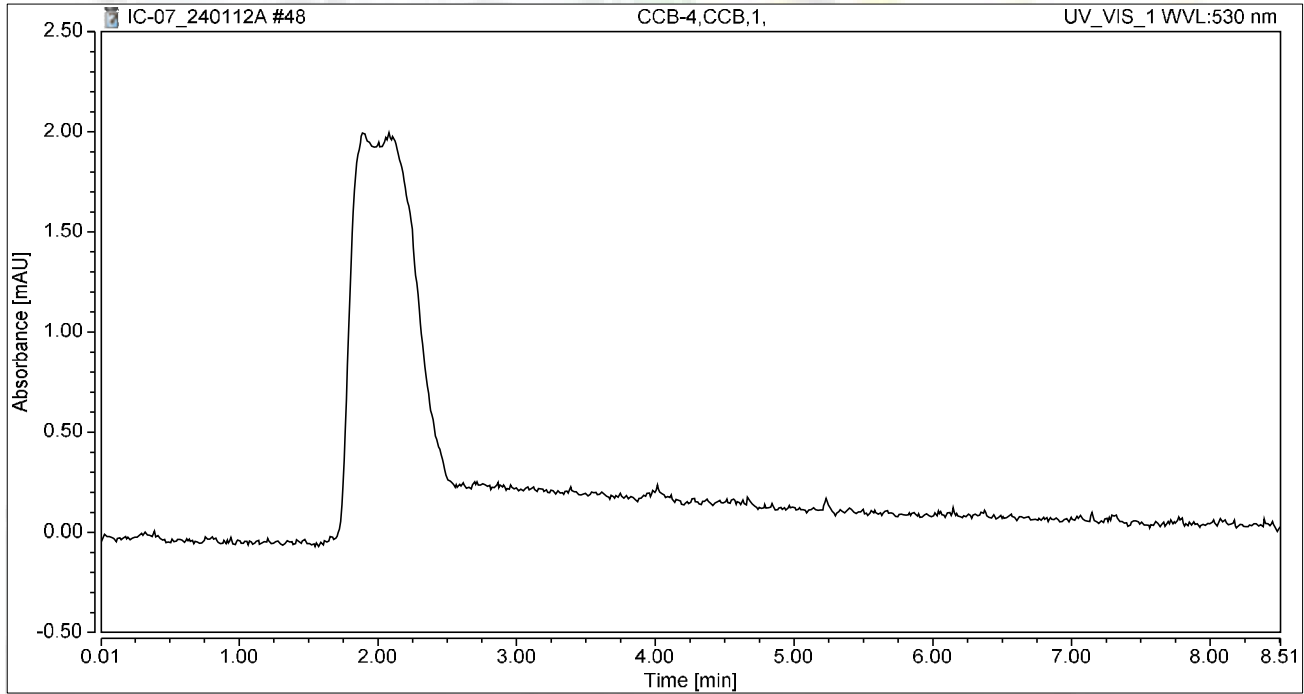
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.118	13.217	100.00	100.00	10.1786
Total:			2.118	13.217	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:45	Sample Weight:	1.0000

Chromatogram



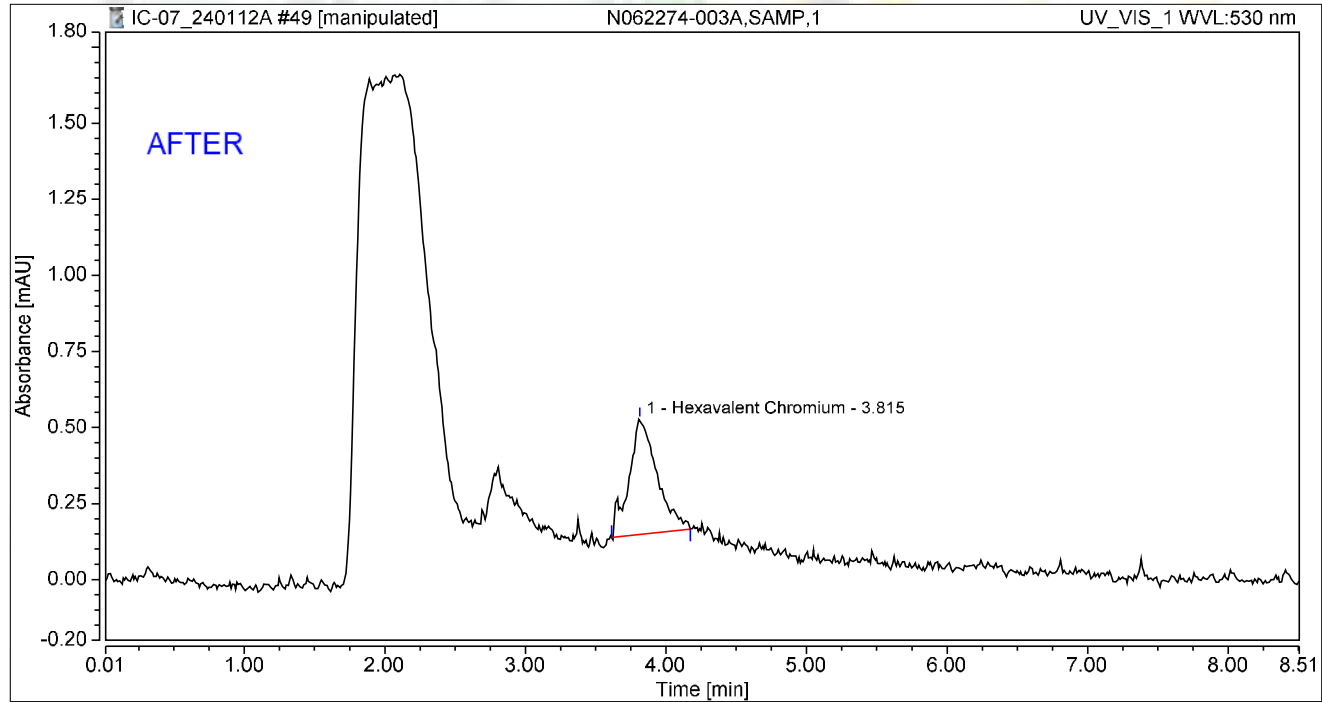
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062274-003A,SAMP,1	Run Time (min): 8.49
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 17:54	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.088	0.378	100.00	100.00	0.4232
Total:			0.088	0.378	100.00	100.00	

Reviewed by:

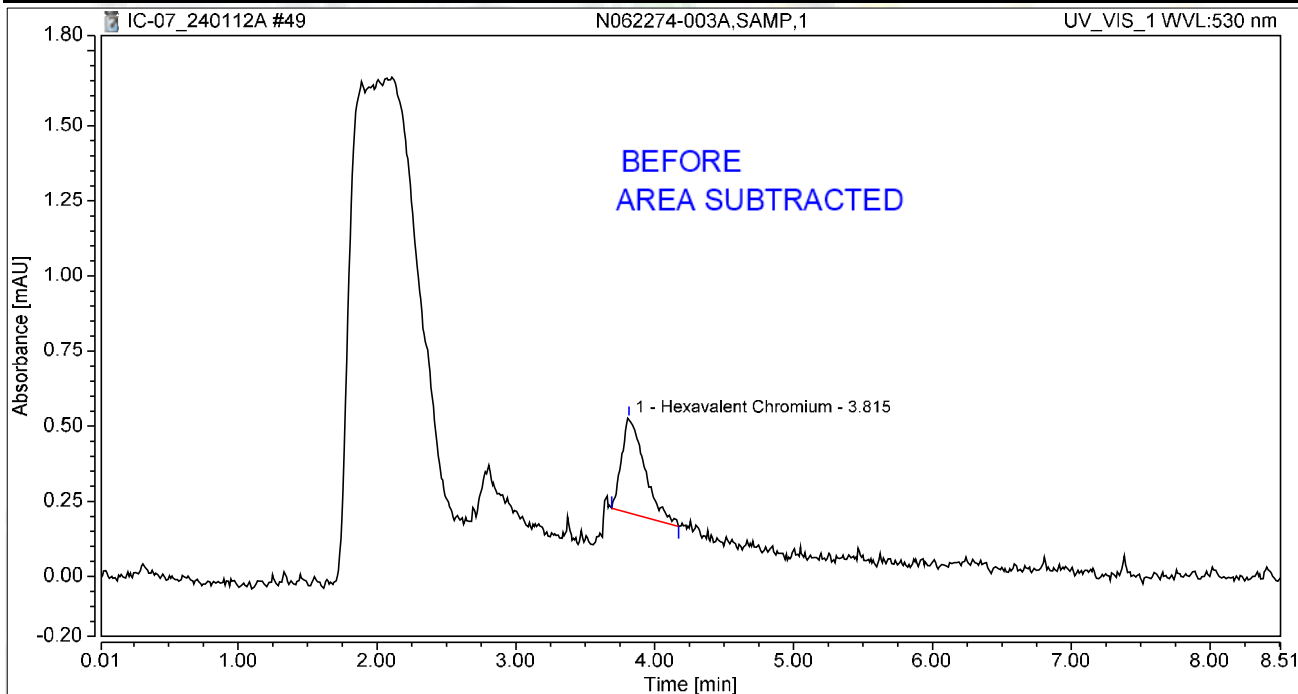
JRB 1/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N062274-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 17:54	Sample Weight:	1.0000

Chromatogram



Integration Results

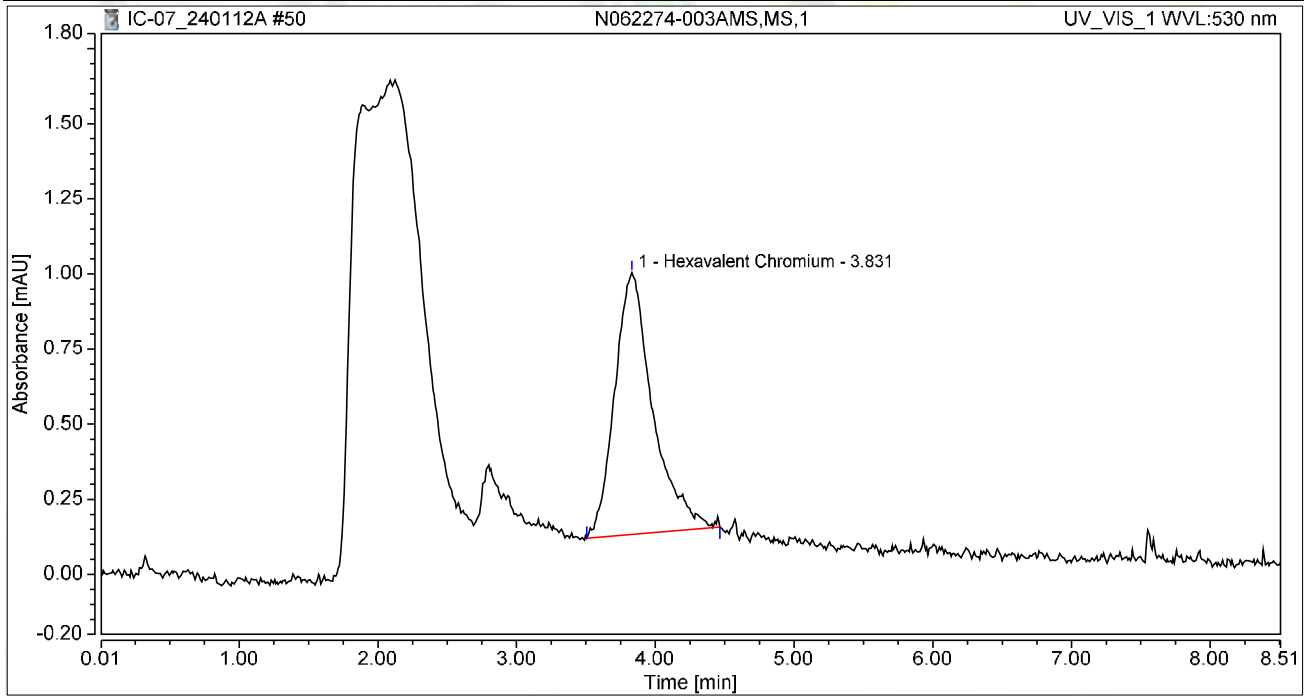
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.062	0.315	100.00	100.00	0.2964
Total:			0.062	0.315	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062274-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:04	Sample Weight:	1.0000

Chromatogram



Integration Results

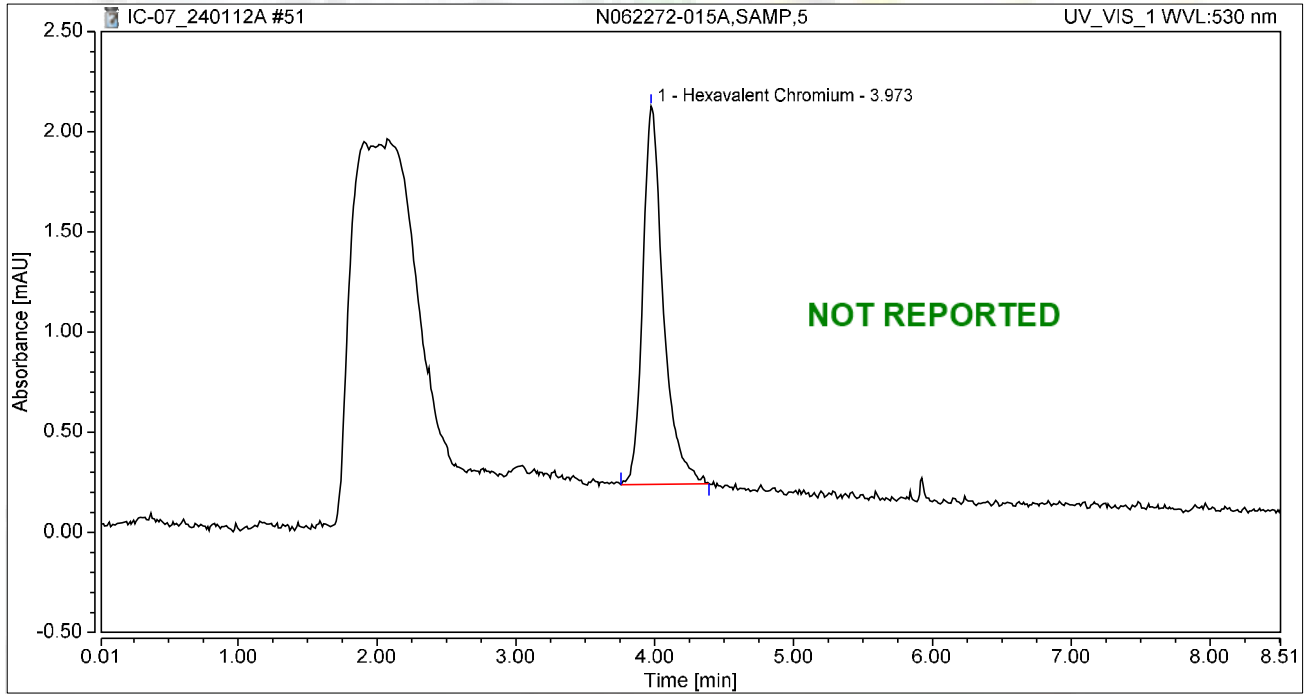
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.277	0.872	100.00	100.00	1.3324
Total:			0.277	0.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-015A,SAMP,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:13	Sample Weight:	1.0000

Chromatogram



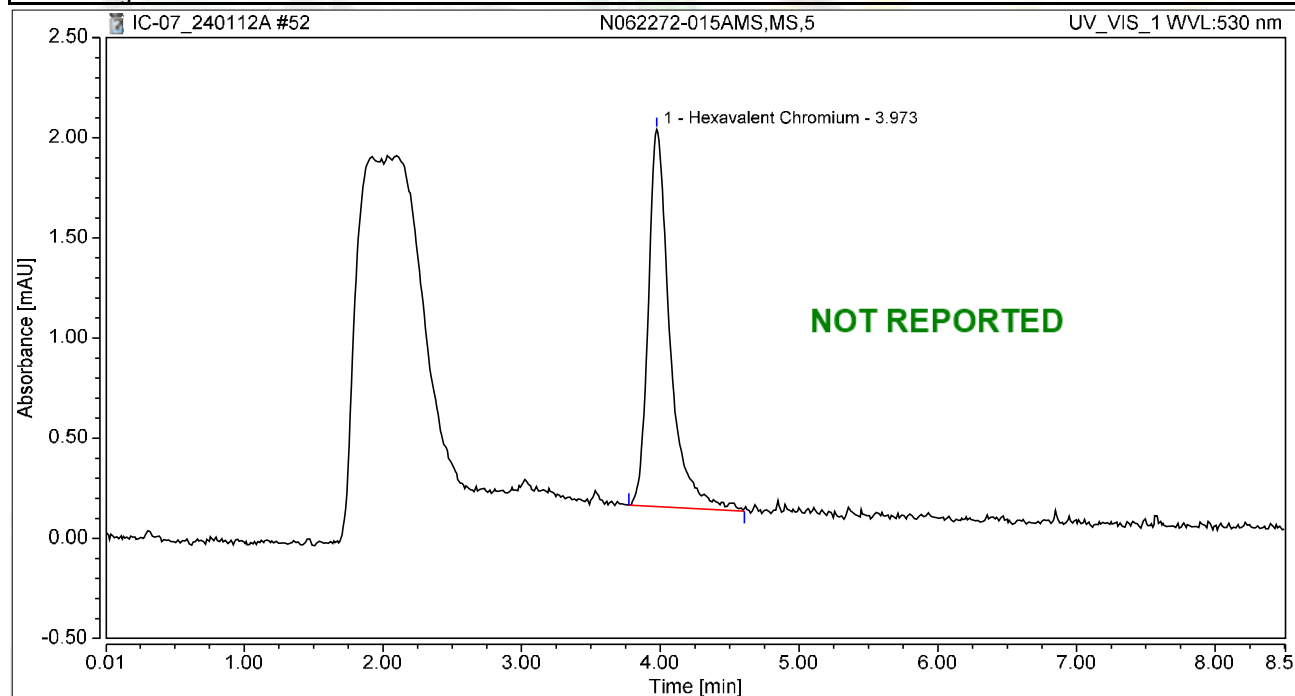
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.323	1.887	100.00	100.00	1.5505
Total:			0.323	1.887	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-015AMS,MS,5	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 18:23	Sample Weight: 1.0000

Chromatogram



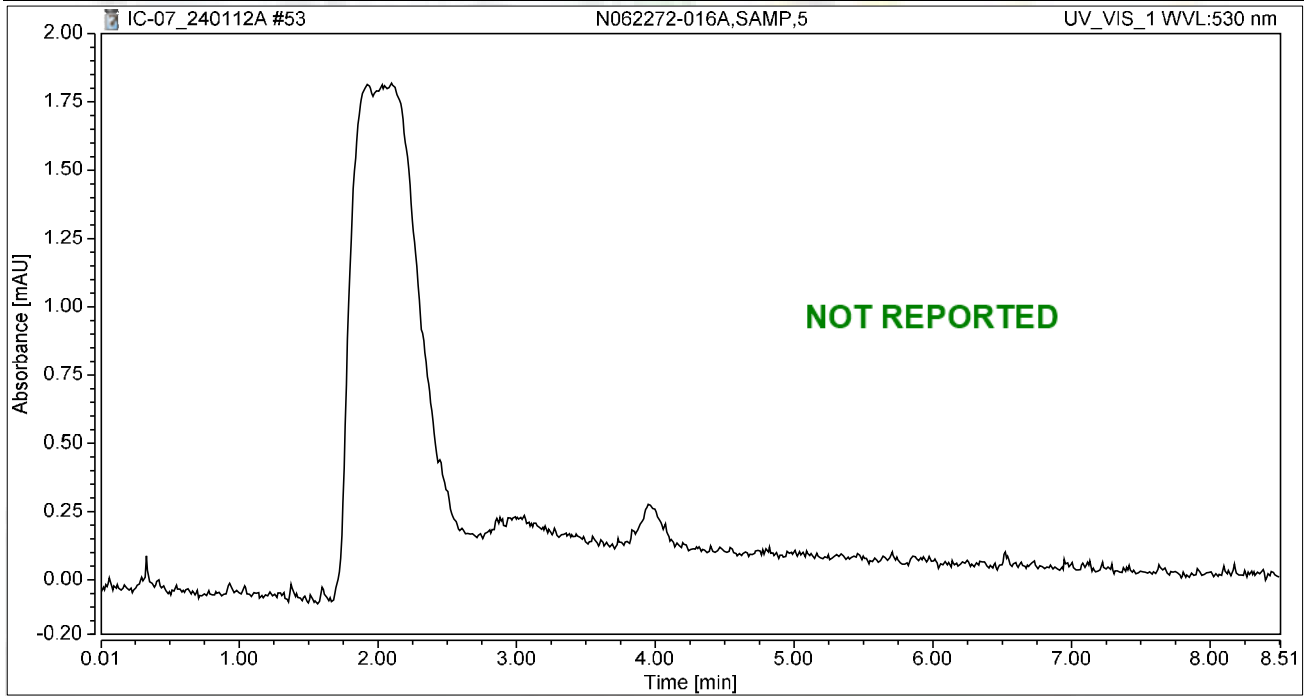
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.341	1.883	100.00	100.00	1.6404
Total:			0.341	1.883	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:32	Sample Weight:	1.0000

Chromatogram



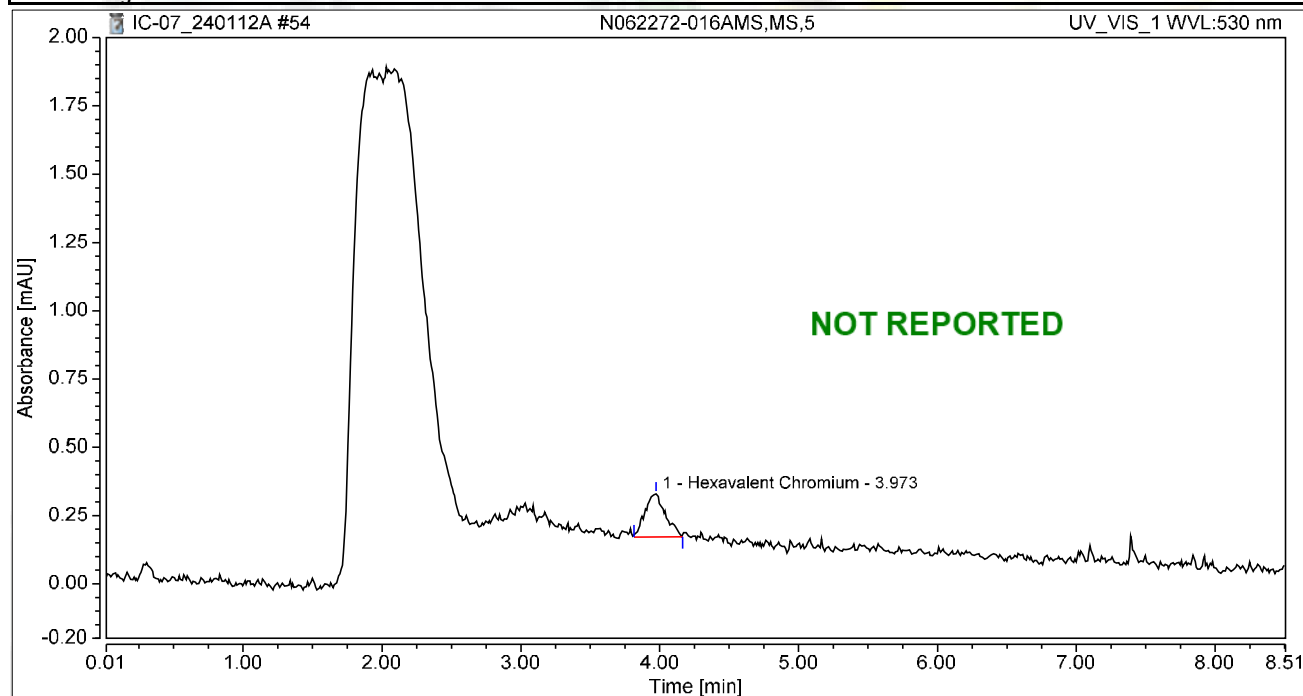
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062272-016AMS,MS,5	Run Time (min): 8.49
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 18:42	Sample Weight: 1.0000

Chromatogram



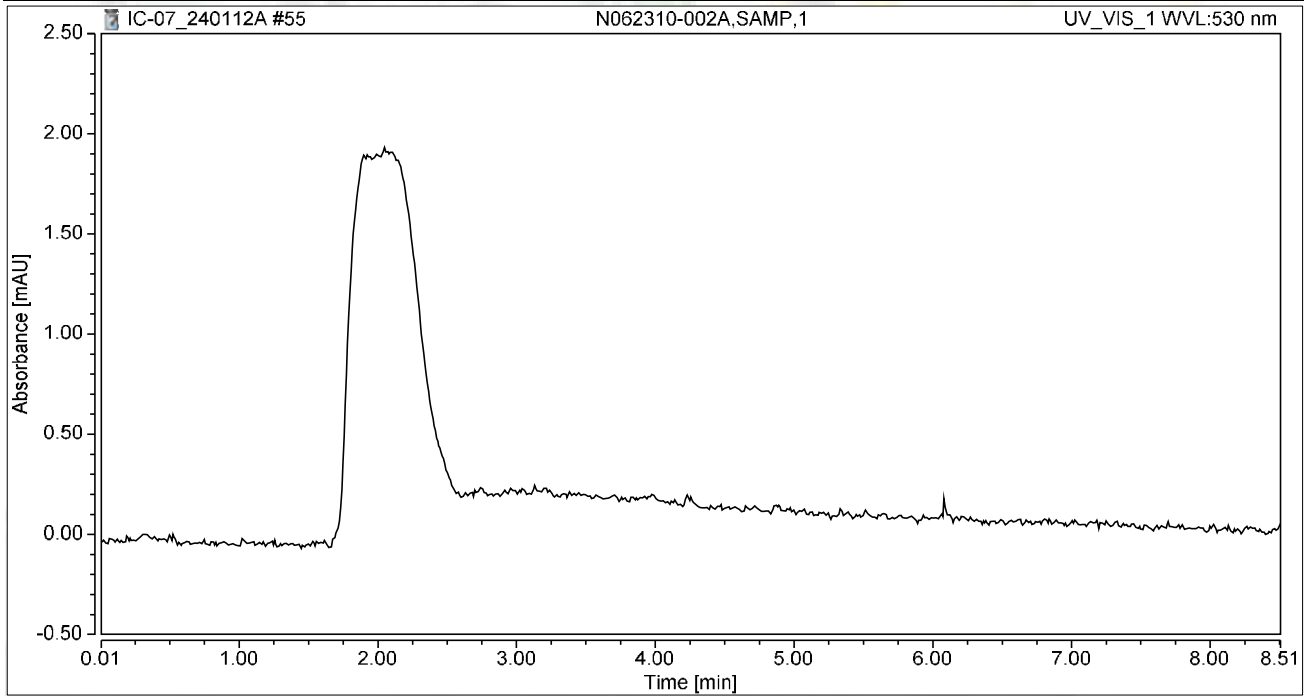
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.027	0.158	100.00	100.00	0.1292
Total:			0.027	0.158	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 18:51	Sample Weight:	1.0000

Chromatogram



Integration Results

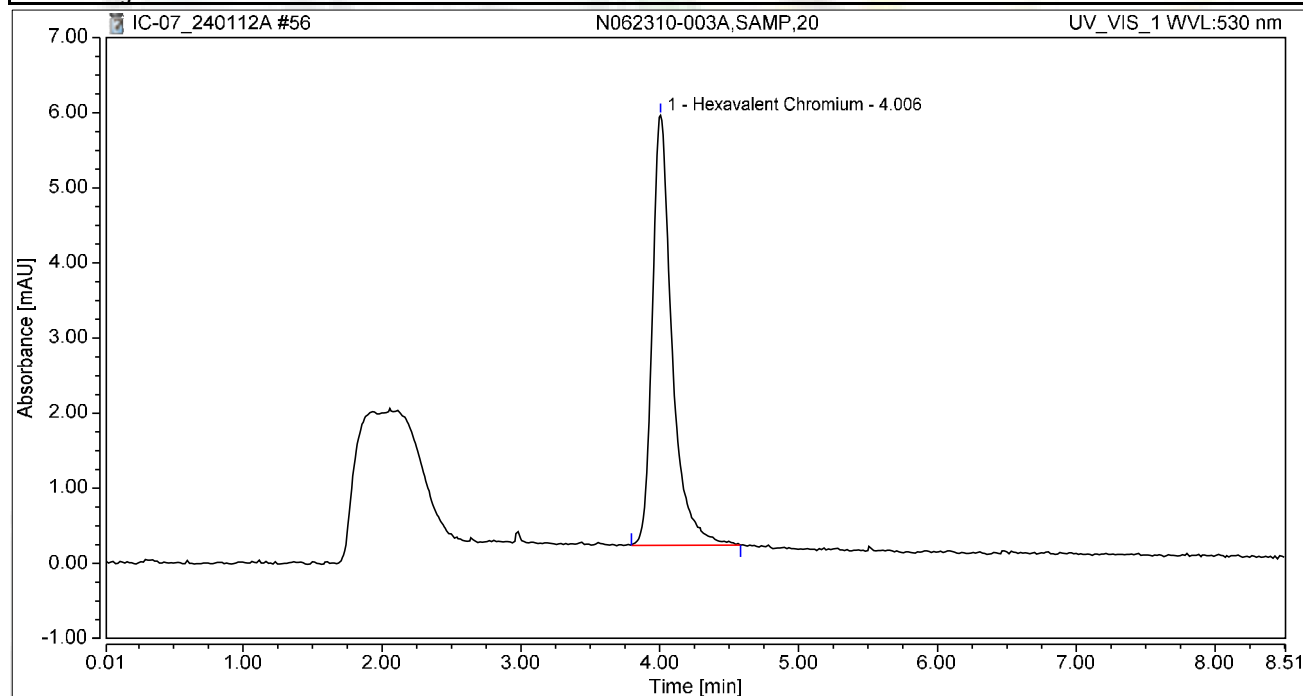
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062310-003A,SAMP,20	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:01	Sample Weight:	1.0000

Chromatogram



Integration Results

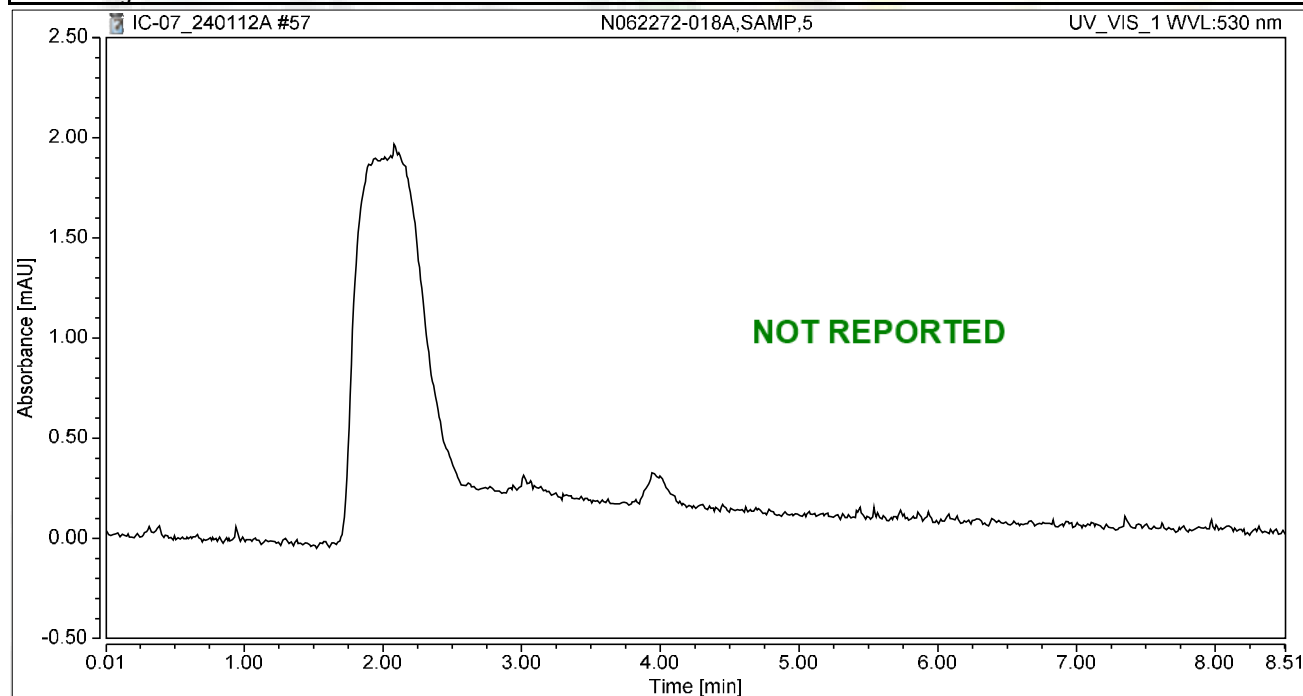
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.940	5.720	100.00	100.00	4.5189
Total:			0.940	5.720	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018A,SAMP,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:10	Sample Weight:	1.0000

Chromatogram



Integration Results

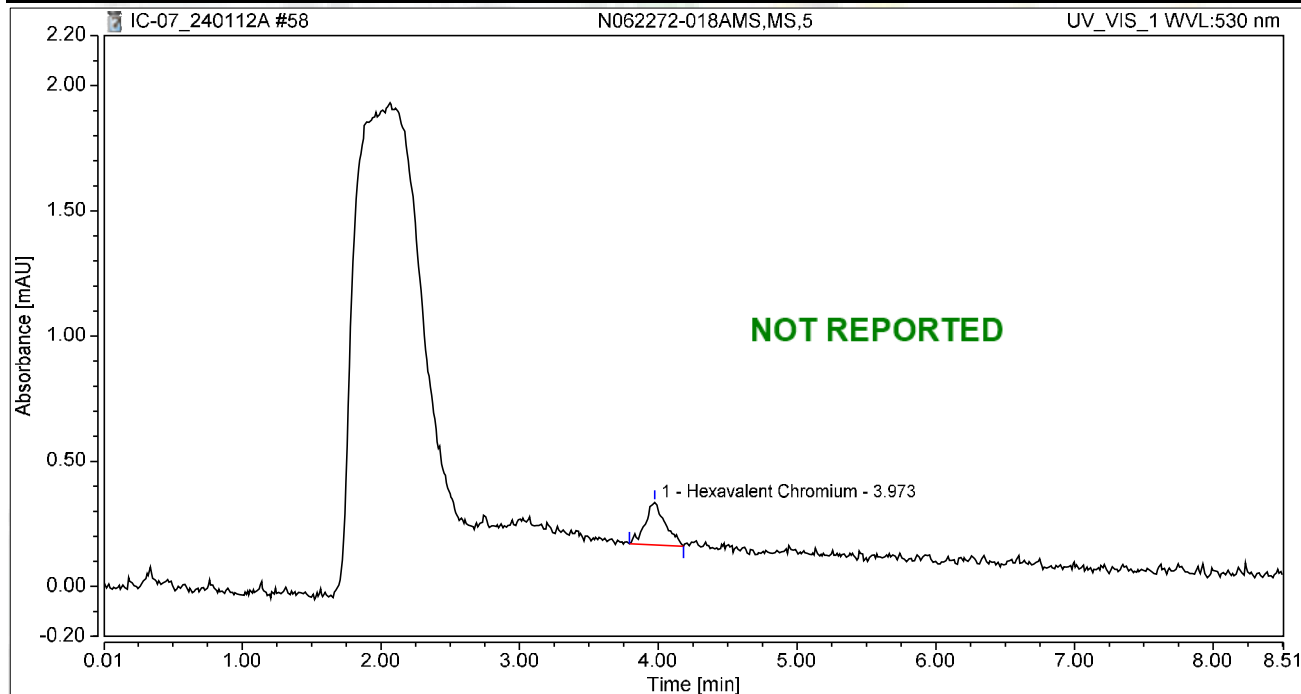
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018AMS,MS,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:20	Sample Weight:	1.0000

Chromatogram



Integration Results

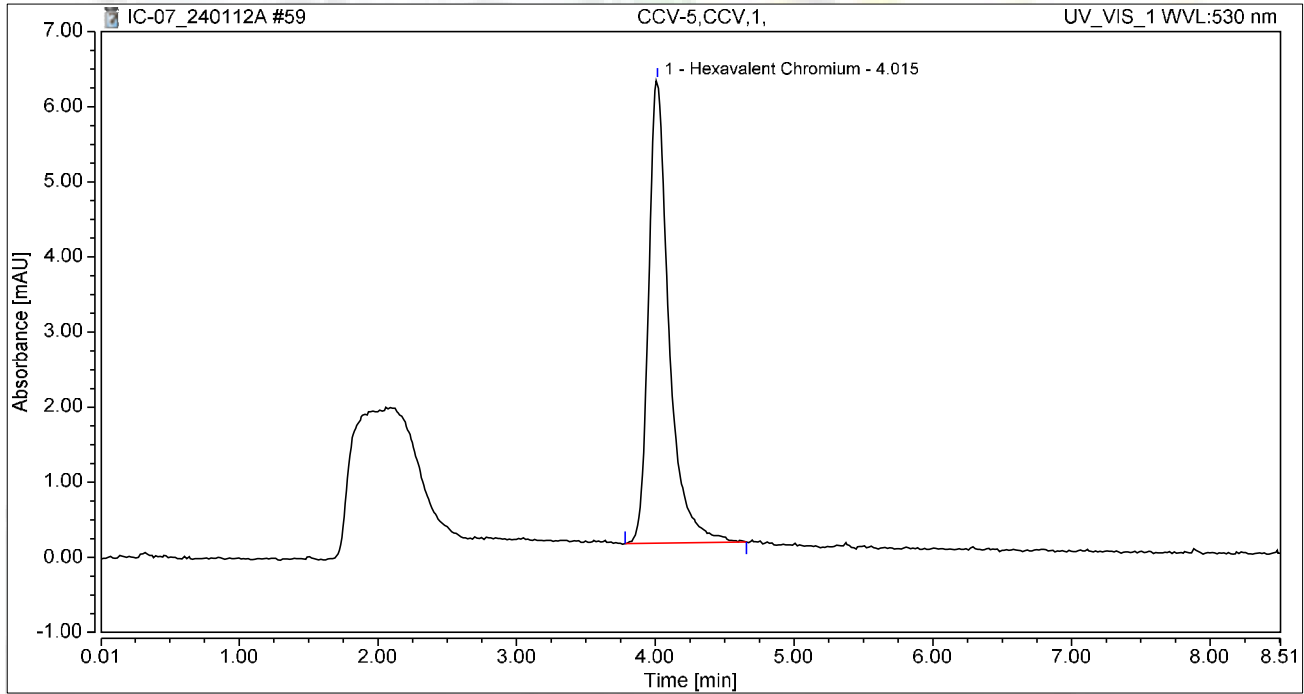
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.029	0.171	100.00	100.00	0.1375
Total:			0.029	0.171	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:29	Sample Weight:	1.0000

Chromatogram



Integration Results

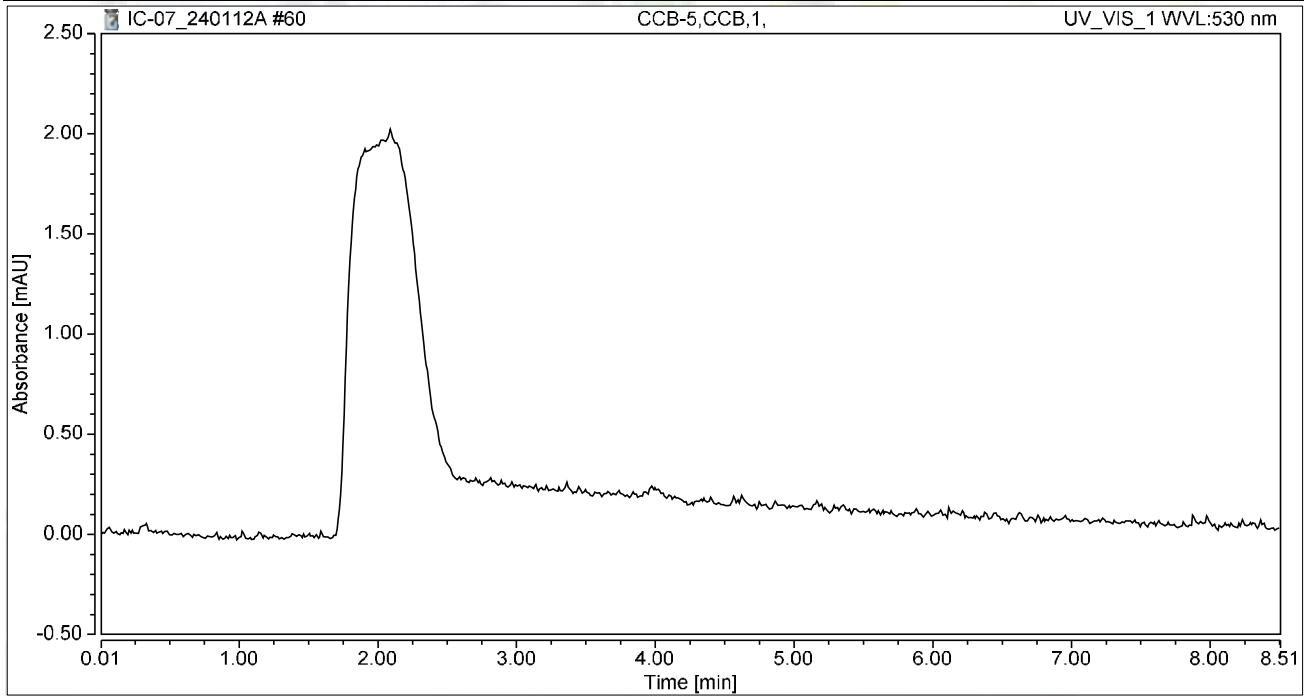
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.056	6.167	100.00	100.00	5.0733
Total:			1.056	6.167	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:39	Sample Weight:	1.0000

Chromatogram



Integration Results

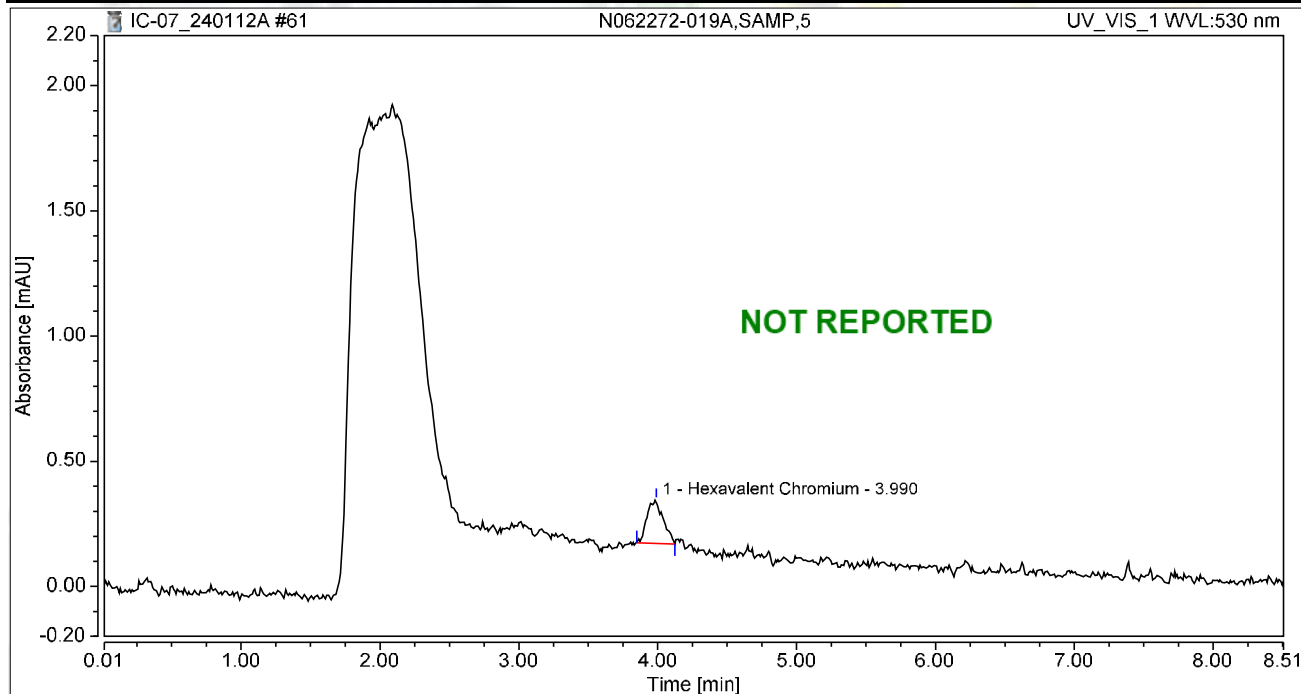
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019A,SAMP,5	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:48	Sample Weight:	1.0000

Chromatogram



Integration Results

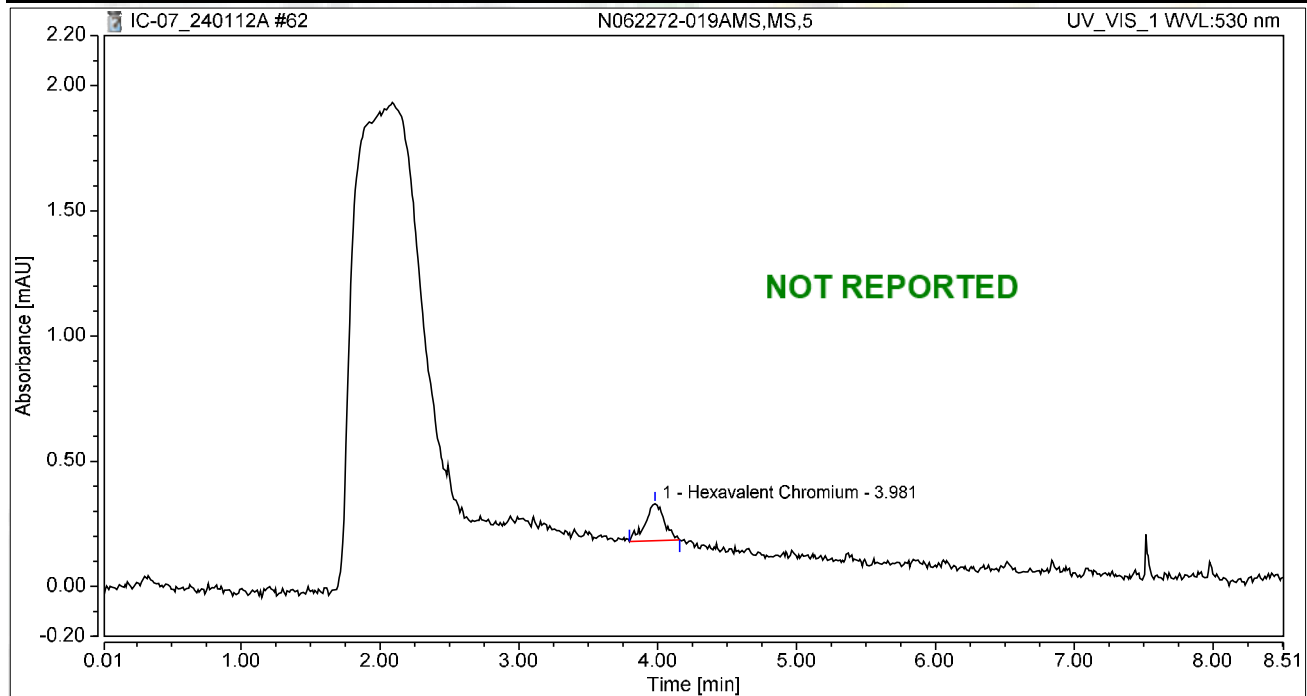
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.023	0.173	100.00	100.00	0.1123
Total:			0.023	0.173	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 19:57	Sample Weight:	1.0000

Chromatogram



Integration Results

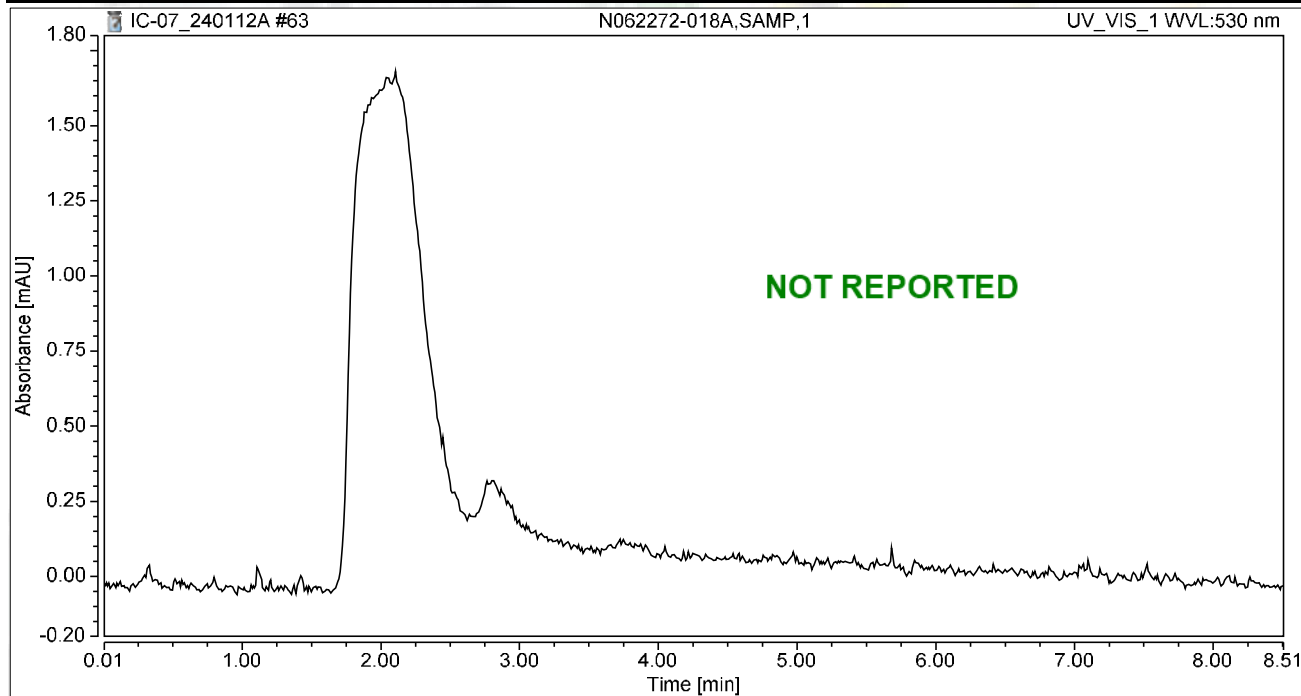
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.023	0.148	100.00	100.00	0.1126
Total:			0.023	0.148	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:07	Sample Weight:	1.0000

Chromatogram



Integration Results

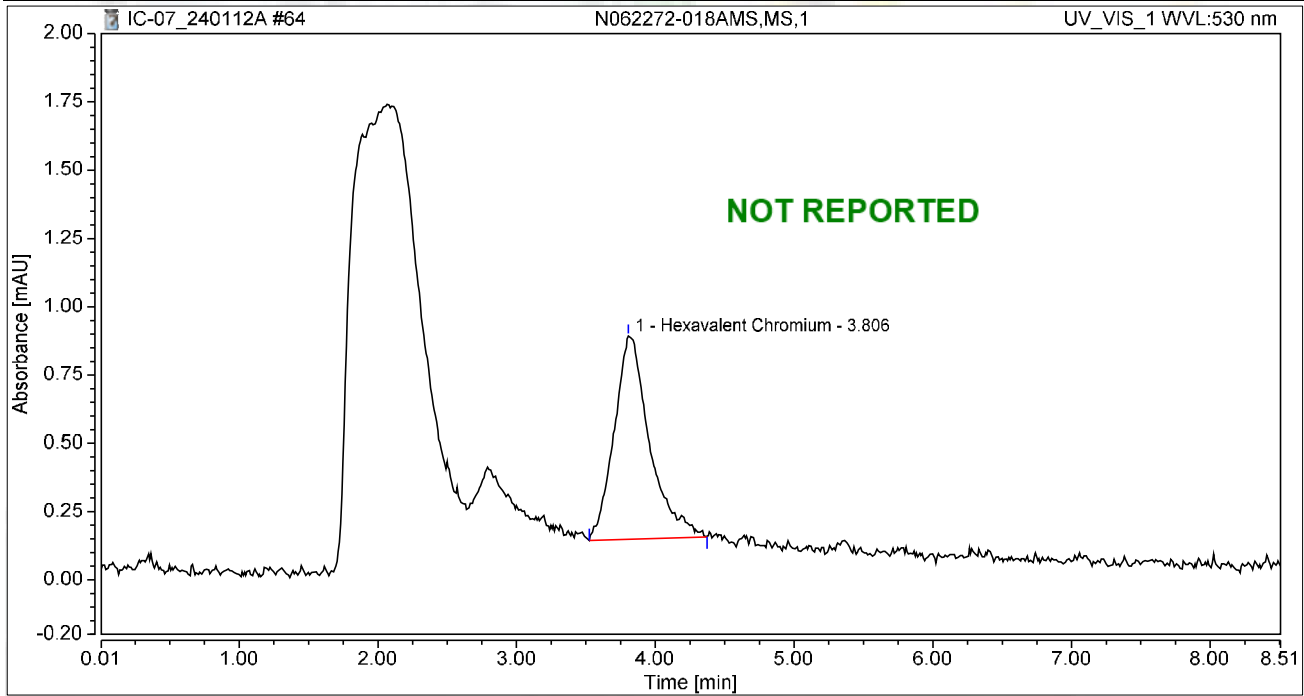
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062272-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:16	Sample Weight:	1.0000

Chromatogram



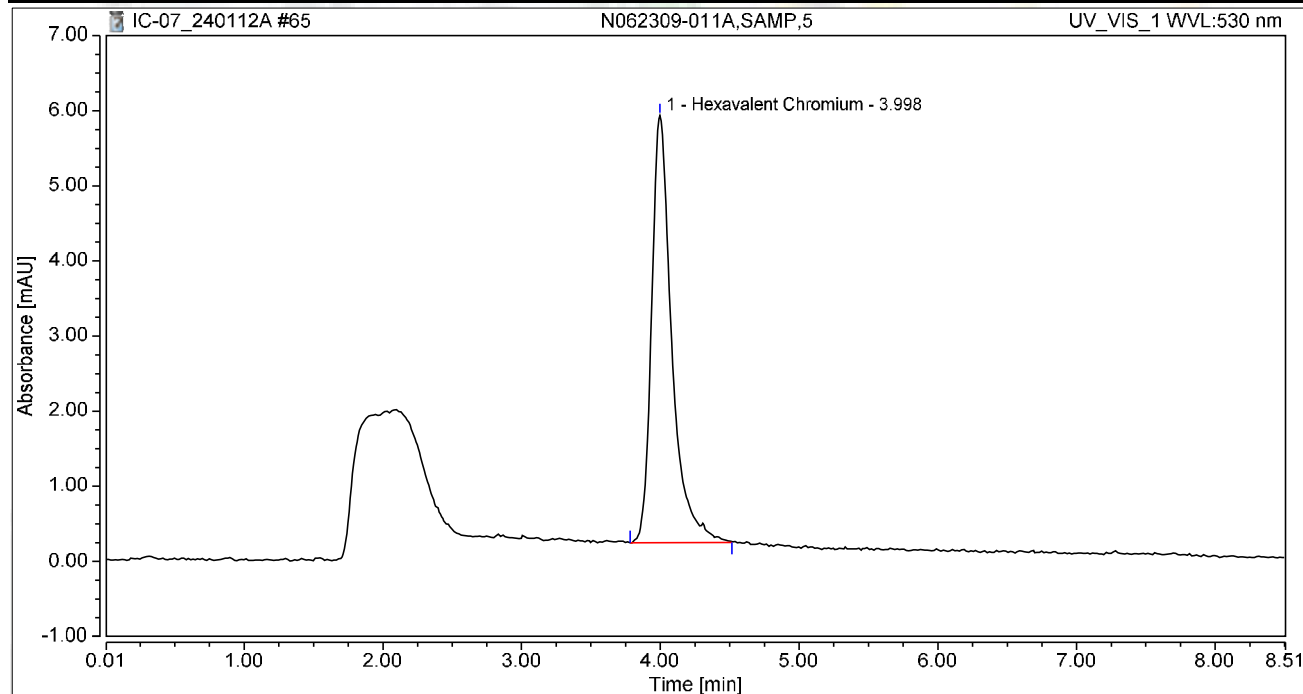
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.221	0.744	100.00	100.00	1.0611
Total:			0.221	0.744	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062309-011A,SAMP,5	Run Time (min): 8.50
Vial Number:	22	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 20:26	Sample Weight: 1.0000

Chromatogram



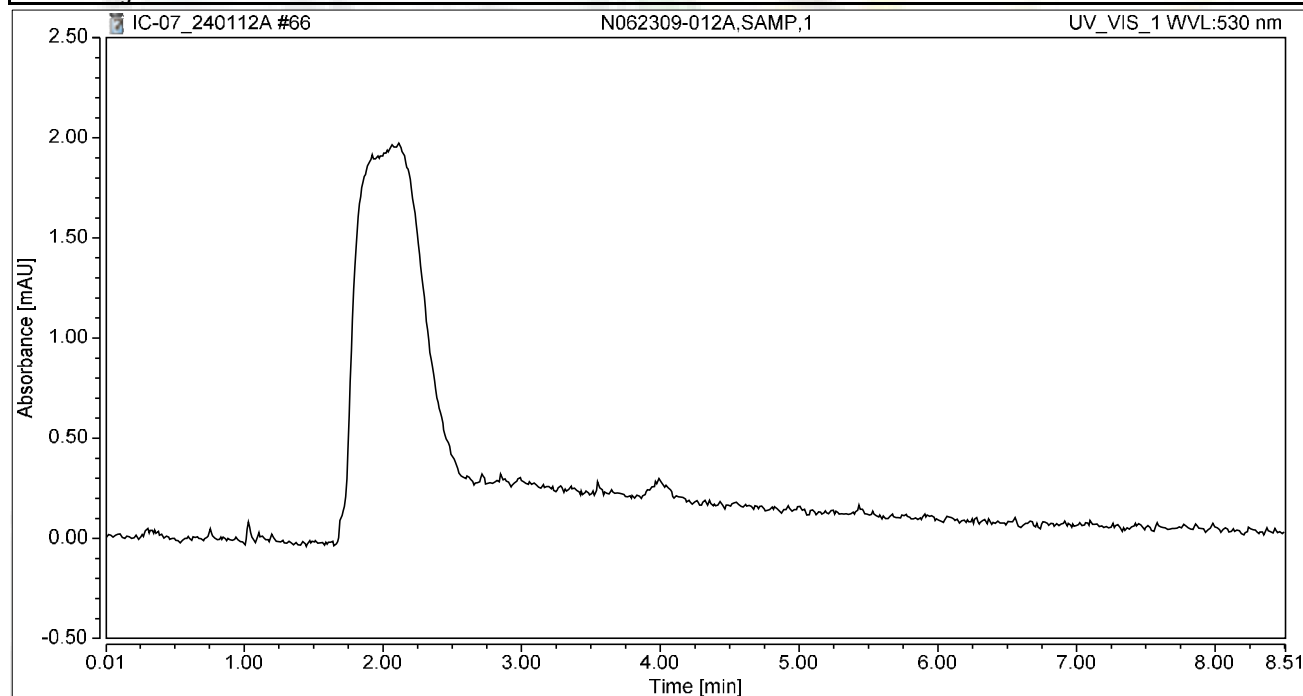
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.962	5.689	100.00	100.00	4.6251
Total:			0.962	5.689	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:35	Sample Weight:	1.0000

Chromatogram



Integration Results

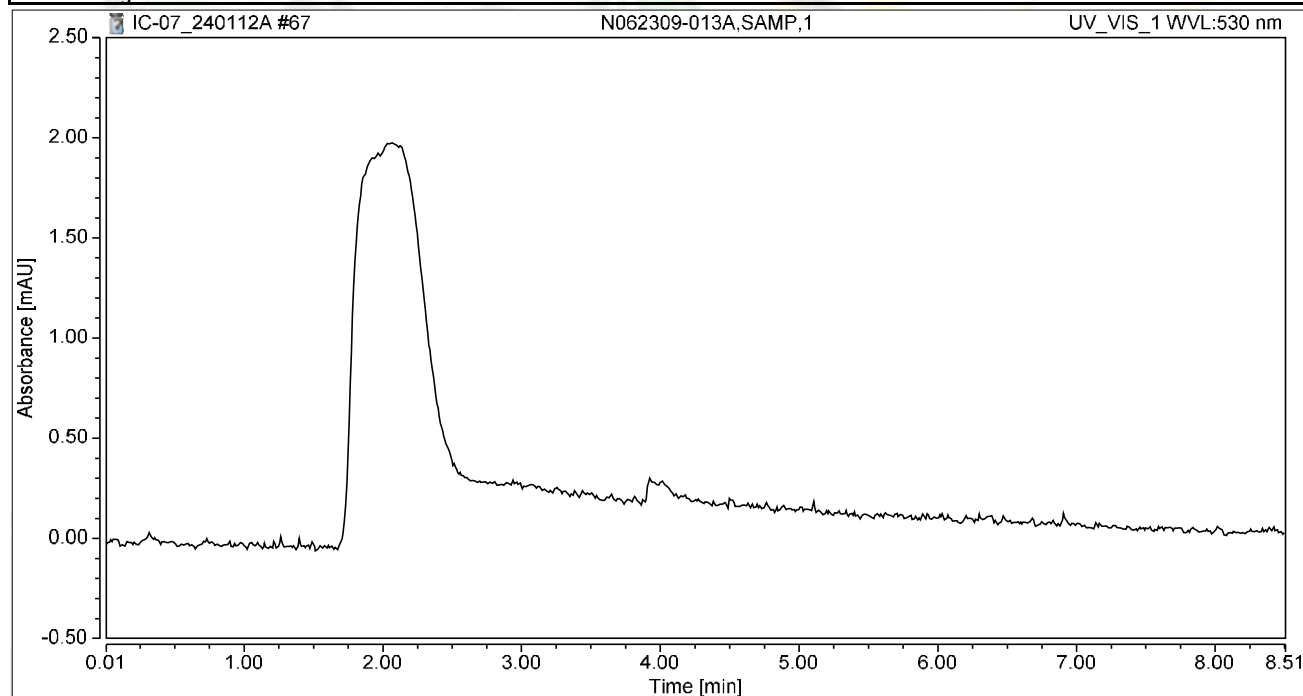
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062309-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 20:45	Sample Weight:	1.0000

Chromatogram



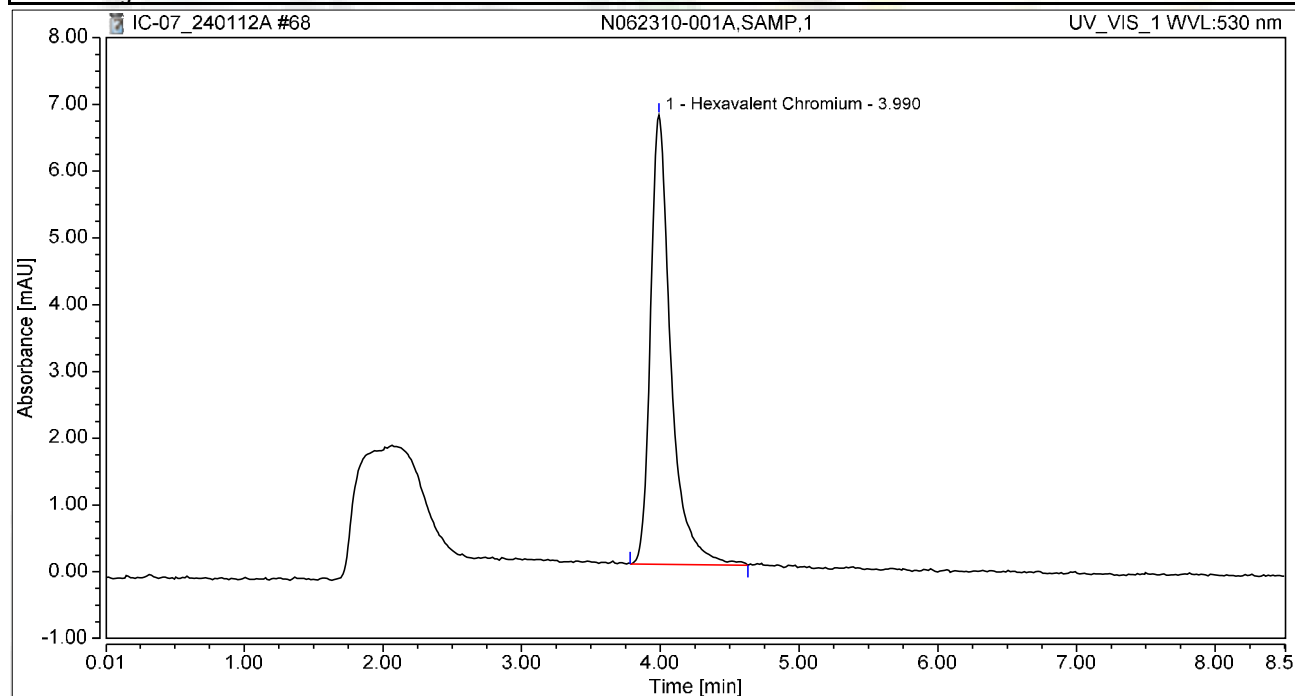
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062310-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	25	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Jan/24 20:54	Sample Weight: 1.0000

Chromatogram



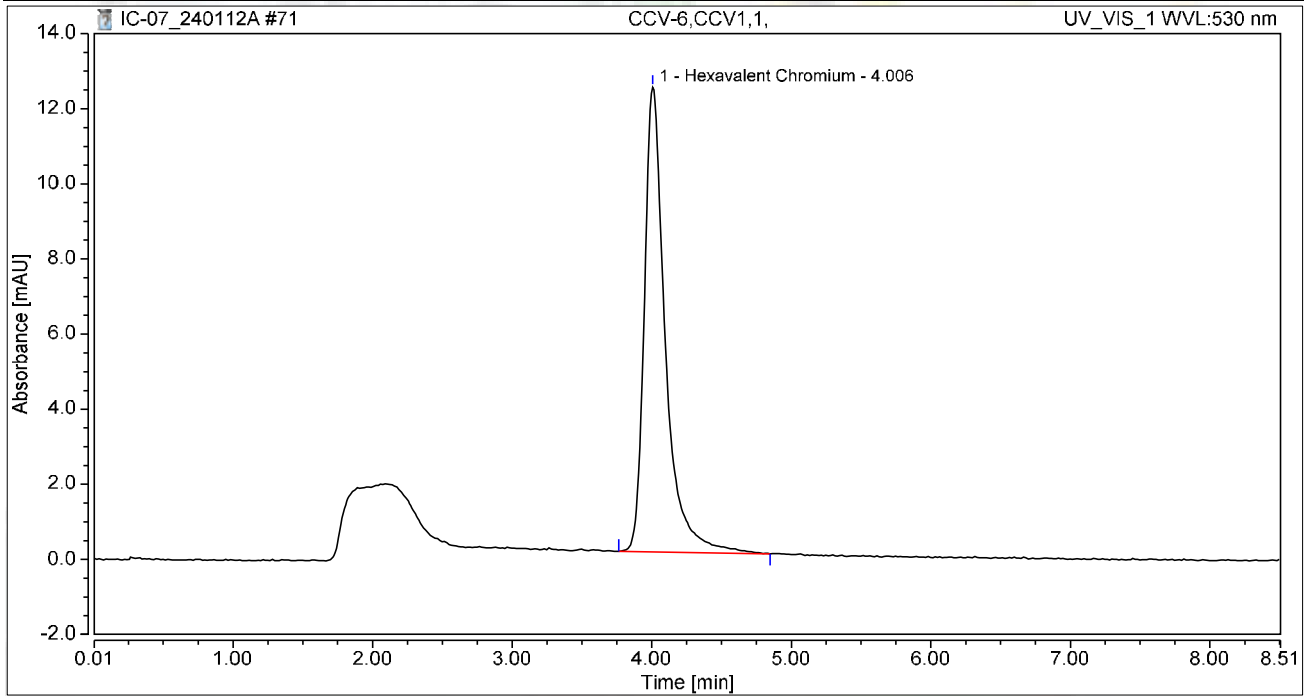
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.147	6.727	100.00	100.00	5.5100
Total:			1.147	6.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 21:23	Sample Weight:	1.0000

Chromatogram



Integration Results

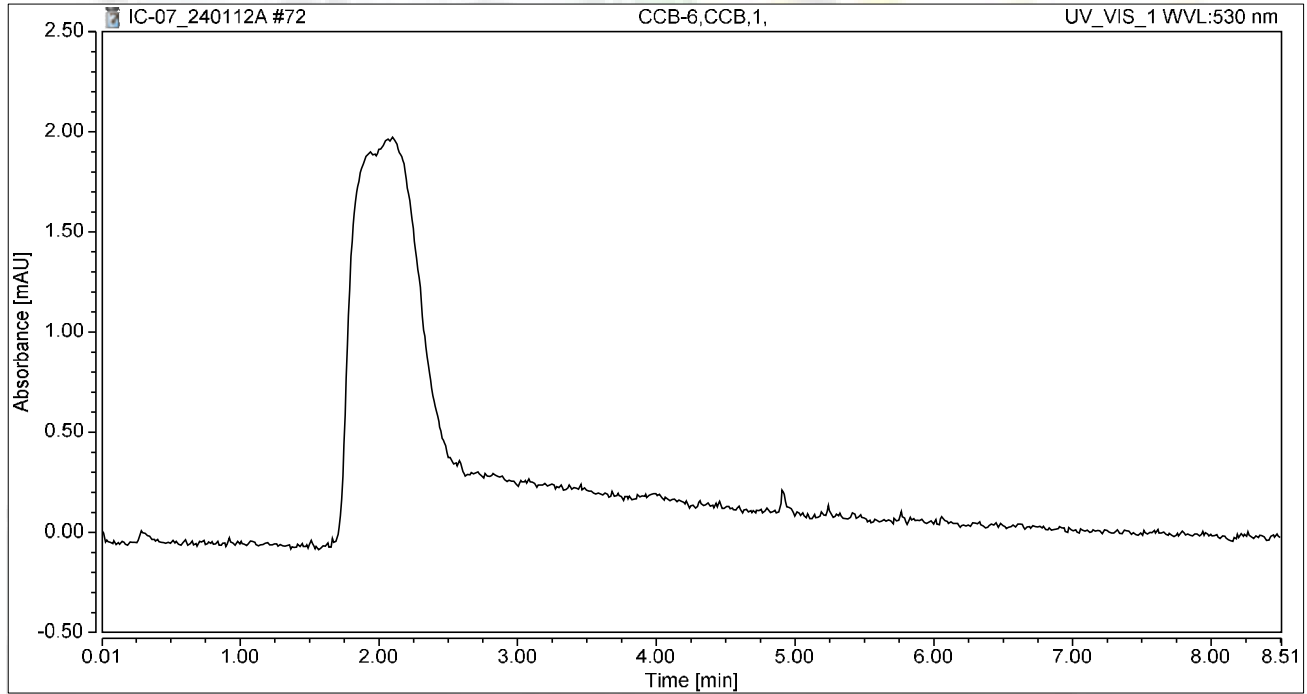
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	2.160	12.370	100.00	100.00	10.3804
Total:			2.160	12.370	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Jan/24 21:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



jrb 1/15/2024

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
 ASSET #: N062311

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer KDG 1/14/2024

Date: —
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Chromium concentration, in ug/L in the original sample as follows:

$$\text{Chromium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062311-001B**, the concentration in ug/L is calculated as follows:


$$\text{Chromium, ug/L} = 27.0197 * 1 * (25 / 25)$$

$$\text{Chromium, ug/L} = 27.0197$$

Reporting results in two significant figures,

$$\text{Chromium, ug/L} = 27$$

Reviewed by:

 1/25/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	21.568	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	3.517	15	PASS
Std3-5/50 ppb	ICAL	1	4.69	0.937	15	PASS
Std4-10/100 ppb	ICAL	1	9.67	0.4	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.39	0.989	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.87	1.212	15	PASS
Std7-100/1000 ppb	ICAL	1	99.24	0.643	15	PASS
Std8-200/2000 ppb	ICAL	1	200.49	0.579	15	PASS
ICV	ICV	1	10.18	0.884	15	PASS
ICV	ICV	1	10.07	0.335	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.05	4.173	20	PASS
LLICV1	LLICV	1	0.93	2.115	20	PASS
MLCCV	CCV	1	19.33	1.76	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.34	1.768	15	PASS
CCV1	CCV	1	19.33	2.207	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.71	1.143	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.79	0.335	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.58	0.389	15	PASS
CCV4	CCV	1	19.71	1.191	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.83	3.334	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.96	1.492	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.57	1.989	15	PASS
CCV7	CCV	1	19.84	0.491	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.47	1.463	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.56	1.367	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.17	1.59	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	19.53	1.009	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.6	0.384	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
CCV12	CCV	1	19.34	1.796	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.14	1.108	15	PASS
MB-105986	MBLK	1	<0.000	N/A	15	<PQL
LCS-105986	LCS	1	9.79	1.245	15	PASS
N062311-001B	SAMP	1	27.02	1.21	15	PASS
CCV13	CCV	1	19.62	1.526	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL
N062312-001C	SAMP	1	26.57	1.32	15	PASS
N062312-002C	SAMP	1	0.54	5.506	15	PASS
N062312-003C	SAMP	1	0.87	3.928	15	PASS
N062312-004C	SAMP	1	0.03	24.799	15	<PQL
N062312-005C	SAMP	1	0.15	7.702	15	PASS
N062312-006C	SAMP	1	8.11	1.206	15	PASS
N062312-006C	SAMP	5	2.79	2.661	15	PASS
N062312-006C-PS	PS	1	17.27	1.714	15	PASS
N062312-006CMS	MS	1	17.1	1.103	15	PASS
CCV14	CCV	1	19.33	1.444	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL
N062312-006CMSD	MSD	1	17.25	1.786	15	PASS
N062312-007C	SAMP	1	24.24	2.12	15	PASS
N062312-008C	SAMP	1	2.64	1.229	15	PASS
N062312-010C	SAMP	1	0.72	4.422	15	PASS
N062312-011C	SAMP	1	0.77	0.973	15	PASS
N062312-012C	SAMP	1	565.69	0.808	15	PASS
N062312-013C	SAMP	1	27.73	0.361	15	PASS
N062312-014C	SAMP	1	191.39	0.915	15	PASS
N062312-015C	SAMP	1	8.47	0.461	15	PASS
CCV15	CCV	1	19.37	0.901	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL
N062312-016C	SAMP	1	2.82	2.244	15	PASS
N062312-017C	SAMP	1	5.68	4.742	15	PASS
N062312-018C	SAMP	1	0.34	4.413	15	PASS
CCV16	CCV	1	19.45	0.596	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSAB6	ICSAB	1	20.44	0.292	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111001.d	RINSE	ICAL	1	01/11/24 1:07 PM
A0111002.d	RINSE	ICAL	1	01/11/24 1:12 PM
A0111003.d	Cal Blk	IBLK	1	01/11/24 1:17 PM
A0111004.d	Std1-0.1/1 ppb	ICAL	1	01/11/24 1:21 PM
A0111005.d	Std2-0.5/5 ppb	ICAL	1	01/11/24 1:26 PM
A0111006.d	Std3-5/50 ppb	ICAL	1	01/11/24 1:31 PM
A0111007.d	Std4-10/100 ppb	ICAL	1	01/11/24 1:36 PM
A0111008.d	Std5-4.0/20/200 ppb	ICAL	1	01/11/24 1:40 PM
A0111009.d	Std6-8.0/40/400 ppb	ICAL	1	01/11/24 1:45 PM
A0111010.d	Std7-100/1000 ppb	ICAL	1	01/11/24 1:50 PM
A0111011.d	Std8-200/2000 ppb	ICAL	1	01/11/24 1:55 PM
A0111012.d	ICV	ICV	1	01/11/24 2:12 PM
A0111013.d	ICV	ICV	1	01/11/24 2:16 PM
A0111014.d	ICB	ICB	1	01/11/24 2:21 PM
A0111015.d	LLICV1	LLICV	1	01/11/24 2:26 PM
A0111016.d	LLICV1	LLICV	1	01/11/24 2:31 PM
A0111017.d	MLCCV	CCV	1	01/11/24 2:38 PM
A0111018.d	ICSA1	ICSA	1	01/11/24 2:42 PM
A0111019.d	ICSAB1	ICSAB	1	01/11/24 2:47 PM
A0111020.d	N062244-003D	SAMP	10	01/11/24 2:52 PM
A0111021.d	N062244-003D	SAMP	50	01/11/24 2:56 PM
A0111022.d	N062244-003D-PS	PS	10	01/11/24 3:01 PM
A0111023.d	N062244-003D-MS	MS	10	01/11/24 3:06 PM
A0111024.d	N062244-003D-MSD	MSD	10	01/11/24 3:10 PM
A0111025.d	N062245-001D	SAMP	10	01/11/24 3:15 PM
A0111026.d	N062245-002D	SAMP	10	01/11/24 3:20 PM
A0111027.d	N062245-003D	SAMP	10	01/11/24 3:24 PM
A0111028.d	N062245-006D	SAMP	10	01/11/24 3:29 PM
A0111029.d	CCV1	CCV	1	01/11/24 3:33 PM
A0111030.d	CCB1	CCB	1	01/11/24 3:38 PM
A0111031.d	N062245-009D	SAMP	1	01/11/24 3:43 PM
A0111032.d	N062245-010D	SAMP	1	01/11/24 3:47 PM
A0111033.d	N062245-012D	SAMP	1	01/11/24 3:52 PM
A0111034.d	N062243-002E	SAMP	1	01/11/24 3:57 PM
A0111035.d	N062241-004C	SAMP	1	01/11/24 4:01 PM
A0111036.d	N062241-006C	SAMP	10	01/11/24 4:06 PM
A0111037.d	N062239-001C	SAMP	100	01/11/24 4:11 PM
A0111038.d	N062239-001C	SAMP	500	01/11/24 4:15 PM
A0111039.d	N062239-001C-PS	PS	100	01/11/24 4:20 PM
A0111040.d	N062239-001C-MS	MS	100	01/11/24 4:25 PM
A0111041.d	CCV2	CCV	1	01/11/24 4:29 PM
A0111042.d	CCB2	CCB	1	01/11/24 4:34 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111043.d	N062239-001C-MSD	MSD	100	01/11/24 4:38 PM
A0111044.d	N062245-006D	SAMP	100	01/11/24 4:43 PM
A0111045.d	N062245-009D	SAMP	1	01/11/24 4:48 PM
A0111046.d	N062245-010D	SAMP	1	01/11/24 4:52 PM
A0111047.d	N062245-010D	SAMP	1	01/11/24 4:57 PM
A0111048.d	N062245-010D	SAMP	1	01/11/24 5:02 PM
A0111049.d	N062245-010D	SAMP	1	01/11/24 5:06 PM
A0111050.d	CCV3	CCV	1	01/11/24 5:11 PM
A0111051.d	CCB3	CCB	1	01/11/24 5:16 PM
A0111052.d	ICSA2	ICSA	1	01/11/24 5:20 PM
A0111053.d	ICSAB2	ICSAB	1	01/11/24 5:25 PM
A0111054.d	N062274-001B	SAMP	10	01/11/24 5:30 PM
A0111055.d	N062274-002B	SAMP	10	01/11/24 5:34 PM
A0111056.d	N062274-003B	SAMP	10	01/11/24 5:39 PM
A0111057.d	N062278-002D	SAMP	1	01/11/24 5:44 PM
A0111058.d	N062278-002D	SAMP	100	01/11/24 5:48 PM
A0111059.d	N062278-002D	SAMP	500	01/11/24 5:53 PM
A0111060.d	N062278-002D-PS	PS	100	01/11/24 5:58 PM
A0111061.d	N062278-002D-MS	MS	100	01/11/24 6:02 PM
A0111062.d	N062278-002D-MSD	MSD	100	01/11/24 6:07 PM
A0111063.d	N062278-003D	SAMP	100	01/11/24 6:11 PM
A0111064.d	CCV4	CCV	1	01/11/24 6:16 PM
A0111065.d	CCB4	CCB	1	01/11/24 6:21 PM
A0111066.d	N062278-004D	SAMP	10	01/11/24 6:25 PM
A0111067.d	N062278-005D	SAMP	100	01/11/24 6:30 PM
A0111068.d	N062278-008D	SAMP	10	01/11/24 6:35 PM
A0111069.d	N062278-009D	SAMP	100	01/11/24 6:39 PM
A0111070.d	N062278-011D	SAMP	1	01/11/24 6:44 PM
A0111071.d	N062279-023D	SAMP	1	01/11/24 6:49 PM
A0111072.d	N062279-005D	SAMP	10	01/11/24 6:53 PM
A0111073.d	N062279-006D	SAMP	10	01/11/24 6:58 PM
A0111074.d	N062279-008D	SAMP	1	01/11/24 7:03 PM
A0111075.d	N062279-008D	SAMP	10	01/11/24 7:07 PM
A0111076.d	CCV5	CCV	1	01/11/24 7:12 PM
A0111077.d	CCB5	CCB	1	01/11/24 7:17 PM
A0111078.d	N062272-002C	SAMP	10	01/11/24 7:21 PM
A0111079.d	N062272-007C	SAMP	10	01/11/24 7:26 PM
A0111080.d	N062272-008C	SAMP	10	01/11/24 7:31 PM
A0111081.d	N062272-015C	SAMP	1	01/11/24 7:35 PM
A0111082.d	N062272-018C	SAMP	1	01/11/24 7:40 PM
A0111083.d	N062272-019C	SAMP	10	01/11/24 7:45 PM
A0111084.d	N062279-023D	SAMP	1	01/11/24 7:51 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111085.d	N062272-015C	SAMP	1	01/11/24 7:55 PM
A0111086.d	N062272-018C	SAMP	1	01/11/24 8:00 PM
A0111087.d	RINSE	ICAL	1	01/11/24 8:05 PM
A0111088.d	CCV6	CCV	1	01/11/24 8:09 PM
A0111089.d	CCB6	CCB	1	01/11/24 8:14 PM
A0111090.d	ICSA3	ICSA	1	01/11/24 8:19 PM
A0111091.d	ICSAB3	ICSAB	1	01/11/24 8:23 PM
A0111092.d	MB-105984	MBLK	1	01/11/24 8:28 PM
A0111093.d	LCS-105984	LCS	1	01/11/24 8:33 PM
A0111094.d	N062307-001B	SAMP	1	01/11/24 8:37 PM
A0111095.d	N062309-001B	SAMP	1	01/11/24 8:42 PM
A0111096.d	N062309-002D	SAMP	1	01/11/24 8:46 PM
A0111097.d	N062309-003D	SAMP	1	01/11/24 8:51 PM
A0111098.d	N062309-004D	SAMP	1	01/11/24 8:56 PM
A0111099.d	N062309-005D	SAMP	1	01/11/24 9:00 PM
A0111100.d	N062309-006D	SAMP	1	01/11/24 9:05 PM
A0111101.d	RINSE	ICAL	1	01/11/24 9:10 PM
A0111102.d	CCV7	CCV	1	01/11/24 9:14 PM
A0111103.d	CCB7	CCB	1	01/11/24 9:19 PM
A0111104.d	N062309-007D	SAMP	1	01/11/24 9:24 PM
A0111105.d	N062309-007D	SAMP	5	01/11/24 9:28 PM
A0111106.d	N062309-007D-PS	PS	1	01/11/24 9:33 PM
A0111107.d	N062309-007DMS	MS	1	01/11/24 9:38 PM
A0111108.d	N062309-007DMSD	MSD	1	01/11/24 9:42 PM
A0111109.d	N062309-008D	SAMP	1	01/11/24 9:47 PM
A0111110.d	N062309-008D	SAMP	5	01/11/24 9:51 PM
A0111111.d	N062309-008D-PS	PS	1	01/11/24 9:56 PM
A0111112.d	N062309-008DMS	MS	1	01/11/24 10:01 PM
A0111113.d	RINSE	ICAL	1	01/11/24 10:05 PM
A0111114.d	CCV8	CCV	1	01/11/24 10:10 PM
A0111115.d	CCB8	CCB	1	01/11/24 10:15 PM
A0111116.d	N062309-008DMSD	MSD	1	01/11/24 10:19 PM
A0111117.d	N062309-009D	SAMP	1	01/11/24 10:24 PM
A0111118.d	N062309-010D	SAMP	1	01/11/24 10:29 PM
A0111119.d	N062309-011D	SAMP	1	01/11/24 10:33 PM
A0111120.d	N062309-012D	SAMP	1	01/11/24 10:38 PM
A0111121.d	N062310-001D	SAMP	1	01/11/24 10:43 PM
A0111122.d	N062310-002D	SAMP	1	01/11/24 10:47 PM
A0111123.d	N062310-003D	SAMP	1	01/11/24 10:52 PM
A0111124.d	N062310-004D	SAMP	1	01/11/24 10:57 PM
A0111125.d	RINSE	ICAL	1	01/11/24 11:01 PM
A0111126.d	CCV9	CCV	1	01/11/24 11:06 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111127.d	CCB9	CCB	1	01/11/24 11:11 PM
A0111128.d	ICSA4	ICSA	1	01/11/24 11:15 PM
A0111129.d	ICSAB4	ICSAB	1	01/11/24 11:20 PM
A0111130.d	N062310-005B	SAMP	1	01/11/24 11:24 PM
A0111131.d	N062310-006B	SAMP	1	01/11/24 11:29 PM
A0111132.d	N062310-007B	SAMP	1	01/11/24 11:34 PM
A0111133.d	MB-105985	MBLK	1	01/11/24 11:38 PM
A0111134.d	LCS-105985	LCS	1	01/11/24 11:43 PM
A0111135.d	N062310-008D	SAMP	1	01/11/24 11:48 PM
A0111136.d	N062310-009B	SAMP	1	01/11/24 11:52 PM
A0111137.d	N062310-010B	SAMP	1	01/11/24 11:57 PM
A0111138.d	N062310-011B	SAMP	1	01/12/24 12:02 AM
A0111139.d	RINSE	ICAL	1	01/12/24 12:06 AM
A0111140.d	CCV10	CCV	1	01/12/24 12:11 AM
A0111141.d	CCB10	CCB	1	01/12/24 12:16 AM
A0111142.d	N062310-012B	SAMP	1	01/12/24 12:20 AM
A0111143.d	N062310-013B	SAMP	1	01/12/24 12:25 AM
A0111144.d	N062310-014B	SAMP	1	01/12/24 12:30 AM
A0111145.d	N062310-015D	SAMP	1	01/12/24 12:34 AM
A0111146.d	N062310-016D	SAMP	1	01/12/24 12:39 AM
A0111147.d	N062310-016D	SAMP	5	01/12/24 12:44 AM
A0111148.d	N062310-016D-PS	PS	1	01/12/24 12:48 AM
A0111149.d	N062310-016DMS	MS	1	01/12/24 12:53 AM
A0111150.d	N062310-016DMSD	MSD	1	01/12/24 12:58 AM
A0111151.d	RINSE	ICAL	1	01/12/24 1:02 AM
A0111152.d	CCV11	CCV	1	01/12/24 1:07 AM
A0111153.d	CCB11	CCB	1	01/12/24 1:12 AM
A0111154.d	N062310-017D	SAMP	1	01/12/24 1:16 AM
A0111155.d	N062310-018D	SAMP	1	01/12/24 1:21 AM
A0111156.d	N062310-019D	SAMP	1	01/12/24 1:25 AM
A0111157.d	N062310-019D	SAMP	5	01/12/24 1:30 AM
A0111158.d	N062310-019D-PS	PS	1	01/12/24 1:35 AM
A0111159.d	N062310-019DMS	MS	1	01/12/24 1:39 AM
A0111160.d	N062310-019DMSD	MSD	1	01/12/24 1:44 AM
A0111161.d	N062310-020D	SAMP	1	01/12/24 1:49 AM
A0111162.d	N062310-021D	SAMP	1	01/12/24 1:53 AM
A0111163.d	RINSE	ICAL	1	01/12/24 1:58 AM
A0111164.d	CCV12	CCV	1	01/12/24 2:03 AM
A0111165.d	CCB12	CCB	1	01/12/24 2:07 AM
A0111166.d	ICSA5	ICSA	1	01/12/24 2:12 AM
A0111167.d	ICSAB5	ICSAB	1	01/12/24 2:17 AM
A0111168.d	N062310-022D	SAMP	1	01/12/24 2:21 AM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111169.d	N062310-022D	SAMP	5	01/12/24 2:26 AM
A0111170.d	N062310-022D-PS	PS	1	01/12/24 2:31 AM
A0111171.d	N062310-022DMS	MS	1	01/12/24 2:35 AM
A0111172.d	N062310-022DMSD	MSD	1	01/12/24 2:40 AM
A0111173.d	N062310-023D	SAMP	1	01/12/24 2:45 AM
A0111174.d	MB-105986	MBLK	1	01/12/24 2:49 AM
A0111175.d	LCS-105986	LCS	1	01/12/24 2:54 AM
A0111176.d	N062311-001B	SAMP	1	01/12/24 2:59 AM
A0111177.d	RINSE	ICAL	1	01/12/24 3:03 AM
A0111178.d	CCV13	CCV	1	01/12/24 3:08 AM
A0111179.d	CCB13	CCB	1	01/12/24 3:13 AM
A0111180.d	N062312-001C	SAMP	1	01/12/24 3:17 AM
A0111181.d	N062312-002C	SAMP	1	01/12/24 3:22 AM
A0111182.d	N062312-003C	SAMP	1	01/12/24 3:27 AM
A0111183.d	N062312-004C	SAMP	1	01/12/24 3:31 AM
A0111184.d	N062312-005C	SAMP	1	01/12/24 3:36 AM
A0111185.d	N062312-006C	SAMP	1	01/12/24 3:41 AM
A0111186.d	N062312-006C	SAMP	5	01/12/24 3:45 AM
A0111187.d	N062312-006C-PS	PS	1	01/12/24 3:50 AM
A0111188.d	N062312-006CMS	MS	1	01/12/24 3:54 AM
A0111189.d	RINSE	ICAL	1	01/12/24 3:59 AM
A0111190.d	CCV14	CCV	1	01/12/24 4:04 AM
A0111191.d	CCB14	CCB	1	01/12/24 4:09 AM
A0111192.d	N062312-006CMSD	MSD	1	01/12/24 4:13 AM
A0111193.d	N062312-007C	SAMP	1	01/12/24 4:18 AM
A0111194.d	N062312-008C	SAMP	1	01/12/24 4:22 AM
A0111195.d	N062312-010C	SAMP	1	01/12/24 4:27 AM
A0111196.d	N062312-011C	SAMP	1	01/12/24 4:32 AM
A0111197.d	N062312-012C	SAMP	1	01/12/24 4:37 AM
A0111198.d	N062312-013C	SAMP	1	01/12/24 4:41 AM
A0111199.d	N062312-014C	SAMP	1	01/12/24 4:46 AM
A0111200.d	N062312-015C	SAMP	1	01/12/24 4:50 AM
A0111201.d	RINSE	ICAL	1	01/12/24 4:55 AM
A0111202.d	CCV15	CCV	1	01/12/24 5:00 AM
A0111203.d	CCB15	CCB	1	01/12/24 5:05 AM
A0111204.d	N062312-016C	SAMP	1	01/12/24 5:09 AM
A0111205.d	N062312-017C	SAMP	1	01/12/24 5:14 AM
A0111206.d	N062312-018C	SAMP	1	01/12/24 5:18 AM
A0111207.d	N062279-023D	SAMP	1	01/12/24 5:23 AM
A0111208.d	N062272-018C	SAMP	1	01/12/24 5:28 AM
A0111209.d	N062279-023D	SAMP	1	01/12/24 5:33 AM
A0111210.d	N062272-018C	SAMP	1	01/12/24 5:37 AM

INJECTION LOG: 240111A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111211.d	N062279-023D	SAMP	1	01/12/24 5:42 AM
A0111212.d	N062272-018C	SAMP	1	01/12/24 5:46 AM
A0111213.d	RINSE	ICAL	1	01/12/24 5:51 AM
A0111214.d	CCV16	CCV	1	01/12/24 5:56 AM
A0111215.d	CCB16	CCB	1	01/12/24 6:01 AM
A0111216.d	ICSA6	ICSA	1	01/12/24 6:05 AM
A0111217.d	ICSAB6	ICSAB	1	01/12/24 6:10 AM
A0111218.d	RINSE	ICAL	1	01/12/24 6:14 AM
A0111219.d	RINSE	ICAL	1	01/12/24 6:19 AM
A0111220.d	RINSE	ICAL	1	01/12/24 6:24 AM
A0111221.d	RINSE	ICAL	1	01/12/24 6:28 AM
A0111222.d	RINSE	ICAL	1	01/12/24 6:33 AM
A0111223.d	RINSE	ICAL	1	01/12/24 6:38 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:47:25 AM

Reviewed/ Date: *JRB* 1/25/2024

Page: 1 of 2

Prep End Date: 1/11/2024 4:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105986 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-04-36

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105986	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105986	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062311-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:47:25 AM

Prep End Date: 1/11/2024 4:00:00 PM

Prep Batch 105986 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 1/25/2024
for _____

Initials/ Date: _____

Technician: Diane Jetajobe

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): 95 Location: DB-04-36

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062312-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240110A1.b
Acq. Date-Time 2024-01-11 13:00:05
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

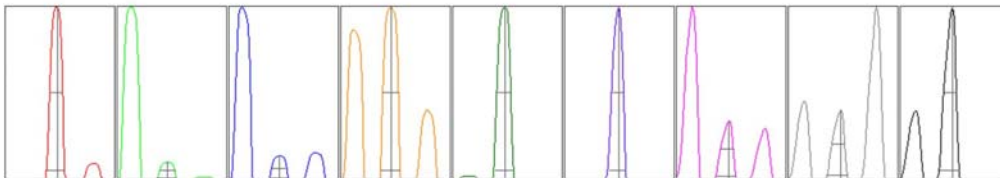
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	11260	112597.50	500.00		2.261	5.000
24	10.00	33485	334845.74	500.00		2.232	5.000
25	10.00	4451	44507.11	500.00		2.971	5.000
26	10.00	5071	50710.20	500.00		2.373	5.000
59	10.00	44551	445507.83	500.00		2.423	5.000
115	10.00	52369	523690.63	500.00		2.194	5.000
206	10.00	8641	86409.97	500.00		2.280	5.000
207	10.00	7351	73508.19	500.00		2.434	5.000
208	10.00	17964	179641.43	500.00		2.401	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.846 %
Doubly Charged 70 / 140 1.068 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11548.55	8.95	8.90 - 9.10	
24	34858.90	23.90	23.90 - 24.10	
25	4539.92	24.90	24.90 - 25.10	
26	5221.65	25.90	25.90 - 26.10	
59	44582.56	58.95	58.90 - 59.10	
115	52921.91	115.00	114.90 - 115.10	
206	8842.02	205.95	205.90 - 206.10	
207	7730.80	206.95	206.90 - 207.10	
208	19415.89	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.523	0.900	
25	0.41	0.497	0.900	
26	0.43	0.539	0.900	
59	0.39	0.534	0.900	
115	0.34	0.488	0.900	
206	0.36	0.547	0.900	
207	0.36	0.570	0.900	
208	0.36	0.565	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2489 V Pulse HV 1556 V

[H2]

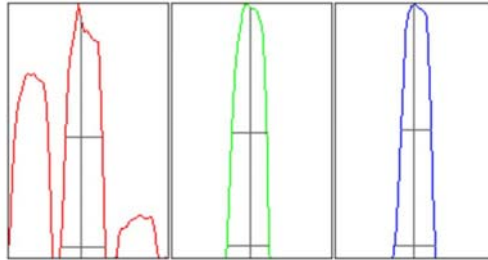
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		295	2950.86			6.274	
59		3519	35189.79			3.486	
115		45963	459634.94			2.276	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.661 %
 Doubly Charged 70 / 140 0.387 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	312.04	25.90	25.90 - 26.10	
59	3640.11	59.00	58.90 - 59.10	
115	47264.94	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.830	0.900	
59	0.66	0.786	0.900	
115	0.58	0.761	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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[He]

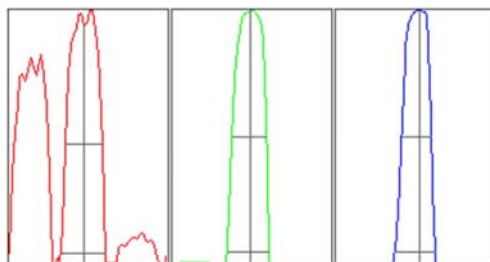
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		123	1226.24			9.347	
59		9311	93114.79			2.383	
115		9087	90868.91			2.840	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.295 %
Doubly Charged	70 / 140 1.165 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	117.26	25.95	25.90 - 26.10	
59	9307.29	59.00	58.90 - 59.10	
115	9150.72	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.66	0.785	0.900	
115	0.57	0.756	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240111A

Instrument ID: ICPMS-03

Analyte	Data File	A0111003.d	A0111005.d	A0111006.d	A0111007.d	A0111008.d	A0111009.d	A0111010.d	A0111011.d	
	Acq. Date-Time	01/11/2024 01:17 PM	01/11/2024 01:26 PM	01/11/2024 01:31 PM	01/11/2024 01:36 PM	01/11/2024 01:40 PM	01/11/2024 01:45 PM	01/11/2024 01:50 PM	01/11/2024 01:55 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	54104.9	52994.9	53388.3	53436.1	52906.7	53081.8	53161	52955.8	R
52 Cr [2]	CPS	197.8	1885.7	17642.7	36182.6	71640.2	147570.4	367563.4	739479.7	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619782							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.066	1.0	10.00	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ZZZZZZ	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619784							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.047	1.0	1.000	0	105	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619786							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.329	1.0	20.00	0	96.6	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619798							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.327	1.0	20.00	0	96.6	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619810							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.706	1.0	20.00	0	98.5	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619819							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.794	1.0	20.00	0	99.0	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.710	1.0	20.00	0	98.6	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619845							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.833	1.0	20.00	0	99.2	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619856							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.958	1.0	20.00	0	99.8	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619869							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.836	1.0	20.00	0	99.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619880							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.470	1.0	20.00	0	97.3	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619891							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.556	1.0	20.00	0	97.8	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619904							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.526	1.0	20.00	0	97.6	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619915							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.604	1.0	20.00	0	98.0	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.344	1.0	20.00	0	96.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV13	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.619	1.0	20.00	0	98.1	90	110				

Sample ID: CCV14	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619950							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.333	1.0	20.00	0	96.7	90	110				

Sample ID: CCV15	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619961							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.371	1.0	20.00	0	96.9	90	110				

Sample ID: CCV16	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCV	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619972							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.449	1.0	20.00	0	97.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619783						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619820						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB14	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: CCB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619787							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619788							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.339	1.0	20.00	0	102	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619821							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619822							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.582	1.0	20.00	0	103	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619858							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSAB	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619859							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.573	1.0	20.00	0	103	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619893							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSAB	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/11/2024	SeqNo: 5619894							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.169	1.0	20.00	0	101	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619928							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSAB	Batch ID: R180334	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5619929							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.136	1.0	20.00	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSA	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619974						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB6	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ICSAB	Batch ID: R180334	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.438	1.0	20.00	0	102	80	120				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	54104.9	54104.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53213.2	54104.9	98.35	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	52994.9	54104.9	97.95	PASS	30-150
Std3-5/50 ppb	ICAL	1	53388.3	54104.9	98.68	PASS	30-150
Std4-10/100 ppb	ICAL	1	53436.1	54104.9	98.76	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	52906.7	54104.9	97.79	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	53081.8	54104.9	98.11	PASS	30-150
Std7-100/1000 ppb	ICAL	1	53161	54104.9	98.26	PASS	30-150
Std8-200/2000 ppb	ICAL	1	52955.8	54104.9	97.88	PASS	30-150
ICV	ICV	1	51646.1	54104.9	95.46	PASS	30-150
ICV	ICV	1	51276.2	54104.9	94.77	PASS	30-150
ICB	ICB	1	51223.8	54104.9	94.67	PASS	30-150
LLICV1	LLICV	1	51353	54104.9	94.91	PASS	30-150
LLICV1	LLICV	1	51306.2	54104.9	94.83	PASS	30-150
MLCCV	CCV	1	52654.8	54104.9	97.32	PASS	30-150
ICSA1	ICSA	1	51493.5	54104.9	95.17	PASS	30-150
ICSAB1	ICSAB	1	51377.6	54104.9	94.96	PASS	30-150
CCV1	CCV	1	50765.7	54104.9	93.83	PASS	30-150
CCB1	CCB	1	50377.9	54104.9	93.11	PASS	30-150
CCV2	CCV	1	47925.1	54104.9	88.58	PASS	30-150
CCB2	CCB	1	47475.1	54104.9	87.75	PASS	30-150
CCV3	CCV	1	46958	54104.9	86.79	PASS	30-150
CCB3	CCB	1	46005.3	54104.9	85.03	PASS	30-150
ICSA2	ICSA	1	46753	54104.9	86.41	PASS	30-150
ICSAB2	ICSAB	1	46785.3	54104.9	86.47	PASS	30-150
CCV4	CCV	1	45890.5	54104.9	84.82	PASS	30-150
CCB4	CCB	1	45021.6	54104.9	83.21	PASS	30-150
CCV5	CCV	1	45156.4	54104.9	83.46	PASS	30-150
CCB5	CCB	1	44545.9	54104.9	82.33	PASS	30-150
CCV6	CCV	1	45623.2	54104.9	84.32	PASS	30-150
CCB6	CCB	1	44705.2	54104.9	82.63	PASS	30-150
ICSA3	ICSA	1	44997	54104.9	83.17	PASS	30-150
ICSAB3	ICSAB	1	44992.6	54104.9	83.16	PASS	30-150
CCV7	CCV	1	43552.1	54104.9	80.5	PASS	30-150
CCB7	CCB	1	42994.1	54104.9	79.46	PASS	30-150
CCV8	CCV	1	43132.2	54104.9	79.72	PASS	30-150
CCB8	CCB	1	42400.3	54104.9	78.37	PASS	30-150
CCV9	CCV	1	42805.7	54104.9	79.12	PASS	30-150
CCB9	CCB	1	42239.9	54104.9	78.07	PASS	30-150
ICSA4	ICSA	1	42577.4	54104.9	78.69	PASS	30-150
ICSAB4	ICSAB	1	42727.8	54104.9	78.97	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	41451.3	54104.9	76.61	PASS	30-150
CCB10	CCB	1	40404.2	54104.9	74.68	PASS	30-150
CCV11	CCV	1	39536.6	54104.9	73.07	PASS	30-150
CCB11	CCB	1	38754.8	54104.9	71.63	PASS	30-150
CCV12	CCV	1	38446.4	54104.9	71.06	PASS	30-150
CCB12	CCB	1	37891.7	54104.9	70.03	PASS	30-150
ICSA5	ICSA	1	38029.9	54104.9	70.29	PASS	30-150
ICSAB5	ICSAB	1	37960.8	54104.9	70.16	PASS	30-150
MB-105986	MBLK	1	37486.4	54104.9	69.28	PASS	30-150
LCS-105986	LCS	1	38886.2	54104.9	71.87	PASS	30-150
N062311-001B	SAMP	1	37324.9	54104.9	68.99	PASS	30-150
CCV13	CCV	1	37883.9	54104.9	70.02	PASS	30-150
CCB13	CCB	1	37608.9	54104.9	69.51	PASS	30-150
N062312-001C	SAMP	1	34193.8	54104.9	63.2	PASS	30-150
N062312-002C	SAMP	1	34904.2	54104.9	64.51	PASS	30-150
N062312-003C	SAMP	1	37723.6	54104.9	69.72	PASS	30-150
N062312-004C	SAMP	1	36516.5	54104.9	67.49	PASS	30-150
N062312-005C	SAMP	1	37303.8	54104.9	68.95	PASS	30-150
N062312-006C	SAMP	1	36080	54104.9	66.69	PASS	30-150
N062312-006C	SAMP	5	37506.4	54104.9	69.32	PASS	30-150
N062312-006C-PS	PS	1	35841.7	54104.9	66.24	PASS	30-150
N062312-006CMS	MS	1	36201.4	54104.9	66.91	PASS	30-150
CCV14	CCV	1	37670.1	54104.9	69.62	PASS	30-150
CCB14	CCB	1	36198	54104.9	66.9	PASS	30-150
N062312-006CMSD	MSD	1	34737.2	54104.9	64.2	PASS	30-150
N062312-007C	SAMP	1	35499.9	54104.9	65.61	PASS	30-150
N062312-008C	SAMP	1	35284.9	54104.9	65.22	PASS	30-150
N062312-010C	SAMP	1	36272.6	54104.9	67.04	PASS	30-150
N062312-011C	SAMP	1	35798.3	54104.9	66.16	PASS	30-150
N062312-012C	SAMP	1	34419.8	54104.9	63.62	PASS	30-150
N062312-013C	SAMP	1	35684.7	54104.9	65.95	PASS	30-150
N062312-014C	SAMP	1	35131.3	54104.9	64.93	PASS	30-150
N062312-015C	SAMP	1	34541.2	54104.9	63.84	PASS	30-150
CCV15	CCV	1	35454.2	54104.9	65.53	PASS	30-150
CCB15	CCB	1	34482.2	54104.9	63.73	PASS	30-150
N062312-016C	SAMP	1	33856.5	54104.9	62.58	PASS	30-150
N062312-017C	SAMP	1	33797.4	54104.9	62.47	PASS	30-150
N062312-018C	SAMP	1	34603.5	54104.9	63.96	PASS	30-150
CCV16	CCV	1	34183.8	54104.9	63.18	PASS	30-150
CCB16	CCB	1	32904.5	54104.9	60.82	PASS	30-150
ICSA6	ICSA	1	32919	54104.9	60.84	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSAB6	ICSAB	1	33139.4	54104.9	61.25	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062311
Test Method: EPA 6020
Analysis Date: 1/11/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105986

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062312-006C DT 5x	Chromium	Cr	µg/L	13.92806	NA	8.110022	71.74%	10

Reviewed by:

 1/25/2024

Note: NA - Not Applicable

01/17/24 22:36

DT_EPA 6020_N062311_105986

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062311
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062312-006C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180334						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	17.265	1.0	10.00	8.110	91.6	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062312

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



ASSET LABORATORIES
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January 29, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062312

RE: PG&E Topock - PCM, 30121866

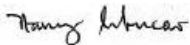
Attention: Dan Bush

Enclosed are the results for sample(s) received on January 10, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062312

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for sample N062312-002 due to matrix interference. Sample was analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Sample was reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

RPD for Sample Duplicate (DUP) N062309-007BDUP is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for EPA 6020_Dissolved:

N062312-012C and -018C were reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. RSD of all runs failed acceptance criteria. Arsenic was reported at 0.2058ug/L and 0.303ug/L with lowest RSD value of 16.9% and 25.3%, respectively. The results are comparable on all runs. Please see Corrective Action Report #s 7357 and 7358.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Manganese in QC samples N062312-006CMS and N062312-006CMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



ASSET Laboratories

Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062312
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062312-001A	MW-44-115-0124	Groundwater	1/10/2024 10:10:00 AM	1/10/2024	1/29/2024
N062312-001B	MW-44-115-0124	Groundwater	1/10/2024 10:10:00 AM	1/10/2024	1/29/2024
N062312-001C	MW-44-115-0124	Groundwater	1/10/2024 10:10:00 AM	1/10/2024	1/29/2024
N062312-002A	MW-44-125-0124	Groundwater	1/10/2024 10:32:00 AM	1/10/2024	1/29/2024
N062312-002B	MW-44-125-0124	Groundwater	1/10/2024 10:32:00 AM	1/10/2024	1/29/2024
N062312-002C	MW-44-125-0124	Groundwater	1/10/2024 10:32:00 AM	1/10/2024	1/29/2024
N062312-003A	MW-45-095a-0124	Groundwater	1/10/2024 9:34:00 AM	1/10/2024	1/29/2024
N062312-003B	MW-45-095a-0124	Groundwater	1/10/2024 9:34:00 AM	1/10/2024	1/29/2024
N062312-003C	MW-45-095a-0124	Groundwater	1/10/2024 9:34:00 AM	1/10/2024	1/29/2024
N062312-004A	MW-34-080-0124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024
N062312-004B	MW-34-080-0124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024
N062312-004C	MW-34-080-0124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024
N062312-005A	MW-36-090-0124	Groundwater	1/10/2024 11:40:00 AM	1/10/2024	1/29/2024
N062312-005B	MW-36-090-0124	Groundwater	1/10/2024 11:40:00 AM	1/10/2024	1/29/2024
N062312-005C	MW-36-090-0124	Groundwater	1/10/2024 11:40:00 AM	1/10/2024	1/29/2024
N062312-006A	MW-36-100-0124	Groundwater	1/10/2024 12:03:00 PM	1/10/2024	1/29/2024
N062312-006B	MW-36-100-0124	Groundwater	1/10/2024 12:03:00 PM	1/10/2024	1/29/2024
N062312-006C	MW-36-100-0124	Groundwater	1/10/2024 12:03:00 PM	1/10/2024	1/29/2024
N062312-007A	MW-81-043-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-007B	MW-81-043-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-007C	MW-81-043-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-008A	MW-81-098-0124	Groundwater	1/10/2024 1:16:00 PM	1/10/2024	1/29/2024
N062312-008B	MW-81-098-0124	Groundwater	1/10/2024 1:16:00 PM	1/10/2024	1/29/2024
N062312-008C	MW-81-098-0124	Groundwater	1/10/2024 1:16:00 PM	1/10/2024	1/29/2024
N062312-009A	EB-705-Q124	Groundwater	1/10/2024 2:20:00 PM	1/10/2024	1/29/2024
N062312-010A	MW-78-070-0124	Groundwater	1/10/2024 8:54:00 AM	1/10/2024	1/29/2024
N062312-010B	MW-78-070-0124	Groundwater	1/10/2024 8:54:00 AM	1/10/2024	1/29/2024
N062312-010C	MW-78-070-0124	Groundwater	1/10/2024 8:54:00 AM	1/10/2024	1/29/2024
N062312-011A	MW-903-Q124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062312
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062312-011B	MW-903-Q124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024
N062312-011C	MW-903-Q124	Groundwater	1/10/2024 9:04:00 AM	1/10/2024	1/29/2024
N062312-012A	MW-78-142-0124	Groundwater	1/10/2024 9:32:00 AM	1/10/2024	1/29/2024
N062312-012B	MW-78-142-0124	Groundwater	1/10/2024 9:32:00 AM	1/10/2024	1/29/2024
N062312-012C	MW-78-142-0124	Groundwater	1/10/2024 9:32:00 AM	1/10/2024	1/29/2024
N062312-013A	MW-79-058-0124	Groundwater	1/10/2024 11:24:00 AM	1/10/2024	1/29/2024
N062312-013B	MW-79-058-0124	Groundwater	1/10/2024 11:24:00 AM	1/10/2024	1/29/2024
N062312-013C	MW-79-058-0124	Groundwater	1/10/2024 11:24:00 AM	1/10/2024	1/29/2024
N062312-014A	MW-79-102-0124	Groundwater	1/10/2024 10:47:00 AM	1/10/2024	1/29/2024
N062312-014B	MW-79-102-0124	Groundwater	1/10/2024 10:47:00 AM	1/10/2024	1/29/2024
N062312-014C	MW-79-102-0124	Groundwater	1/10/2024 10:47:00 AM	1/10/2024	1/29/2024
N062312-015A	MW-80-057-0124	Groundwater	1/10/2024 2:10:00 PM	1/10/2024	1/29/2024
N062312-015B	MW-80-057-0124	Groundwater	1/10/2024 2:10:00 PM	1/10/2024	1/29/2024
N062312-015C	MW-80-057-0124	Groundwater	1/10/2024 2:10:00 PM	1/10/2024	1/29/2024
N062312-016A	MW-80-082-0124	Groundwater	1/10/2024 1:40:00 PM	1/10/2024	1/29/2024
N062312-016B	MW-80-082-0124	Groundwater	1/10/2024 1:40:00 PM	1/10/2024	1/29/2024
N062312-016C	MW-80-082-0124	Groundwater	1/10/2024 1:40:00 PM	1/10/2024	1/29/2024
N062312-017A	MW-51-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-017B	MW-51-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-017C	MW-51-0124	Groundwater	1/10/2024 12:48:00 PM	1/10/2024	1/29/2024
N062312-018A	MW-26-0124	Groundwater	1/10/2024 12:07:00 PM	1/10/2024	1/29/2024
N062312-018B	MW-26-0124	Groundwater	1/10/2024 12:07:00 PM	1/10/2024	1/29/2024
N062312-018C	MW-26-0124	Groundwater	1/10/2024 12:07:00 PM	1/10/2024	1/29/2024
N062312-019A	EB-706-Q124	Groundwater	1/10/2024 2:25:00 PM	1/10/2024	1/29/2024



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-001

Client Sample ID: MW-44-115-0124
Collection Date: 1/10/2024 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434				PrepDate:		Analyst: RAB
Hexavalent Chromium	27	0.19	1.0		µg/L	5	1/15/2024 03:22 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-002

Client Sample ID: MW-44-125-0124
Collection Date: 1/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	1/15/2024 10:01 PM

- Qualifiers:** B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-003

Client Sample ID: MW-45-095a-0124
Collection Date: 1/10/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/15/2024 04:40 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-004

Client Sample ID: MW-34-080-0124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:			Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	1/15/2024 05:18 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-005

Client Sample ID: MW-36-090-0124
Collection Date: 1/10/2024 11:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/15/2024 05:37 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-006

Client Sample ID: MW-36-100-0124
Collection Date: 1/10/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	5.9	0.039	0.20	µg/L	1	1/15/2024 12:59 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-007

Client Sample ID: MW-81-043-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434						Analyst: RAB
Hexavalent Chromium	23	0.19	1.0		µg/L	5	1/15/2024 03:43 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-008

Client Sample ID: MW-81-098-0124
Collection Date: 1/10/2024 1:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	2.1	0.039	0.20	µg/L	1	1/15/2024 05:55 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-009

Client Sample ID: EB-705-Q124
Collection Date: 1/10/2024 2:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/15/2024 06:14 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-010

Client Sample ID: MW-78-070-0124
Collection Date: 1/10/2024 8:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	0.82	0.039	0.20	µg/L	1	1/15/2024 06:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-011

Client Sample ID: MW-903-Q124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	0.77	0.039	0.20	µg/L	1	1/15/2024 07:11 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-012

Client Sample ID: MW-78-142-0124
Collection Date: 1/10/2024 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	570	3.9	20	µg/L	100	1/15/2024 07:30 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-013

Client Sample ID: MW-79-058-0124
Collection Date: 1/10/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434				PrepDate:		Analyst: RAB
Hexavalent Chromium	25	0.19	1.0		µg/L	5	1/15/2024 04:02 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-014

Client Sample ID: MW-79-102-0124
Collection Date: 1/10/2024 10:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434				PrepDate:		Analyst: RAB
Hexavalent Chromium	200	1.9	10		µg/L	50	1/15/2024 04:21 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-015

Client Sample ID: MW-80-057-0124
Collection Date: 1/10/2024 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	6.0	0.039	0.20	µg/L	1	1/15/2024 09:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-017

Client Sample ID: MW-51-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	1.3	0.039	0.20	µg/L	1	1/15/2024 08:08 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-018

Client Sample ID: MW-26-0124
Collection Date: 1/10/2024 12:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB	
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	1/15/2024 08:27 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-019

Client Sample ID: EB-706-Q124
Collection Date: 1/10/2024 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240115A	QC Batch: R180434			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/15/2024 09:05 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R180434	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: PBW	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628034
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID LCS-R180434	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: LCSW	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628035
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.883	0.20	5.000	0	97.7 90 110

Sample ID N062312-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628037
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.936	0.20	5.000	5.886	101 90 110

Sample ID N062312-006AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628038
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.814	0.20	5.000	5.886	98.6 90 110 10.94 1.12 20

Sample ID N062312-006ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628039
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.886	0.20			5.886 0.0136 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062312-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	51.674	1.0	25.00	27.44	96.9	90	110
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Sample ID N062312-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	47.418	1.0	25.00	23.14	97.1	90	110
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Sample ID N062312-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	49.928	1.0	25.00	24.93	100	90	110
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Sample ID N062312-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	442.605	10	250.0	201.6	96.4	90	110
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Sample ID N062312-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.164	0.20	1.000	0.1473	102	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
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Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062312-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628055							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.061	0.20	1.000	0	106	90	110				

Sample ID N062312-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628057							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.042	0.20	1.000	0	104	90	110				

Sample ID N062312-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.108	0.20	1.000	2.087	102	90	110				

Sample ID N062312-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628061							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.046	0.20	1.000	0	105	90	110				

Sample ID N062312-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628063							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.831	0.20	1.000	0.8214	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062312-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.811	0.20	1.000	0.7659	104	90	110				

Sample ID N062312-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1061.000	20	500.0	570.7	98.1	90	110				

Sample ID N062312-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.008	0.20	1.000	1.972	104	90	110				

Sample ID N062312-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628073						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.317	0.20	1.000	1.347	97.0	90	110				

Sample ID N062312-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.030	0.20	1.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N062312-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628079							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.078	0.20	1.000	0	108	90	110				

Sample ID N062312-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	11.104	0.20	5.000	5.956	103	90	110				

Sample ID N062312-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628083							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.415	1.0	5.000	0.7055	94.2	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-001

Client Sample ID: MW-44-115-0124
Collection Date: 1/10/2024 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	980	34	50		mg/L	100	1/11/2024 08:54 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	0.88	0.24	0.50		mg/L	10	1/11/2024 12:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-002

Client Sample ID: MW-44-125-0124
Collection Date: 1/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	960	34	50		mg/L	100	1/11/2024 09:40 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 12:45 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-003

Client Sample ID: MW-45-095a-0124
Collection Date: 1/10/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	540	17	25		mg/L	50	1/11/2024 09:56 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 01:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-004

Client Sample ID: MW-34-080-0124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Sulfate	790	34	50		mg/L	100	1/11/2024 10:11 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 01:15 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-005

Client Sample ID: MW-36-090-0124
Collection Date: 1/10/2024 11:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	600	17	25		mg/L	50	1/11/2024 10:26 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 02:01 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-006

Client Sample ID: MW-36-100-0124
Collection Date: 1/10/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Sulfate	680	34	50		mg/L	100	1/11/2024 08:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 12:14 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-007

Client Sample ID: MW-81-043-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Sulfate	370	17	25		mg/L	50	1/11/2024 11:12 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 02:16 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-008

Client Sample ID: MW-81-098-0124
Collection Date: 1/10/2024 1:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	630	17	25		mg/L	50	1/11/2024 11:27 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	1.1	0.24	0.50		mg/L	10	1/11/2024 02:32 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-010

Client Sample ID: MW-78-070-0124
Collection Date: 1/10/2024 8:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	1/11/2024 11:43 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 02:47 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-011

Client Sample ID: MW-903-Q124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Sulfate	310	17	25		mg/L	50	1/11/2024 11:58 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 03:02 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-012

Client Sample ID: MW-78-142-0124
Collection Date: 1/10/2024 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	460	17	25		mg/L	50	1/12/2024 12:13 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	0.83	0.24	0.50		mg/L	10	1/11/2024 03:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-013

Client Sample ID: MW-79-058-0124
Collection Date: 1/10/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	1/12/2024 12:29 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 03:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-014

Client Sample ID: MW-79-102-0124
Collection Date: 1/10/2024 10:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	1/12/2024 12:44 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 03:48 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-015

Client Sample ID: MW-80-057-0124
Collection Date: 1/10/2024 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	330	17	25		mg/L	50	1/12/2024 12:59 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 04:04 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-016

Client Sample ID: MW-80-082-0124
Collection Date: 1/10/2024 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	330	17	25		mg/L	50	1/12/2024 01:14 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 04:19 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-017

Client Sample ID: MW-51-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	1/12/2024 01:30 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 05:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-018

Client Sample ID: MW-26-0124
Collection Date: 1/10/2024 12:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Sulfate	400	17	25		mg/L	50	1/12/2024 02:16 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240111A	QC Batch: R180295				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/11/2024 05:20 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R180295_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180295			
Client ID:	PBW	Batch ID:	R180295	TestNo:	EPA 300.0			Analysis Date:	1/11/2024	SeqNo:	5618319			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND		0.50										

Sample ID	LCS-R180295_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180295			
Client ID:	LCSW	Batch ID:	R180295	TestNo:	EPA 300.0			Analysis Date:	1/11/2024	SeqNo:	5618320			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		4.036		0.50	4.000	0		101	90	110				

Sample ID	N062312-006BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180295			
Client ID:	ZZZZZ	Batch ID:	R180295	TestNo:	EPA 300.0			Analysis Date:	1/11/2024	SeqNo:	5618328			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		1080.800		50	400.0	680.8		100	80	120				

Sample ID	N062312-006BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180295			
Client ID:	ZZZZZ	Batch ID:	R180295	TestNo:	EPA 300.0			Analysis Date:	1/11/2024	SeqNo:	5618329			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		1082.030		50	400.0	680.8		100	80	120	1081	0.114	20	

Sample ID	N062312-001BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	180295			
Client ID:	ZZZZZ	Batch ID:	R180295	TestNo:	EPA 300.0			Analysis Date:	1/11/2024	SeqNo:	5618331			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		976.320		50							983.4	0.718	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N062312-001BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ZZZZZZ	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618332							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1390.810	50	400.0	983.4	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N062309-007BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ZZZZZZ	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618303							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	73.805	2.5	62.50	22.72	81.7	80	120				

Sample ID N062309-007BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ZZZZZZ	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618304							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	75.960	2.5	62.50	22.72	85.2	80	120	73.81	2.88	20	

Sample ID N062309-008BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ZZZZZZ	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618305							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	8.501	0.25	6.250	2.144	102	80	120				

Sample ID N062309-008BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ZZZZZZ	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618306							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	8.652	0.25	6.250	2.144	104	80	120	8.501	1.77	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-44-115-0124
Lab Order:	N062312		
Project:	PG&E Topock - PCM, 30121866	Collection Date:	1/10/2024 10:10:00 AM
Lab ID:	N062312-001	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 09:11 PM	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-002

Client Sample ID: MW-44-125-0124
Collection Date: 1/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 09:17 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-003

Client Sample ID: MW-45-095a-0124
Collection Date: 1/10/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	29	13	20	µg/L	1	1/14/2024 09:22 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-004

Client Sample ID: MW-34-080-0124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate:	1/11/2024	Analyst: DJ	
Iron	230	13	20		µg/L	1	1/14/2024 09:50 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-005

Client Sample ID: MW-36-090-0124
Collection Date: 1/10/2024 11:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	67	13	20	µg/L	1	1/14/2024 09:56 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-006

Client Sample ID: MW-36-100-0124
Collection Date: 1/10/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	210	13	20	µg/L	1	1/14/2024 10:02 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-008

Client Sample ID: MW-81-098-0124
Collection Date: 1/10/2024 1:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	29	13	20	µg/L	1	1/14/2024 10:35 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-010

Client Sample ID: MW-78-070-0124
Collection Date: 1/10/2024 8:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 10:48 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-011

Client Sample ID: MW-903-Q124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 10:54 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-012

Client Sample ID: MW-78-142-0124
Collection Date: 1/10/2024 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate:	1/11/2024	Analyst: DJ	
Iron	42	13	20		µg/L	1	1/14/2024 11:00 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-013

Client Sample ID: MW-79-058-0124
Collection Date: 1/10/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 11:05 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-014

Client Sample ID: MW-79-102-0124
Collection Date: 1/10/2024 10:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	44	13	20	µg/L	1	1/14/2024 11:11 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-015

Client Sample ID: MW-80-057-0124
Collection Date: 1/10/2024 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	46	13	20	µg/L	1	1/14/2024 11:17 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-016

Client Sample ID: MW-80-082-0124
Collection Date: 1/10/2024 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/14/2024 11:22 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-017

Client Sample ID: MW-51-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	75	13	20	µg/L	1	1/14/2024 11:28 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-018

Client Sample ID: MW-26-0124
Collection Date: 1/10/2024 12:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240114B	QC Batch: 105991			PrepDate: 1/11/2024		Analyst: DJ	
Iron	300	13	20	µg/L	1	1/14/2024 11:34 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-105991	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180396
Client ID: PBW	Batch ID: 105991	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5625065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID LCS-105991	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180396
Client ID: LCSW	Batch ID: 105991	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5625066
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	93.257	20	100.0	0	93.3 85 115

Sample ID N062312-006CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180396
Client ID: ZZZZZZ	Batch ID: 105991	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5625079
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	301.656	20	100.0	213.5	88.1 75 125

Sample ID N062312-006CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180396
Client ID: ZZZZZZ	Batch ID: 105991	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5625080
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	301.411	20	100.0	213.5	87.9 75 125 301.7 0.0813 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-001

Client Sample ID: MW-44-115-0124
Collection Date: 1/10/2024 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:17 AM	
Barium	30	0.083	1.0	µg/L	1	1/12/2024 03:17 AM	
Manganese	7.9	0.026	0.50	µg/L	1	1/12/2024 03:17 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-002

Client Sample ID: MW-44-125-0124
Collection Date: 1/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:22 AM	
Barium	44	0.083	1.0	µg/L	1	1/12/2024 03:22 AM	
Manganese	450	0.26	5.0	µg/L	10	1/12/2024 10:38 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-003

Client Sample ID: MW-45-095a-0124
Collection Date: 1/10/2024 9:34:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:27 AM	
Barium	26	0.083	1.0	µg/L	1	1/12/2024 03:27 AM	
Manganese	47	0.026	0.50	µg/L	1	1/12/2024 03:27 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-004

Client Sample ID: MW-34-080-0124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:31 AM	
Barium	38	0.083	1.0	µg/L	1	1/12/2024 03:31 AM	
Manganese	160	0.026	0.50	µg/L	1	1/12/2024 03:31 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-005

Client Sample ID: MW-36-090-0124
Collection Date: 1/10/2024 11:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:36 AM	
Barium	66	0.083	1.0	µg/L	1	1/12/2024 03:36 AM	
Manganese	230	0.26	5.0	µg/L	10	1/12/2024 10:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-006

Client Sample ID: MW-36-100-0124
Collection Date: 1/10/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 03:41 AM	
Barium	50	0.083	1.0	µg/L	1	1/12/2024 03:41 AM	
Manganese	460	0.26	5.0	µg/L	10	1/12/2024 10:48 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-007

Client Sample ID: MW-81-043-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240117B	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/17/2024 01:55 PM	
Barium	140	0.083	1.0	µg/L	1	1/12/2024 04:18 AM	
Manganese	68	0.026	0.50	µg/L	1	1/12/2024 04:18 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-008

Client Sample ID: MW-81-098-0124
Collection Date: 1/10/2024 1:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:22 AM	
Barium	75	0.083	1.0	µg/L	1	1/12/2024 04:22 AM	
Manganese	71	0.026	0.50	µg/L	1	1/12/2024 04:22 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-010

Client Sample ID: MW-78-070-0124
Collection Date: 1/10/2024 8:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:27 AM	
Barium	120	0.083	1.0	µg/L	1	1/12/2024 04:27 AM	
Manganese	660	0.26	5.0	µg/L	10	1/12/2024 11:11 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-011

Client Sample ID: MW-903-Q124
Collection Date: 1/10/2024 9:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:32 AM	
Barium	120	0.083	1.0	µg/L	1	1/12/2024 04:32 AM	
Manganese	600	0.26	5.0	µg/L	10	1/12/2024 11:25 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-012

Client Sample ID: MW-78-142-0124
Collection Date: 1/10/2024 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240117B	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	0.21	0.050	0.10	µg/L	1	1/17/2024 01:34 PM	
Barium	26	0.083	1.0	µg/L	1	1/12/2024 04:37 AM	
Manganese	5.4	0.026	0.50	µg/L	1	1/12/2024 04:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-013

Client Sample ID: MW-79-058-0124
Collection Date: 1/10/2024 11:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:41 AM	
Barium	130	0.083	1.0	µg/L	1	1/12/2024 04:41 AM	
Manganese	18	0.026	0.50	µg/L	1	1/12/2024 04:41 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-014

Client Sample ID: MW-79-102-0124
Collection Date: 1/10/2024 10:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:46 AM	
Barium	43	0.083	1.0	µg/L	1	1/12/2024 04:46 AM	
Manganese	31	0.026	0.50	µg/L	1	1/12/2024 04:46 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-015

Client Sample ID: MW-80-057-0124
Collection Date: 1/10/2024 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/12/2024 04:50 AM	
Barium	75	0.083	1.0	µg/L	1	1/12/2024 04:50 AM	
Manganese	70	0.026	0.50	µg/L	1	1/12/2024 04:50 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-016

Client Sample ID: MW-80-082-0124
Collection Date: 1/10/2024 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/14/2024 08:33 PM	
Barium	51	0.083	1.0	µg/L	1	1/12/2024 05:09 AM	
Manganese	690	0.26	5.0	µg/L	10	1/12/2024 11:39 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-017

Client Sample ID: MW-51-0124
Collection Date: 1/10/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240111C	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	DJ
Arsenic	0.99	0.050	0.10	µg/L	1	1/12/2024 05:14 AM	
Barium	50	0.083	1.0	µg/L	1	1/12/2024 05:14 AM	
Manganese	780	0.26	5.0	µg/L	10	1/12/2024 11:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 29-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062312
Project: PG&E Topock - PCM, 30121866
Lab ID: N062312-018

Client Sample ID: MW-26-0124
Collection Date: 1/10/2024 12:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240126D	QC Batch:	105986	PrepDate:	1/11/2024	Analyst:	admin
Arsenic	0.30	0.050	0.10	µg/L	1	1/26/2024 11:39 PM	
Barium	92	0.083	1.0	µg/L	1	1/12/2024 05:18 AM	
Manganese	2000	2.6	50	µg/L	100	1/12/2024 11:53 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-105986	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180301						
Client ID: PBW	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID LCS-105986	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180301						
Client ID: LCSW	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.766	0.10	10.00	0	97.7	85	115				
Barium	9.820	1.0	10.00	0	98.2	85	115				
Manganese	100.712	0.50	100.0	0	101	85	115				

Sample ID N062312-006CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.207	0.10	10.00	0	92.1	75	125				
Barium	60.999	1.0	10.00	50.23	108	75	125				

Sample ID N062312-006CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180301						
Client ID: ZZZZZ	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.230	0.10	10.00	0	92.3	75	125	9.207	0.254	20	
Barium	59.640	1.0	10.00	50.23	94.1	75	125	61.00	2.25	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N062312-006CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180400						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5626139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	430.664	5.0	100.0	456.3	-25.6	75	125				S

Sample ID N062312-006CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/11/2024	RunNo: 180400						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5626140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	436.429	5.0	100.0	456.3	-19.8	75	125	430.7	1.33	20	S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N062312-006C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5619492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.978	0.10	10.00	0	89.8	80	120				
Barium	60.004	1.0	10.00	50.23	97.8	80	120				

Sample ID N062312-006C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/12/2024	SeqNo: 5626138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1327.054	5.0	1000	456.3	87.1	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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SAMPLE RECEIVING ITEMS



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P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EOD Requirement		QA/QC		Sample Receipt Condition	
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		1. Chilled <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Address: Roseville, CA 95678		Email: dian_bush@arcadis.com daniel.moore@critigen.com		Address:		Geotracker		RWQCB		2. Headspace <input type="checkbox"/>	
Phone: 916-786-3302		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		LabSpec		CalTrans		3. Container Intact <input checked="" type="checkbox"/>	
Fax:		Address:		P.O.#		Others		LEVEL III		4. Seal Present <input checked="" type="checkbox"/>	
Submitted By: <i>Riggie Tep</i>		Phone: 916-786-3302		Phone: 949-727-1400, ext 200		Specify:		LEVEL IV		5. IR number 3	
Title: <i>Field Tech</i>		Fax:		Fax:		RWQCB		Regulatory		6. Method of Cooling: ICE	
Signature: <i>[Signature]</i> Date: 01/10/24		Sampled By: <i>Riggie Tep</i>		Matrix		Global ID:		Specify State:		Sample Temp: 1.2°C	
I hereby authorize ASSET Labs to perform the tests indicated below.		Warning: Tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Ground		250 mL poly		1 L poly		500mL poly	
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i> Date: 01/10/24		X Sediment		1 L poly		500mL poly		500mL poly	
Project Number: 30121866		Surface		Potable		500mL poly		3x40 mL VOA		1 L poly	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others	
						Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	
								Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,		Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum	
								Total Organic Carbon (SM5310C); H2SO4		Ammonia as Nitrogen (SM4500NH3D); H2SO4	
								Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)	
								Turn Around Time		No. of Container	
								Container Type		PRESERVATION	
										Remarks	
1		N062312-001		MW-44-115-0124		1/10/2024		10:10		X X X	
2		-002		MW-44-125-0124		1/10/2024		10:32		X X X	
3		-003		MW-45-095a-0124		1/10/2024		9:34		X X X	
4		-004		MW-34-080-0124		1/10/2024		9:04		X X X	
5		-005		MW-36-090-0124		1/10/2024		11:40		X X X	
6		-006		MW-36-100-0124		1/10/2024		12:03		X X X	
7		-007		MW-81-043-0124		1/10/2024		12:48		X X X	
8		-008		MW-81-098-0124		1/10/2024		13:16		X X X	
9		-009		EB-705-Q124		1/10/2024		14:20		X	
10											
11											
12											
13											
14											
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 01/10/24 1515		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 1/10/24 1515		Turn Around Time (TAT)		Special Instruction:					
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 1/10/24 1724		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 1/10/24 1728		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays							
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		TAT Starts at 8 AM the following day if samples received after 3:00PM.							
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		Preservatives:		Container Type:					
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis		7. Terms are net 30 days.		H=HCL N=HNO3 S=H2SO4 C=4°C		T=Tube V=VOA P=Pin					
Less than 24 Hrs=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=25%		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		Z=Zn(Ac)2 O=NaOH T=Na2S2O3		J=Jar B=Tedlar G=Glass					
3. Custom EDD formats will be an additional 3% of the total project price.		9. For subcontract analysis, TAT and Surcharges will vary.		Others/Specify: B (NH4)2SO4/NH4OH		M=Metal M=Metal C=Can					
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project											

White=Laboratory Copy

Yellow=Customer's Copy



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Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Page 1 of 1

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition									
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		1. Chilled									
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com		Address:		GeoTracker		RWQCB		2. Headspace									
Phone: 916-786-3302		Email: daniel.moore@rcitgen.com		Address:		Labspec		CalTrans		3. Container Intact									
Fax:		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		Others		LEVEL III		4. Seal Present									
Submitted By: <i>Riggie Top</i>		Phone: 916-786-3302		P.O.#		Specify:		LEVEL IV		5. IR number									
Title: <i>Field Tech</i>		Fax:		Phone: 949-727-1400, ext 200		RWQCB		Regulatory		6. Method of Cooling:									
Signature: <i>[Signature]</i>		Date: 01/10/24		Sampled By: <i>Riggie Top</i>		Global ID:		Specify State:		3									
I hereby authorize ASSET Labs to perform the tests indicated below.		Signature: <i>[Signature]</i>		Date: 01/10/24		Matrix		Ground		Sample Temp: 4.5°C, 1.2°C									
								Potable		Courier: <i>ASSET</i>									
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i>		Date: 01/10/24		NPDES		Other Solid		Tracking No.:									
Project Number: 30121866		Surface																	
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF; HNO3 Selenium, Molybdenum	Total Organic Carbon (SM6310C); H2SO4	Ammonia as Nitrogen (SM4500NH3D); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Nitrate (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N062312-010	MW-78-070-0124	1/10/2024	8:54		X	X	X							E 3	P	BNS		
2	-011	MW-903-Q124	1/10/2024	9:04		X	X	X							E 3	P	BNS		
3	-012	MW-78-142-0124	1/10/2024	9:32		X	X	X							E 3	P	BNS		
4	-013	MW-79-058-0124	1/10/2024	11:24		X	X	X							E 3	P	BNS		
5	-014	MW-79-102-0124	1/10/2024	10:47		X	X	X							E 3	P	BNS		
6	-015	MW-80-057-0124	1/10/2024	14:10		X	X	X							E 3	P	BNS		
7	-016	MW-80-082-0124	1/10/2024	13:40		X	X	X							E 3	P	BNS		
8	-017	MW-51-0124	1/10/2024	12:48		X	X	X							E 3	P	BNS		
9	-018	MW-26-0124	1/10/2024	12:07		X	X	X							E 3	P	BNS		
10	-019	EB-706-Q124	1/10/2024	14:25		X									E 1	P	BNS		
11																			
12																			
13																			
14																			
Requisitioned by (Signature and Printed Name): <i>[Signature]</i>		Date/Time: 01/10/24 1515		Requisitioned by (Signature and Printed Name): <i>[Signature]</i>		Date/Time: 1/10/24 1515		Turn Around Time (TAT)		Special Instruction:									
Requisitioned by (Signature and Printed Name): <i>[Signature]</i>		Date/Time: 1/10/24 1728		Requisitioned by (Signature and Printed Name): <i>[Signature]</i>		Date/Time: 1/10/24 1728		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays											
Requisitioned by (Signature and Printed Name):		Date/Time:		Requisitioned by (Signature and Printed Name):		Date/Time:		TAT Starts at 8 AM the following day if samples received after 3:00PM.											
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are not 30 days.		Preservatives:		Container Type:									
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis		3. Custom EDD formats will be an additional 3% of the total project price.		4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project		H=HCL N=HNO3 S=H2SO4 C=4°C		T=Tube V=VOA P=Pinl									
								Z=Zn(AC)2 O=NaOH T=Na2S2O3		J=Jar B=Tedlar G=Glass									
								Others/Specify: B (NH4)2SO4/NH4OH		M=Metal M=Metal C=Can									

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/10/2024 Workorder: N062312
 Rep sample Temp (Deg C): 1.2/4.5/1.2 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input checked="" type="checkbox"/>
Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input type="checkbox"/>
NA <input type="checkbox"/> |

Comments: See correspondence.

fFor:

Checklist Completed By: AIP Efanegof 1/11/2024

Reviewed By: MBC *for: J. M. P. [Signature]* 1/22/2024

Subject: RE: PG&E Topock - PCM, 30121866 (ASSET Labs No. N062312 and N062313)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 1/11/2024, 3:08 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "jimuel.penafiel@assetlaboratoriesph.com" <jimuel.penafiel@assetlaboratoriesph.com>, "eilen@assetlaboratories.com" <eilen@assetlaboratories.com>

Hi Yoandra,

The sample ID should end with "Q124". We had some errors on the labels this round.

Thanks!

Laura Madsen PG

Project Geologist

Arcadis U.S., Inc.
M +1 303 653 5749

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Thursday, January 11, 2024 5:12 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: maryann.balilu@assetlaboratoriesph.com; jimuel.penafiel@assetlaboratoriesph.com; eilen@assetlaboratories.com
Subject: PG&E Topock - PCM, 30121866 (ASSET Labs No. N062312 and N062313)

Hi Laura,

Please advise on the following discrepancies for the attached COCs:

- N062312-011: ID is MW-903-Q124 on COC and MW-903 on labels
- N062313-010: ID is MW-903-Q124 on COC and MW-903 on labels

--

Thanks,

Yoandra Rodriguez
Project Manager

Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-001A	MW-44-115-0124	1/10/2024 10:10:00 AM	1/25/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-001B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-001C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-002A	MW-44-125-0124	1/10/2024 10:32:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-002B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-002C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-003A	MW-45-095a-0124	1/10/2024 9:34:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-003B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-003C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-004A	MW-34-080-0124	1/10/2024 9:04:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-004B	MW-34-080-0124	1/10/2024 9:04:00 AM	1/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-004C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-005A	MW-36-090-0124	1/10/2024 11:40:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-005B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-005C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-006A	MW-36-100-0124	1/10/2024 12:03:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062312-006B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062312-006C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062312-007A	MW-81-043-0124	1/10/2024 12:48:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-007B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-007B	MW-81-043-0124	1/10/2024 12:48:00 PM	1/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-007C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-008A	MW-81-098-0124	1/10/2024 1:16:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-008B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-008C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-009A	EB-705-Q124	1/10/2024 2:20:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-010A	MW-78-070-0124	1/10/2024 8:54:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-010B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-010C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-011A	MW-903-Q124	1/10/2024 9:04:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-011B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-011B	MW-903-Q124	1/10/2024 9:04:00 AM	1/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-011C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-012A	MW-78-142-0124	1/10/2024 9:32:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-012B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-012C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-013A	MW-79-058-0124	1/10/2024 11:24:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-013B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-013C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-014A	MW-79-102-0124	1/10/2024 10:47:00 AM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-014B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-014C	MW-79-102-0124	1/10/2024 10:47:00 AM	1/25/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-015A	MW-80-057-0124	1/10/2024 2:10:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-015B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-015C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-016A	MW-80-082-0124	1/10/2024 1:40:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-016B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-016C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-017A	MW-51-0124	1/10/2024 12:48:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-017B			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-017C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

22-Jan-24

WorkOrder: N062312

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/10/2024 5:28 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062312-017C	MW-51-0124	1/10/2024 12:48:00 PM	1/25/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-018A	MW-26-0124	1/10/2024 12:07:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
1/25/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
1/25/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062312-018C			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-019A	EB-706-Q124	1/10/2024 2:25:00 PM	1/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062312-020A	FOLDER	1/25/2024	1/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/25/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062312

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R180434
ASSET #: N062312

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 1/15/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for sample N062312-002 due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer RB 01252024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062312-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 5.4874 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 27.4370$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 27$$

Reviewed by:

d/Rocha 1/30/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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NEVADA
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P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240115A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/15/24 11:54 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/15/24 12:11 PM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/15/24 12:21 PM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/15/24 12:30 PM	Reported
13	MB-R180434	MBLK	1	Hexavalent Chromium	01/15/24 12:40 PM	Reported
14	LCS-R180434	LCS	1	Hexavalent Chromium	01/15/24 12:49 PM	Reported
15	N062312-006A	SAMP	1	Hexavalent Chromium	01/15/24 12:59 PM	Reported
16	N062312-006AMS	MS	1	Hexavalent Chromium	01/15/24 1:54 PM	Reported
17	N062312-006AMSD	MSD	1	Hexavalent Chromium	01/15/24 2:03 PM	Reported
18	N062312-006ADUP	DUP	1	Hexavalent Chromium	01/15/24 2:13 PM	Reported
19	N062312-006A	SAMP	5	Hexavalent Chromium	01/15/24 2:22 PM	Not Reported
20	N062312-006AMS	MS	5	Hexavalent Chromium	01/15/24 2:32 PM	Not Reported
21	N062312-006AMSD	MSD	5	Hexavalent Chromium	01/15/24 2:41 PM	Not Reported
22	N062312-006ADUP	DUP	5	Hexavalent Chromium	01/15/24 2:50 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/15/24 3:00 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/15/24 3:09 PM	Reported
25	N062312-001A	SAMP	5	Hexavalent Chromium	01/15/24 3:22 PM	Reported
26	N062312-001AMS	MS	5	Hexavalent Chromium	01/15/24 3:33 PM	Reported
27	N062312-007A	SAMP	5	Hexavalent Chromium	01/15/24 3:43 PM	Reported
28	N062312-007AMS	MS	5	Hexavalent Chromium	01/15/24 3:52 PM	Reported
29	N062312-013A	SAMP	5	Hexavalent Chromium	01/15/24 4:02 PM	Reported
30	N062312-013AMS	MS	5	Hexavalent Chromium	01/15/24 4:11 PM	Reported
31	N062312-014A	SAMP	50	Hexavalent Chromium	01/15/24 4:21 PM	Reported
32	N062312-014AMS	MS	50	Hexavalent Chromium	01/15/24 4:30 PM	Reported
33	N062312-003A	SAMP	1	Hexavalent Chromium	01/15/24 4:40 PM	Reported
34	N062312-003AMS	MS	1	Hexavalent Chromium	01/15/24 4:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/15/24 4:59 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/15/24 5:08 PM	Reported
37	N062312-004A	SAMP	1	Hexavalent Chromium	01/15/24 5:18 PM	Reported
38	N062312-004AMS	MS	1	Hexavalent Chromium	01/15/24 5:27 PM	Reported
39	N062312-005A	SAMP	1	Hexavalent Chromium	01/15/24 5:37 PM	Reported
40	N062312-005AMS	MS	1	Hexavalent Chromium	01/15/24 5:46 PM	Reported
41	N062312-008A	SAMP	1	Hexavalent Chromium	01/15/24 5:55 PM	Reported
42	N062312-008AMS	MS	1	Hexavalent Chromium	01/15/24 6:05 PM	Reported

INJECTION LOG: 240115A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062312-009A	SAMP	1	Hexavalent Chromium	01/15/24 6:14 PM	Reported
44	N062312-009AMS	MS	1	Hexavalent Chromium	01/15/24 6:24 PM	Reported
45	N062312-010A	SAMP	1	Hexavalent Chromium	01/15/24 6:33 PM	Reported
46	N062312-010AMS	MS	1	Hexavalent Chromium	01/15/24 6:43 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/15/24 6:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/15/24 7:02 PM	Reported
49	N062312-011A	SAMP	1	Hexavalent Chromium	01/15/24 7:11 PM	Reported
50	N062312-011AMS	MS	1	Hexavalent Chromium	01/15/24 7:21 PM	Reported
51	N062312-012A	SAMP	100	Hexavalent Chromium	01/15/24 7:30 PM	Reported
52	N062312-012AMS	MS	100	Hexavalent Chromium	01/15/24 7:39 PM	Reported
53	N062312-016A	SAMP	1	Hexavalent Chromium	01/15/24 7:49 PM	Reported
54	N062312-016AMS	MS	1	Hexavalent Chromium	01/15/24 7:58 PM	Reported
55	N062312-017A	SAMP	1	Hexavalent Chromium	01/15/24 8:08 PM	Reported
56	N062312-017AMS	MS	1	Hexavalent Chromium	01/15/24 8:17 PM	Reported
57	N062312-018A	SAMP	1	Hexavalent Chromium	01/15/24 8:27 PM	Reported
58	N062312-018AMS	MS	1	Hexavalent Chromium	01/15/24 8:36 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/15/24 8:46 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/15/24 8:55 PM	Reported
61	N062312-019A	SAMP	1	Hexavalent Chromium	01/15/24 9:05 PM	Reported
62	N062312-019AMS	MS	1	Hexavalent Chromium	01/15/24 9:14 PM	Reported
63	N062312-002A	SAMP	1	Hexavalent Chromium	01/15/24 9:23 PM	Not Reported
64	N062312-002AMS	MS	1	Hexavalent Chromium	01/15/24 9:33 PM	Not Reported
65	N062312-015A	SAMP	1	Hexavalent Chromium	01/15/24 9:42 PM	Reported
66	N062312-015AMS	MS	1	Hexavalent Chromium	01/15/24 9:52 PM	Reported
67	N062312-002A	SAMP	5	Hexavalent Chromium	01/15/24 10:01 PM	Reported
68	N062312-002AMS	MS	5	Hexavalent Chromium	01/15/24 10:11 PM	Reported
69	N062312-015A	SAMP	5	Hexavalent Chromium	01/15/24 10:20 PM	Not Reported
70	N062312-015AMS	MS	5	Hexavalent Chromium	01/15/24 10:30 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/15/24 10:39 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/15/24 10:49 PM	Reported
73	BLANK	BLANK	1	Hexavalent Chromium	01/15/24 10:58 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240115A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromleonLocal4	Updated On:	15/Jan/24 23:28:47
No. of Injections:	76	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/15/2024 11:54	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/15/2024 12:11	Finished	CCV @5ppb, IWST-231228A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		01/15/2024 12:21	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/15/2024 12:30	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/15/2024 12:40	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/15/2024 12:49	Finished	LCS @5ppb, IWST-231228B
15	N062312-006A,SAMP	7	1000	Unknown		01/15/2024 12:59	Finished	SAMP,10 mL
16	N062312-006AMS,MS	2	1000	Unknown		01/15/2024 13:54	Finished	MS (1ppb), IWST-231228B,10r
17	N062312-006AMSD,MS	3	1000	Unknown		01/15/2024 14:03	Finished	MSD (1ppb), IWST-231228B,10r
18	N062312-006ADUP,MS	4	1000	Unknown		01/15/2024 14:13	Finished	DUP,10 mL
19	N062312-006A,SAMP	5	1000	Unknown		01/15/2024 14:22	Finished	SAMP,2>10 mL
20	N062312-006AMS,MS	6	1000	Unknown		01/15/2024 14:32	Finished	MS (1ppb), IWST-231228B,2>
21	N062312-006AMSD,MS	7	1000	Unknown		01/15/2024 14:41	Finished	MSD (1ppb), IWST-231228B,2>
22	N062312-006ADUP,MS	8	1000	Unknown		01/15/2024 14:50	Finished	DUP,2>10 mL
23	CCV-2.CCV1,1,	9	1000	Unknown		01/15/2024 15:00	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		01/15/2024 15:09	Finished	CCB R231030A
25	N062312-001A,SAMP	1	1000	Unknown		01/15/2024 15:22	Finished	SAMP,2>10 mL
26	N062312-001AMS,MS	2	1000	Unknown		01/15/2024 15:33	Finished	MS (5ppb), IWST-231228B,2>
27	N062312-007A,SAMP	3	1000	Unknown		01/15/2024 15:43	Finished	SAMP,2>10 mL
28	N062312-007AMS,MS	4	1000	Unknown		01/15/2024 15:52	Finished	MS (5ppb), IWST-231228B,2>
29	N062312-013A,SAMP	5	1000	Unknown		01/15/2024 16:02	Finished	SAMP,2>10 mL
30	N062312-013AMS,MS	6	1000	Unknown		01/15/2024 16:11	Finished	MS (5ppb), IWST-231228B,2>
31	N062312-015A,SAMP	7	1000	Unknown		01/15/2024 16:21	Finished	SAMP,0.2>10 mL
32	N062312-015AMS,MS	8	1000	Unknown		01/15/2024 16:30	Finished	MS (5ppb), IWST-231228B,0.2
33	N062312-003A,SAMP	9	1000	Unknown		01/15/2024 16:40	Finished	SAMP,10 mL
34	N062312-003AMS,MS	10	1000	Unknown		01/15/2024 16:49	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3.CCV,1,	11	1000	Unknown		01/15/2024 16:59	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	12	1000	Unknown		01/15/2024 17:08	Finished	CCB R231030A
37	N062312-004A,SAMP	13	1000	Unknown		01/15/2024 17:18	Finished	SAMP,10 mL
38	N062312-004AMS,MS	14	1000	Unknown		01/15/2024 17:27	Finished	MS (1ppb), IWST-231228B,10r
39	N062312-005A,SAMP	15	1000	Unknown		01/15/2024 17:37	Finished	SAMP,10 mL
40	N062312-005AMS,MS	16	1000	Unknown		01/15/2024 17:46	Finished	MS (1ppb), IWST-231228B,10r
41	N062312-008A,SAMP	17	1000	Unknown		01/15/2024 17:55	Finished	SAMP,10 mL
42	N062312-008AMS,MS	18	1000	Unknown		01/15/2024 18:05	Finished	MS (1ppb), IWST-231228B,10r
43	N062312-009A,SAMP	19	1000	Unknown		01/15/2024 18:14	Finished	SAMP,10 mL
44	N062312-009AMS,MS	20	1000	Unknown		01/15/2024 18:24	Finished	MS (1ppb), IWST-231228B,10r
45	N062312-010A,SAMP	21	1000	Unknown		01/15/2024 18:33	Finished	SAMP,10 mL
46	N062312-010AMS,MS	22	1000	Unknown		01/15/2024 18:43	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	23	1000	Unknown		01/15/2024 18:52	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	24	1000	Unknown		01/15/2024 19:02	Finished	CCB R231030A
49	N062312-011A,SAMP	25	1000	Unknown		01/15/2024 19:11	Finished	SAMP,10 mL
50	N062312-011AMS,MS	26	1000	Unknown		01/15/2024 19:21	Finished	MS (1ppb), IWST-231228B,10r
51	N062312-012A,SAMP	27	1000	Unknown		01/15/2024 19:30	Finished	SAMP,0.1>10 mL
52	N062312-012AMS,MS	28	1000	Unknown		01/15/2024 19:39	Finished	MS (5ppb), IWST-231228B,0.1
53	N062312-016A,SAMP	29	1000	Unknown		01/15/2024 19:49	Finished	SAMP,10 mL
54	N062312-016AMS,MS	30	1000	Unknown		01/15/2024 19:58	Finished	MS (1ppb), IWST-231228B,10r
55	N062312-017A,SAMP	31	1000	Unknown		01/15/2024 20:08	Finished	SAMP,10 mL
56	N062312-017AMS,MS	32	1000	Unknown		01/15/2024 20:17	Finished	MS (1ppb), IWST-231228B,10r
57	N062312-018A,SAMP	33	1000	Unknown		01/15/2024 20:27	Finished	SAMP,10 mL
58	N062312-018AMS,MS	34	1000	Unknown		01/15/2024 20:36	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5.CCV,1,	35	1000	Unknown		01/15/2024 20:46	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	36	1000	Unknown		01/15/2024 20:55	Finished	CCB R231227C

61	N062312-019A,SAMF	37	1000	Unknown		01/15/2024 21:05	Finished	SAMP,10 mL
62	N062312-019AMS,M\$	38	1000	Unknown		01/15/2024 21:14	Finished	MS (1ppb), IWST-231228B,10r
63	N062312-002A,SAMF	39	1000	Unknown		01/15/2024 21:23	Finished	SAMP,10 mL
64	N062312-002AMS,M\$	40	1000	Unknown		01/15/2024 21:33	Finished	MS (1ppb), IWST-231228B,10r
65	N062312-015A,SAMF	41	1000	Unknown		01/15/2024 21:42	Finished	SAMP,10 mL
66	N062312-015AMS,M\$	42	1000	Unknown		01/15/2024 21:52	Finished	MS (1ppb), IWST-231228B,10r
67	N062312-002A,SAMF	43	1000	Unknown		01/15/2024 22:01	Finished	SAMP,2>10 mL
68	N062312-002AMS,M\$	44	1000	Unknown		01/15/2024 22:11	Finished	MS (1ppb), IWST-231228B,2>
69	N062312-015A,SAMF	45	1000	Unknown		01/15/2024 22:20	Finished	SAMP,2>10 mL
70	N062312-015AMS,M\$	46	1000	Unknown		01/15/2024 22:30	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	47	1000	Unknown		01/15/2024 22:39	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	48	1000	Unknown		01/15/2024 22:49	Finished	CCB R231227C
73	BLANK	49	1000	Unknown		01/15/2024 22:58	Finished	BLANK
74	SHUTDOWN	50	1000	Unknown		01/15/2024 23:07	Finished	
75	Eluent: R240114A	51	1000	Unknown		n.a.	Finished	
76	PCR: R240114B	CurrentVial	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation						
Date Prepared: <u>11/11/24</u>			Reagent ID:			
Time Prepared: <u>14:08</u>			Sulfuric Acid: <u>14225</u>		Con NaOH: <u>12312285</u>	
Prepared By: <u>no</u>			Diphenylcarbazide: <u>15209</u>			
			NH4OH + NH4SO4 eluent: <u>1240105A</u>			
			NH4OH + NH4SO4 buffer: <u>1291228</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) <u>M062310-1A</u>	<u>9.22</u>	-	<u>250mL</u>	<u>250mL</u>		
2) <u>2A</u>	<u>9.31</u>	-				
3) <u>3A</u>	<u>9.46</u>	-				
4) <u>4A</u>	<u>9.45</u>	-				
5) <u>5A</u>	<u>8.84</u>	<u>9.47</u>			<u>+6</u>	
6) <u>6A</u>	<u>8.82</u>	<u>9.43</u>			<u>+6</u>	
7) <u>7A</u>	<u>8.96</u>	<u>9.40</u>			<u>+5</u>	
8) <u>8A</u>	<u>8.94</u>	<u>9.39</u>			<u>+5</u>	
9) <u>9A</u>	<u>8.51</u>	<u>9.64</u>			<u>+8</u>	
10) <u>10A</u>	<u>8.41</u>	<u>9.61</u>			<u>+8</u>	
11) <u>11A</u>	<u>8.39</u>	<u>9.60</u>			<u>+8</u>	
12) <u>12A</u>	<u>9.41</u>	-				
13) <u>13A</u>	<u>9.42</u>	-				
14) <u>14A</u>	<u>9.46</u>	-				
15) <u>15A</u>	<u>9.14</u>	-				
	<u>16A</u>	<u>9.10</u>				

Sample Preparation						
Date Prepared: <u>1/11/24</u>			Reagent ID:			
Time Prepared: <u>14:08</u>			Sulfuric Acid: <u>14225</u>		Con NaOH: <u>12312285</u>	
Prepared By: <u>no</u>			Diphenylcarbazide: <u>15209</u>			
			NH4OH + NH4SO4 eluent: <u>1240105A</u>			
			NH4OH + NH4SO4 buffer: <u>1291228</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) <u>M062310-17A</u>	<u>9.48</u>	-	<u>250mL</u>	<u>250mL</u>		
2) <u>18A</u>	<u>9.27</u>	-				
3) <u>19A</u>	<u>9.21</u>	-				
4) <u>20A</u>	<u>9.26</u>	-				
5) <u>21A</u>	<u>9.34</u>	-				
6) <u>22A</u>	<u>9.54</u>	-				
7) <u>23A</u>	<u>9.56</u>	-				
8) <u>24A</u>	<u>9.72</u>	-				
9) <u>M062311-1A</u>	<u>9.37</u>	-				
10) <u>M062312-1A</u>	<u>9.20</u>	-				
11) <u>2A</u>	<u>9.20</u>	-				
12) <u>3A</u>	<u>9.41</u>	-				
13) <u>4A</u>	<u>9.39</u>	-				
14) <u>5A</u>	<u>9.22</u>	-				
15) <u>6A</u>	<u>9.60</u>	-				
	<u>7A</u>	<u>9.52</u>				

Logbook No. 24



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3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert 100922
ORELAP Cert 4046 (EPA TO-15 & TO-15a)

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Hexavalent Chromium Preparation and Runlog

Sample Preparation							
Date Prepared: <u>1/11/24</u>			Reagent ID: _____				
Time Prepared: <u>11:5/14:00H</u>			Sulfuric Acid: <u>14375</u>				
Prepared By: <u>NA</u>			Diphenylcarbazide: <u>15709</u>				
			NH4OH + NH4SO4 eluent: <u>N240108A</u>				
			NH4OH + NH4SO4 buffer: <u>N231228B</u>				
1)	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
	<u>M62312-8A</u>	<u>9.60</u>	<u>-</u>	<u>-200 uL</u>	<u>-200 uL</u>		
	<u>9A</u>	<u>9.67</u>	<u>-</u>				
	<u>10A</u>	<u>9.08</u>	<u>9.49</u>			<u>+5</u>	
	<u>11A</u>	<u>9.72</u>	<u>-</u>				
	<u>12A</u>	<u>9.73</u>	<u>-</u>				
	<u>13A</u>	<u>9.76</u>	<u>-</u>				
	<u>14A</u>	<u>9.44</u>	<u>-</u>				
	<u>15A</u>	<u>9.32</u>	<u>-</u>				
	<u>16A</u>	<u>9.30</u>	<u>-</u>				
	<u>17A</u>	<u>9.37</u>	<u>-</u>				
	<u>18A</u>	<u>9.31</u>	<u>-</u>				
	<u>19A</u>	<u>9.69</u>	<u>-</u>				
	<u>M62314-20</u>	<u>7.05</u>	<u>9.50</u>			<u>+0.2uL N231228B / 10uL PV</u>	

Sample Preparation							
Date Prepared: <u>1/12/24</u>			Reagent ID: _____				
Time Prepared: <u>11:00H</u>			Sulfuric Acid: <u>14375</u>				
Prepared By: <u>NA</u>			Diphenylcarbazide: <u>15709</u>				
			NH4OH + NH4SO4 eluent: <u>N240108A</u>				
			NH4OH + NH4SO4 buffer: <u>N231228B</u>				
1)	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
	<u>M62345-03</u>	<u>7.48</u>	<u>9.47</u>	<u>-200uL</u>	<u>100uL</u>	<u>+0.2uL N231228B / 10uL PV</u>	
	<u>M62346-1A</u>	<u>9.39</u>	<u>-</u>				
	<u>2A</u>	<u>9.47</u>	<u>-</u>				
	<u>3A</u>	<u>7.68</u>	<u>-</u>				
	<u>M62348-1A</u>	<u>9.31</u>	<u>-</u>				
	<u>2A</u>	<u>9.42</u>	<u>-</u>				
	<u>3A</u>	<u>9.44</u>	<u>-</u>				
	<u>4A</u>	<u>9.11</u>	<u>9.49</u>			<u>+4</u>	
	<u>5A</u>	<u>9.72</u>	<u>-</u>				
	<u>6A</u>	<u>9.31</u>	<u>-</u>				
	<u>7A</u>	<u>8.81</u>	<u>9.54</u>			<u>+5</u>	
	<u>8A</u>	<u>8.85</u>	<u>9.53</u>			<u>+5</u>	
	<u>9A</u>	<u>9.39</u>	<u>-</u>				
	<u>10A</u>	<u>9.45</u>	<u>-</u>				
	<u>11A</u>	<u>9.74</u>	<u>-</u>				
	<u>M62350-10</u>	<u>9.47</u>	<u>-</u>				

Logbook No. 24



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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ICV	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5628028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 12/29/2023	SeqNo: 5628029							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: CCV	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628031							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.927 0.20 5.000 0 98.5 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628032							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.204 0.20 0.2000 0 102 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628040							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 9.873 0.20 10.00 0 98.7 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: CCV	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628052	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.071	0.20	5.000	0	101	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628064	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.050	0.20	10.00	0	101	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: CCV	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628076	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.085	0.20	5.000	0	102	95	105
---------------------	-------	------	-------	---	-----	----	-----

Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: ZZZZZZ	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628084	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.068	0.20	10.00	0	101	95	105
---------------------	--------	------	-------	---	-----	----	-----

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: ICB	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5628030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434						
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6		Analysis Date: 1/15/2024	SeqNo: 5628065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628077	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20
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Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180434
Client ID: CCB	Batch ID: R180434	TestNo: EPA 218.6	Analysis Date: 1/15/2024	SeqNo: 5628085	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20
---------------------	----	------

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/15/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.023	
CCV-3	4.023	
CCV-4	4.023	
CCV-5	4.023	
CCV-6	4.023	

Average 4.022
Actual RT Window 3.942 - 4.102
Applied RT Window 3.822 - 4.222

MB-R180434	N.A.	N.A.
LCS-R180434	4.015	PASS
N062312-006A	3.823	PASS
N062312-006AMS	3.831	PASS
N062312-006AMSD	3.831	PASS
N062312-006ADUP	3.831	PASS
N062312-006A	3.990	PASS
N062312-006AMS	3.990	PASS
N062312-006AMSD	3.990	PASS
N062312-006ADUP	3.990	PASS
N062312-001A	3.973	PASS
N062312-001AMS	3.973	PASS
N062312-007A	3.998	PASS
N062312-007AMS	3.998	PASS
N062312-013A	3.998	PASS
N062312-013AMS	3.990	PASS
N062312-014A	4.015	PASS
N062312-014AMS	4.023	PASS
N062312-003A	3.848	PASS
N062312-003AMS	3.840	PASS
N062312-004A	N.A.	N.A.
N062312-004AMS	3.823	PASS

Reviewed by:

JRocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/15/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.023	
CCV-3	4.023	
CCV-4	4.023	
CCV-5	4.023	
CCV-6	4.023	

Average 4.022
Actual RT Window 3.942 - 4.102
Applied RT Window 3.822 - 4.222

N062312-005A	N.A.	N.A.
N062312-005AMS	3.865	PASS
N062312-008A	3.831	PASS
N062312-008AMS	3.840	PASS
N062312-009A	N.A.	N.A.
N062312-009AMS	4.023	PASS
N062312-010A	3.840	PASS
N062312-010AMS	3.840	PASS
N062312-011A	3.823	PASS
N062312-011AMS	3.831	PASS
N062312-012A	4.023	PASS
N062312-012AMS	4.023	PASS
N062312-016A	3.831	PASS
N062312-016AMS	3.831	PASS
N062312-017A	3.890	PASS
N062312-017AMS	3.881	PASS
N062312-018A	N.A.	N.A.
N062312-018AMS	3.823	PASS
N062312-019A	N.A.	N.A.
N062312-019AMS	4.023	PASS
N062312-002A	N.A.	N.A.
N062312-015A	3.840	PASS

Reviewed by:

d/Rocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/15/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.015	
CCV-2	4.023	
CCV-3	4.023	
CCV-4	4.023	
CCV-5	4.023	
CCV-6	4.023	

Average 4.022

Actual RT Window 3.942 - 4.102

Applied RT Window 3.822 - 4.222

N062312-015AMS	3.840	PASS
N062312-002A	3.973	PASS
N062312-002AMS	3.973	PASS
N062312-015A	3.990	PASS
N062312-015AMS	3.990	PASS

Reviewed by:

d/Rocha 1/30/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

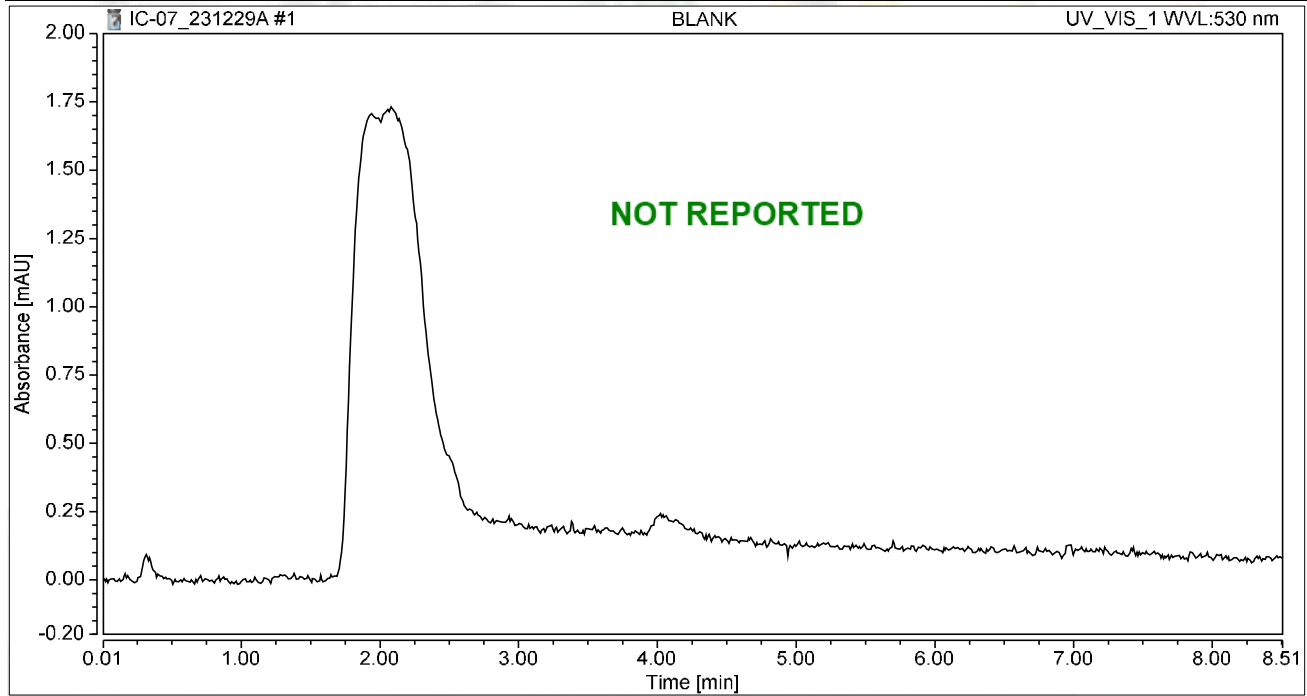
No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

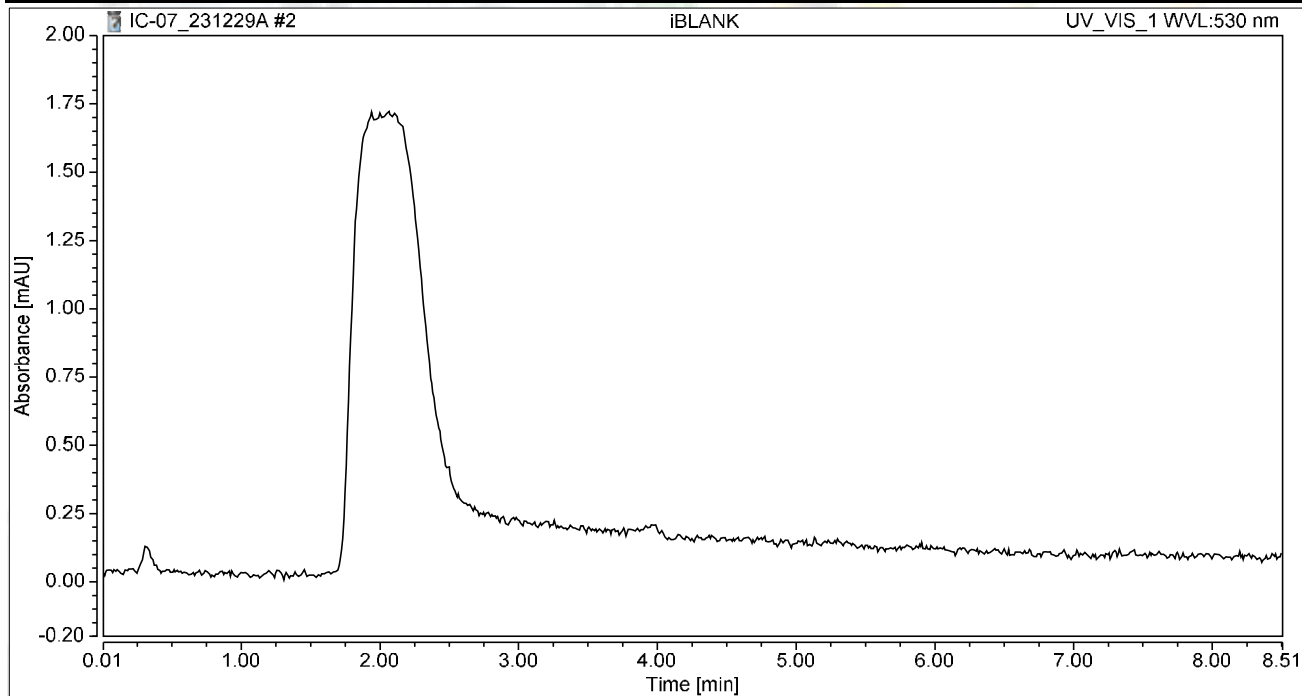
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Denny

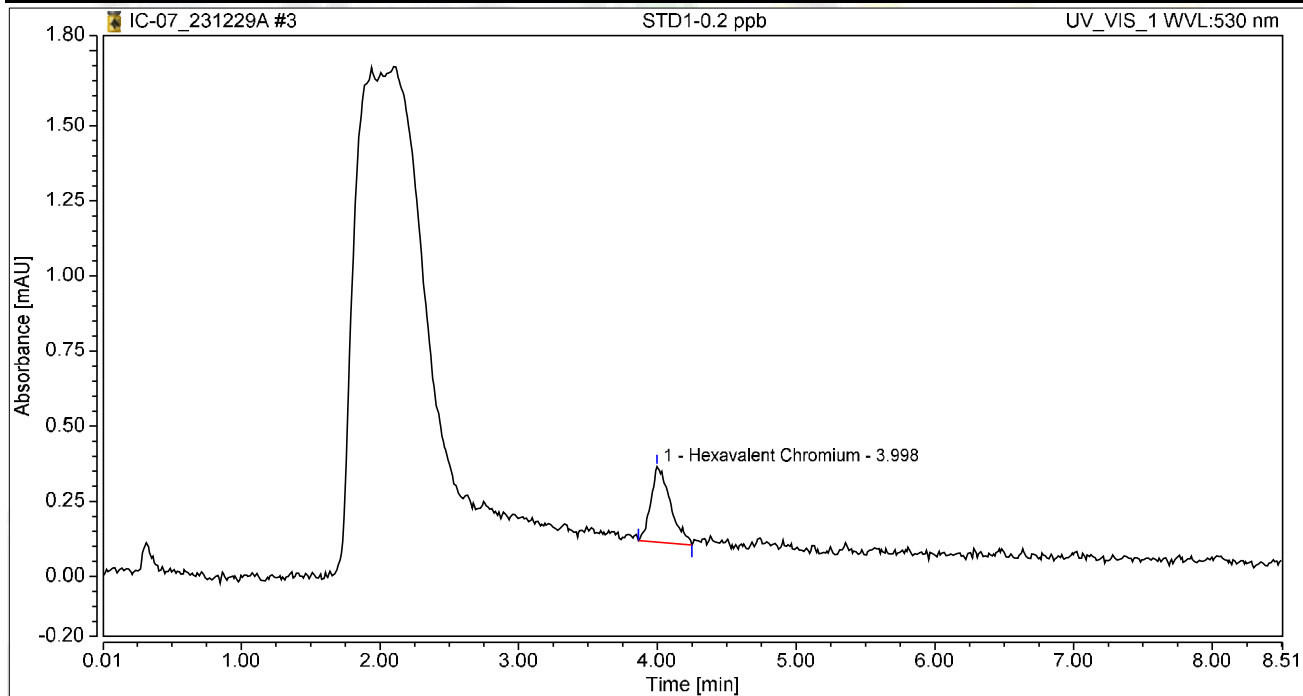
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

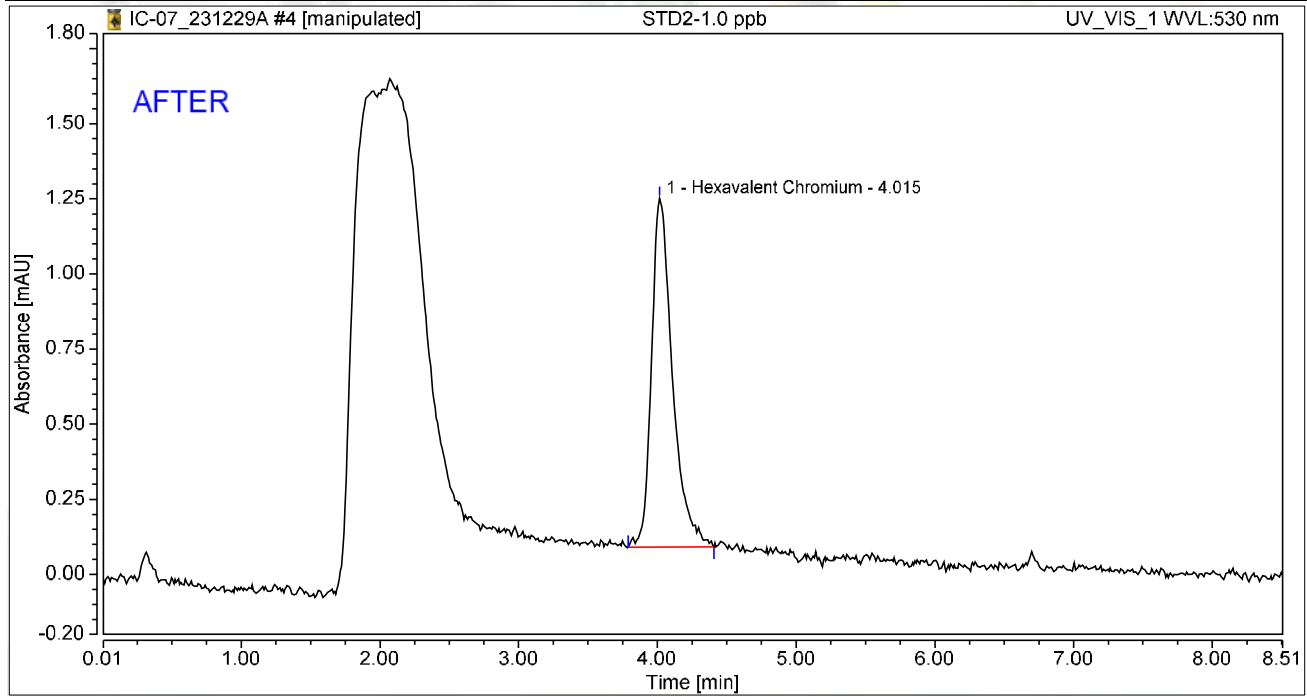
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

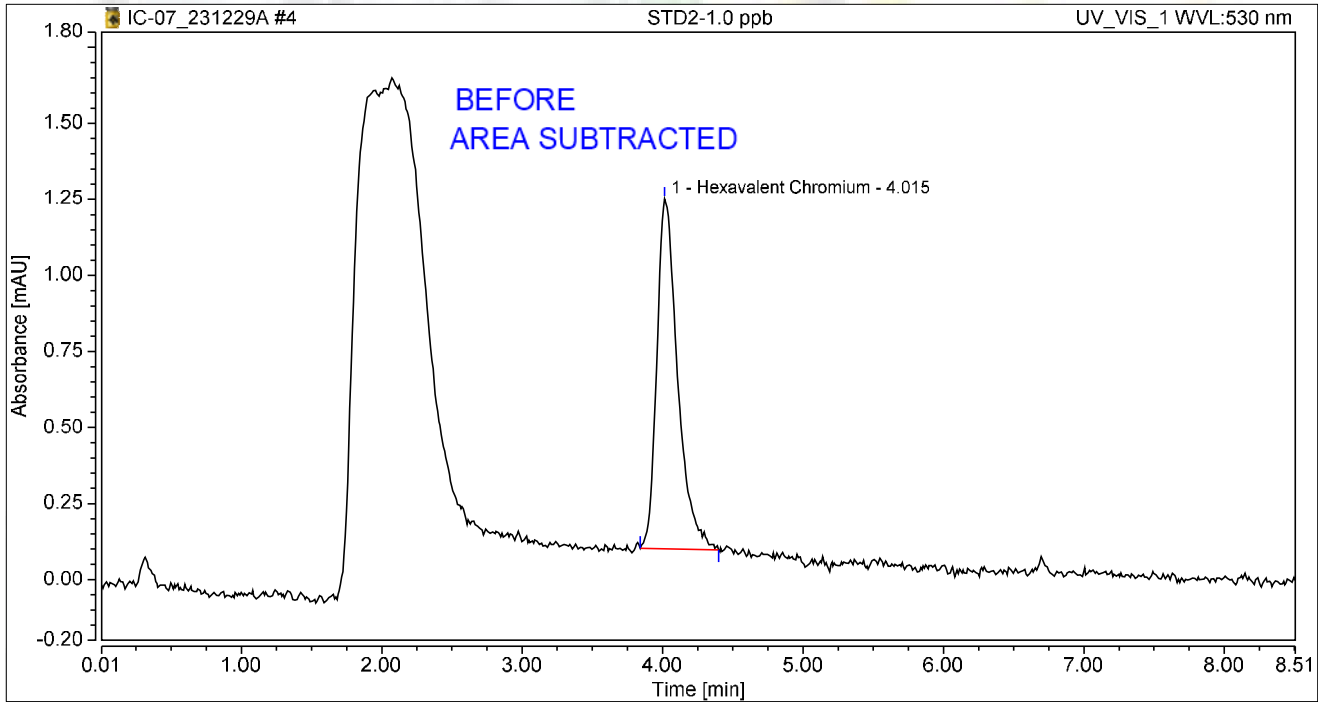
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

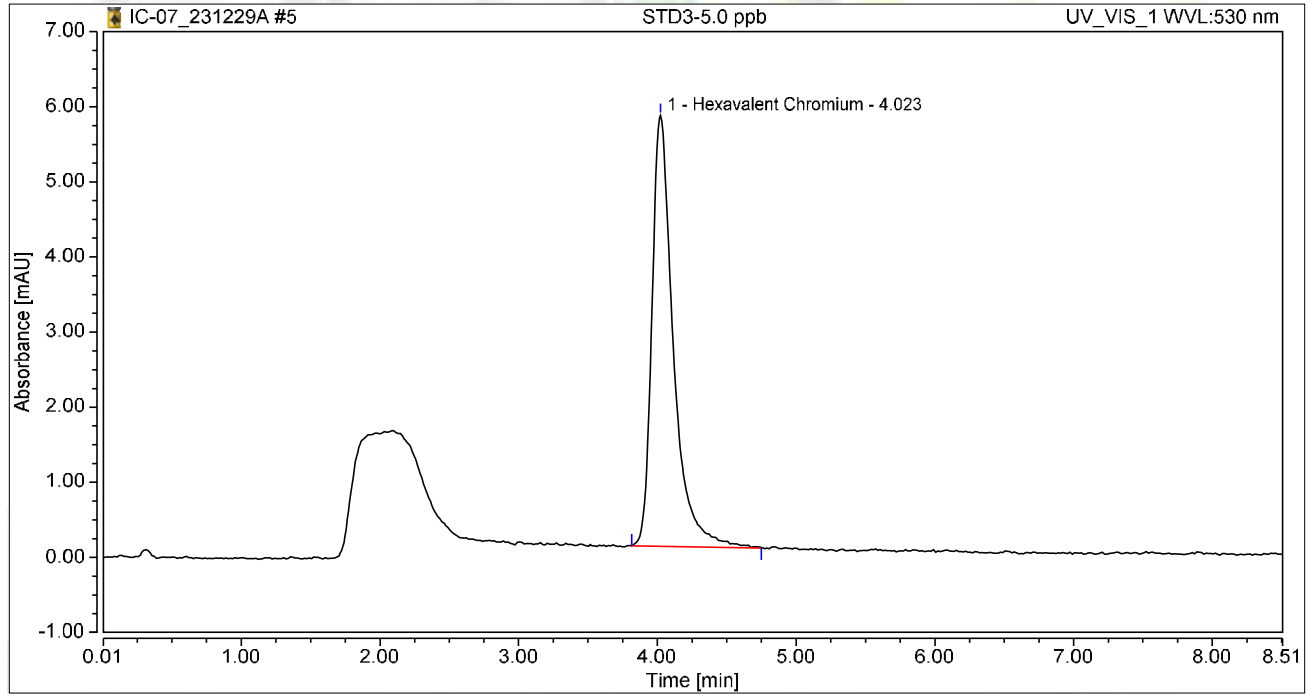
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

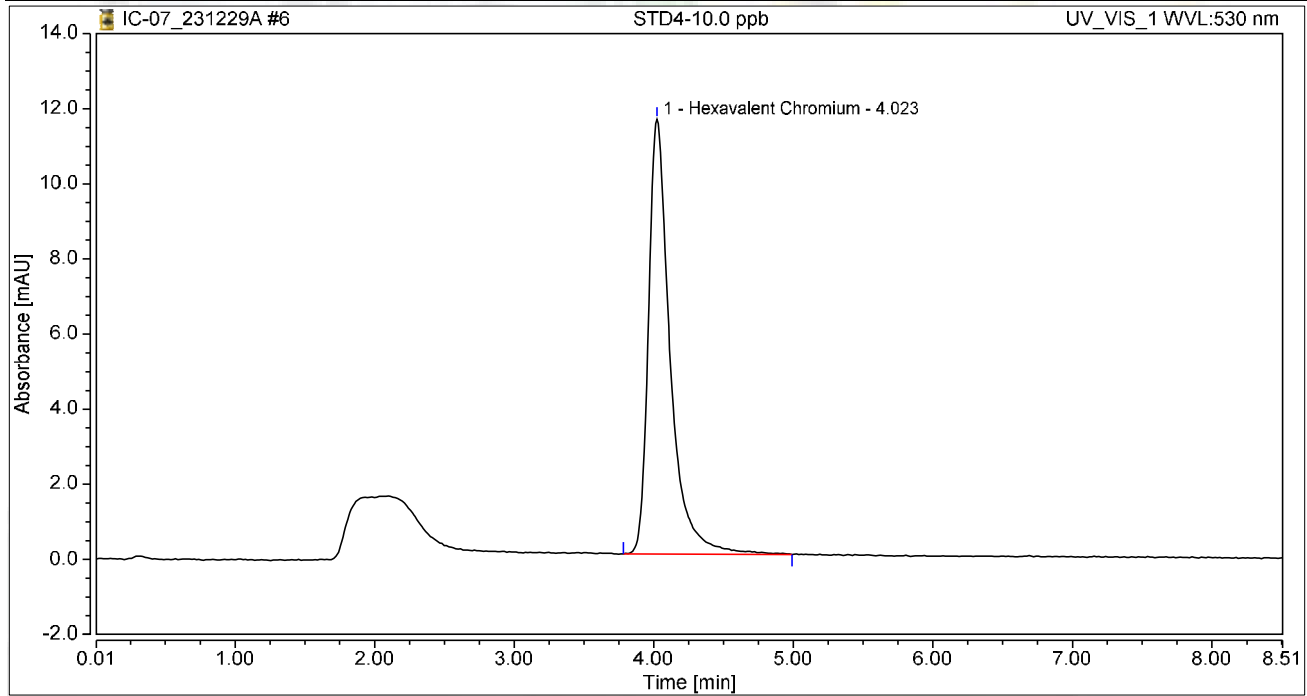
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

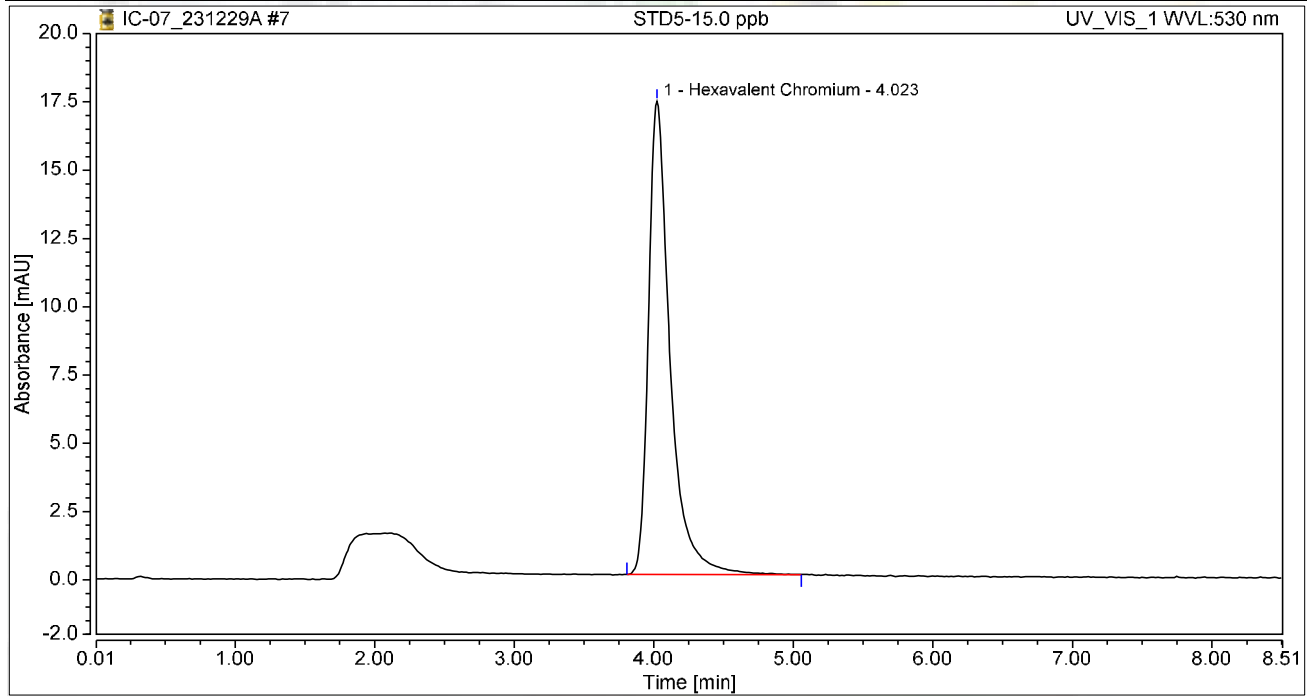
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

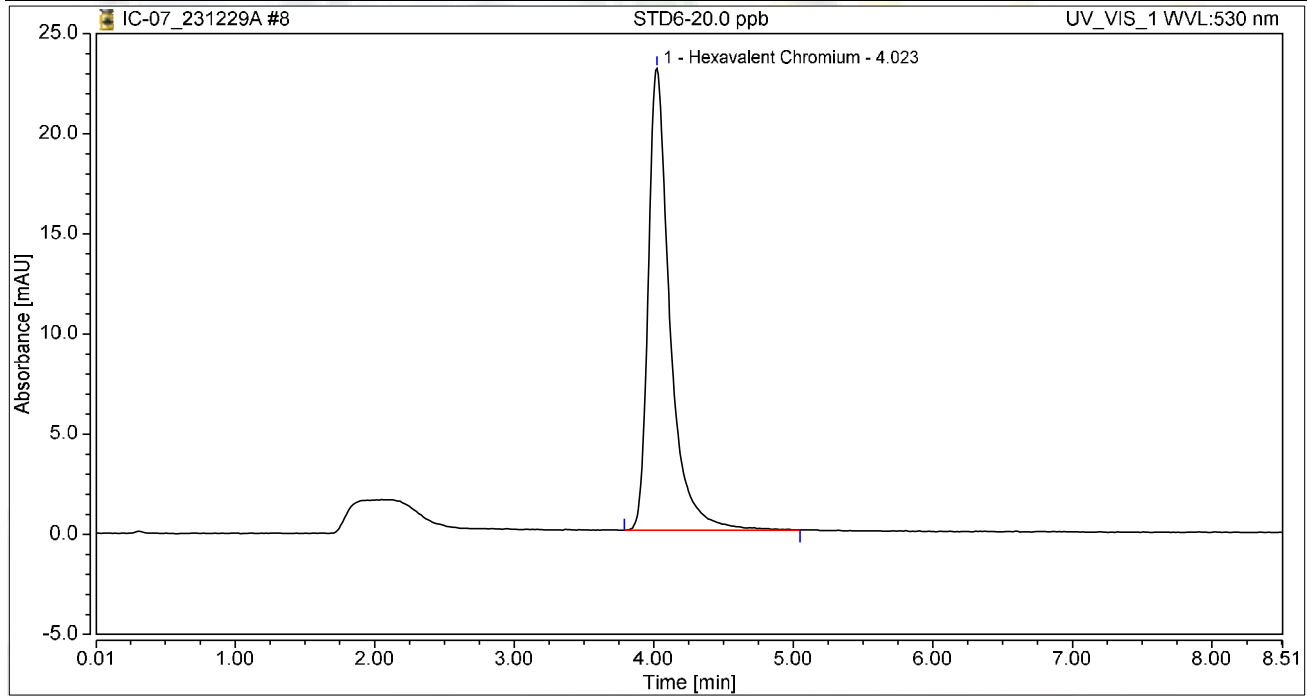
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

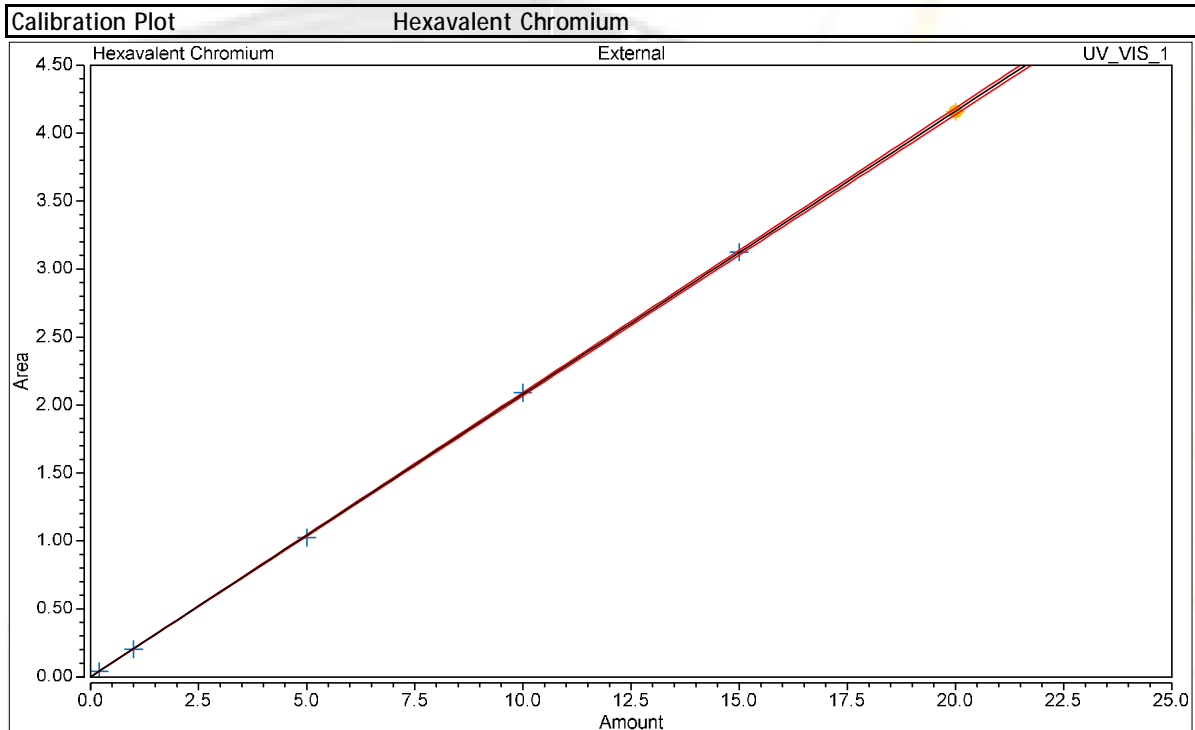
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



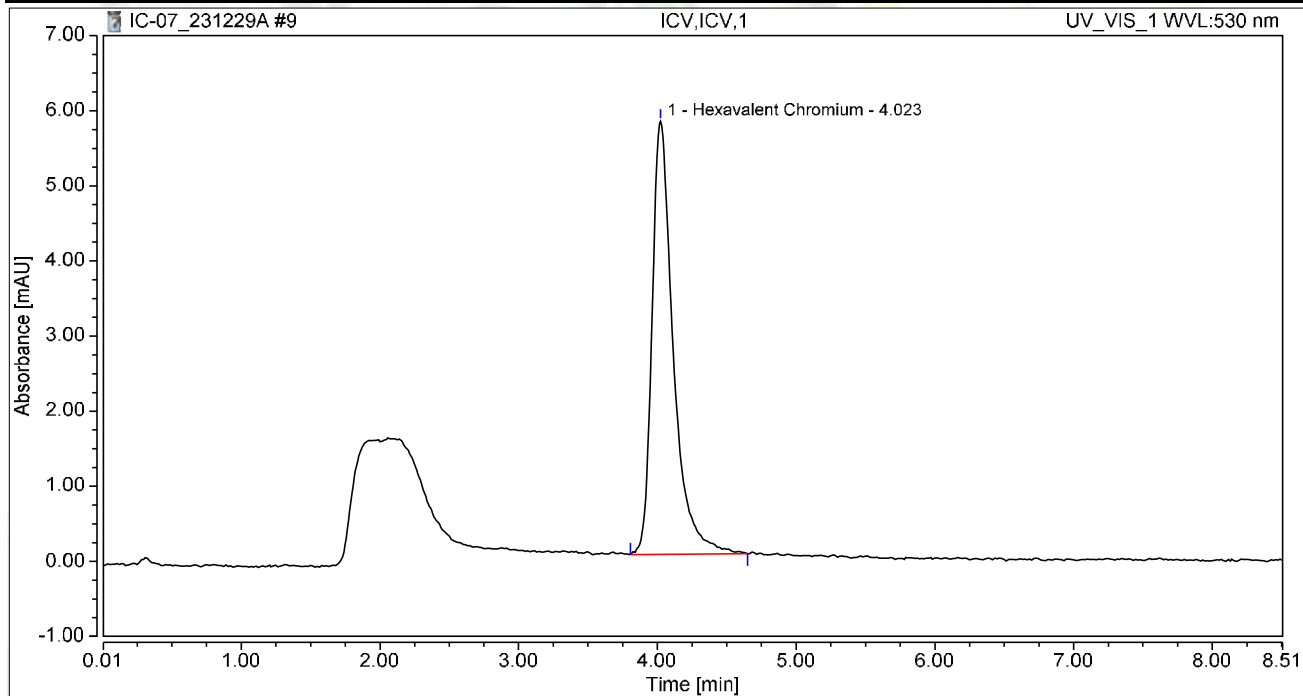
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



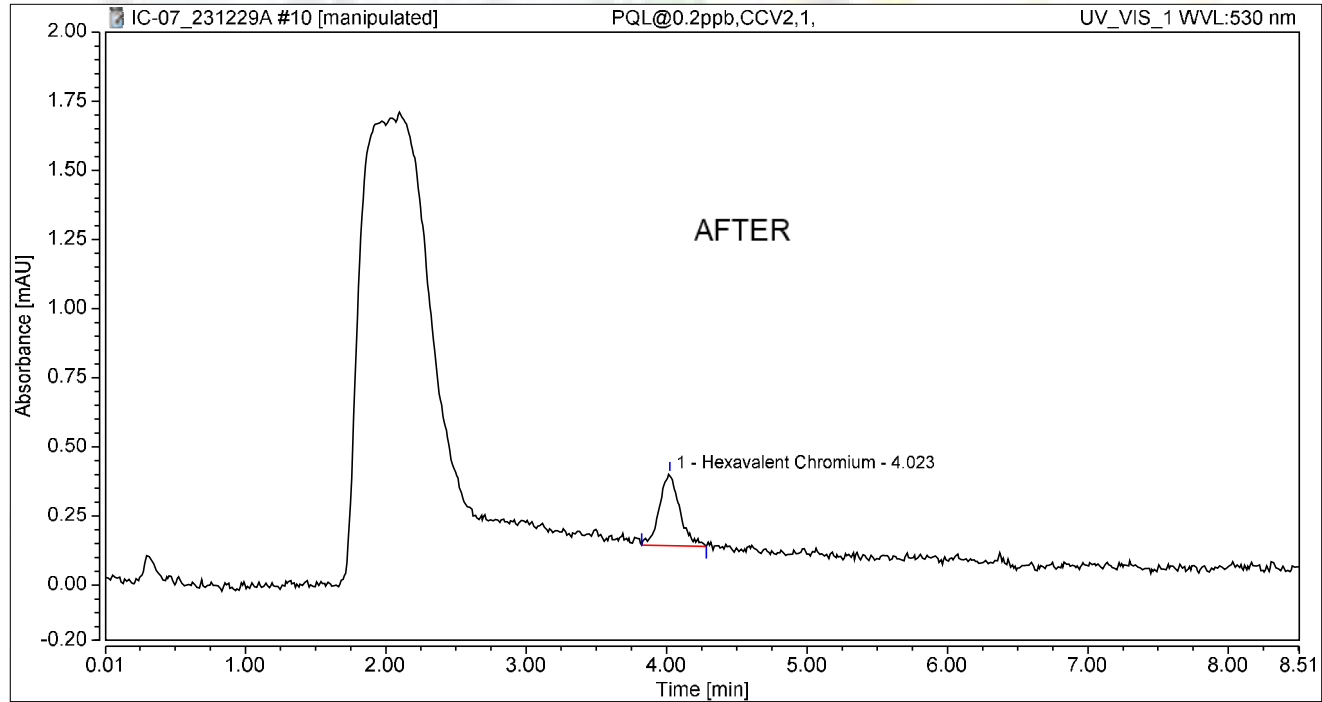
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

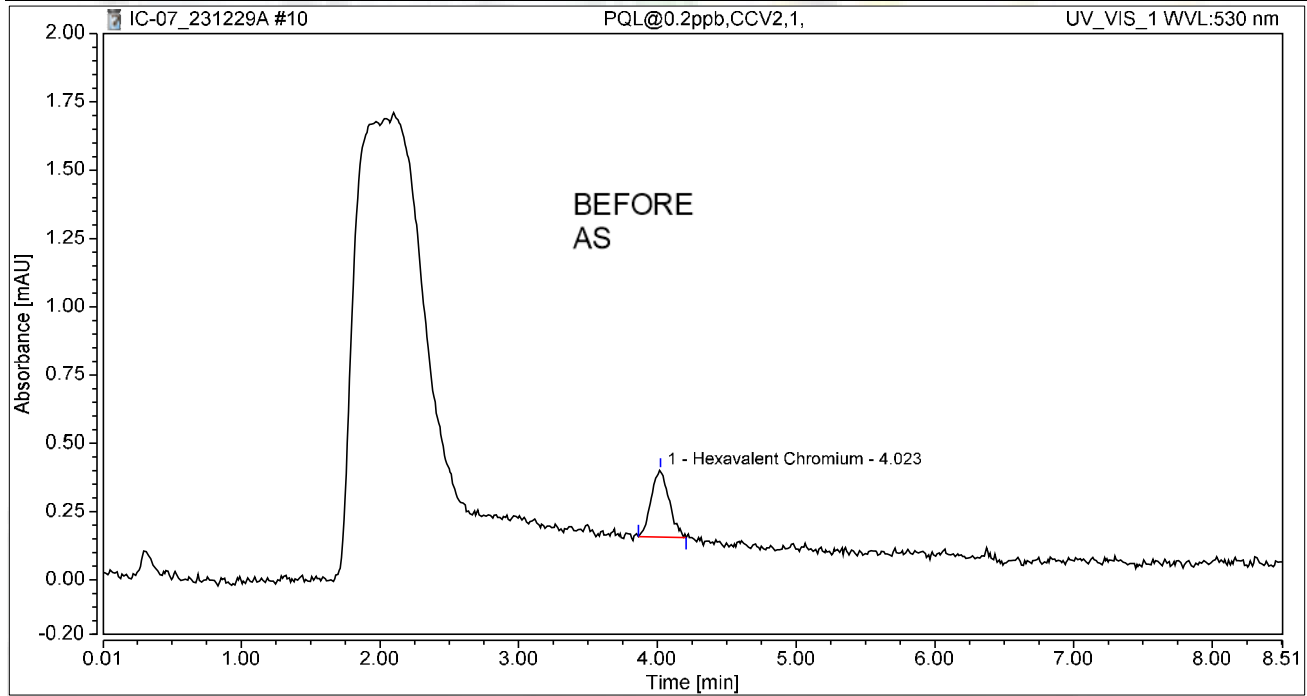
Reviewed by
Nancy 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

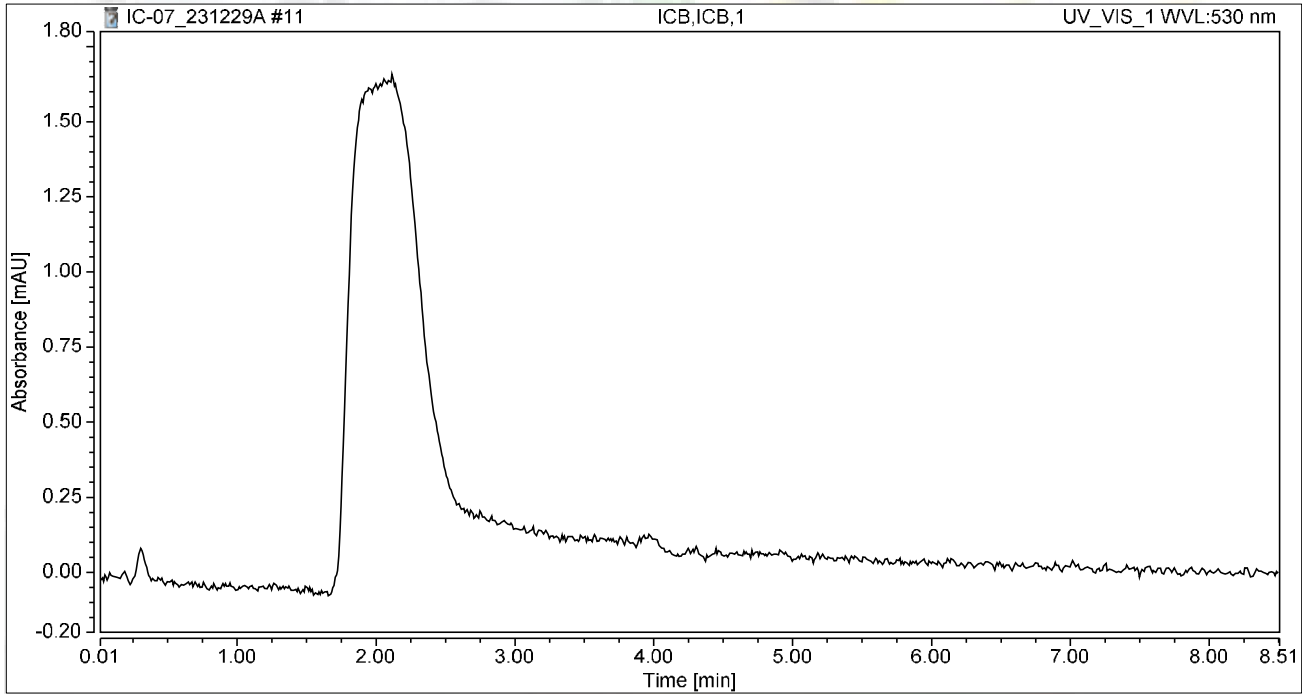
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240115A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/15/24 11:54 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/15/24 12:11 PM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/15/24 12:21 PM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/15/24 12:30 PM	Reported
13	MB-R180434	MBLK	1	Hexavalent Chromium	01/15/24 12:40 PM	Reported
14	LCS-R180434	LCS	1	Hexavalent Chromium	01/15/24 12:49 PM	Reported
15	N062312-006A	SAMP	1	Hexavalent Chromium	01/15/24 12:59 PM	Reported
16	N062312-006AMS	MS	1	Hexavalent Chromium	01/15/24 1:54 PM	Reported
17	N062312-006AMSD	MSD	1	Hexavalent Chromium	01/15/24 2:03 PM	Reported
18	N062312-006ADUP	DUP	1	Hexavalent Chromium	01/15/24 2:13 PM	Reported
19	N062312-006A	SAMP	5	Hexavalent Chromium	01/15/24 2:22 PM	Not Reported
20	N062312-006AMS	MS	5	Hexavalent Chromium	01/15/24 2:32 PM	Not Reported
21	N062312-006AMSD	MSD	5	Hexavalent Chromium	01/15/24 2:41 PM	Not Reported
22	N062312-006ADUP	DUP	5	Hexavalent Chromium	01/15/24 2:50 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/15/24 3:00 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/15/24 3:09 PM	Reported
25	N062312-001A	SAMP	5	Hexavalent Chromium	01/15/24 3:22 PM	Reported
26	N062312-001AMS	MS	5	Hexavalent Chromium	01/15/24 3:33 PM	Reported
27	N062312-007A	SAMP	5	Hexavalent Chromium	01/15/24 3:43 PM	Reported
28	N062312-007AMS	MS	5	Hexavalent Chromium	01/15/24 3:52 PM	Reported
29	N062312-013A	SAMP	5	Hexavalent Chromium	01/15/24 4:02 PM	Reported
30	N062312-013AMS	MS	5	Hexavalent Chromium	01/15/24 4:11 PM	Reported
31	N062312-014A	SAMP	50	Hexavalent Chromium	01/15/24 4:21 PM	Reported
32	N062312-014AMS	MS	50	Hexavalent Chromium	01/15/24 4:30 PM	Reported
33	N062312-003A	SAMP	1	Hexavalent Chromium	01/15/24 4:40 PM	Reported
34	N062312-003AMS	MS	1	Hexavalent Chromium	01/15/24 4:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/15/24 4:59 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/15/24 5:08 PM	Reported
37	N062312-004A	SAMP	1	Hexavalent Chromium	01/15/24 5:18 PM	Reported
38	N062312-004AMS	MS	1	Hexavalent Chromium	01/15/24 5:27 PM	Reported
39	N062312-005A	SAMP	1	Hexavalent Chromium	01/15/24 5:37 PM	Reported
40	N062312-005AMS	MS	1	Hexavalent Chromium	01/15/24 5:46 PM	Reported
41	N062312-008A	SAMP	1	Hexavalent Chromium	01/15/24 5:55 PM	Reported
42	N062312-008AMS	MS	1	Hexavalent Chromium	01/15/24 6:05 PM	Reported

Reviewed by:

JRB 1/25/2024

INJECTION LOG: 240115A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062312-009A	SAMP	1	Hexavalent Chromium	01/15/24 6:14 PM	Reported
44	N062312-009AMS	MS	1	Hexavalent Chromium	01/15/24 6:24 PM	Reported
45	N062312-010A	SAMP	1	Hexavalent Chromium	01/15/24 6:33 PM	Reported
46	N062312-010AMS	MS	1	Hexavalent Chromium	01/15/24 6:43 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/15/24 6:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/15/24 7:02 PM	Reported
49	N062312-011A	SAMP	1	Hexavalent Chromium	01/15/24 7:11 PM	Reported
50	N062312-011AMS	MS	1	Hexavalent Chromium	01/15/24 7:21 PM	Reported
51	N062312-012A	SAMP	100	Hexavalent Chromium	01/15/24 7:30 PM	Reported
52	N062312-012AMS	MS	100	Hexavalent Chromium	01/15/24 7:39 PM	Reported
53	N062312-016A	SAMP	1	Hexavalent Chromium	01/15/24 7:49 PM	Reported
54	N062312-016AMS	MS	1	Hexavalent Chromium	01/15/24 7:58 PM	Reported
55	N062312-017A	SAMP	1	Hexavalent Chromium	01/15/24 8:08 PM	Reported
56	N062312-017AMS	MS	1	Hexavalent Chromium	01/15/24 8:17 PM	Reported
57	N062312-018A	SAMP	1	Hexavalent Chromium	01/15/24 8:27 PM	Reported
58	N062312-018AMS	MS	1	Hexavalent Chromium	01/15/24 8:36 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/15/24 8:46 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/15/24 8:55 PM	Reported
61	N062312-019A	SAMP	1	Hexavalent Chromium	01/15/24 9:05 PM	Reported
62	N062312-019AMS	MS	1	Hexavalent Chromium	01/15/24 9:14 PM	Reported
63	N062312-002A	SAMP	1	Hexavalent Chromium	01/15/24 9:23 PM	Not Reported
64	N062312-002AMS	MS	1	Hexavalent Chromium	01/15/24 9:33 PM	Not Reported
65	N062312-015A	SAMP	1	Hexavalent Chromium	01/15/24 9:42 PM	Reported
66	N062312-015AMS	MS	1	Hexavalent Chromium	01/15/24 9:52 PM	Reported
67	N062312-002A	SAMP	5	Hexavalent Chromium	01/15/24 10:01 PM	Reported
68	N062312-002AMS	MS	5	Hexavalent Chromium	01/15/24 10:11 PM	Reported
69	N062312-015A	SAMP	5	Hexavalent Chromium	01/15/24 10:20 PM	Not Reported
70	N062312-015AMS	MS	5	Hexavalent Chromium	01/15/24 10:30 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/15/24 10:39 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/15/24 10:49 PM	Reported
73	BLANK	BLANK	1	Hexavalent Chromium	01/15/24 10:58 PM	Not Reported



Injection Log Summary

Sequence Details

Name:	IC-07_240115A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	15/Jan/24 23:28:47
No. of Injections:	76	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/15/2024 11:54	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/15/2024 12:11	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/15/2024 12:21	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/15/2024 12:30	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/15/2024 12:40	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/15/2024 12:49	Finished	LCS @5ppb, IWST-231228B
15	N062312-006A,SAMP	7	1000	Unknown		01/15/2024 12:59	Finished	SAMP,10 mL
16	N062312-006AMS,M	2	1000	Unknown		01/15/2024 13:54	Finished	MS (1ppb), IWST-231228B,10r
17	N062312-006AMSD,M	3	1000	Unknown		01/15/2024 14:03	Finished	MSD (1ppb), IWST-231228B,10r
18	N062312-006ADUP,D	4	1000	Unknown		01/15/2024 14:13	Finished	DUP,10 mL
19	N062312-006A,SAMP	5	1000	Unknown		01/15/2024 14:22	Finished	SAMP,2>10 mL
20	N062312-006AMS,M	6	1000	Unknown		01/15/2024 14:32	Finished	MS (1ppb), IWST-231228B,2>
21	N062312-006AMSD,M	7	1000	Unknown		01/15/2024 14:41	Finished	MSD (1ppb), IWST-231228B,2>
22	N062312-006ADUP,D	8	1000	Unknown		01/15/2024 14:50	Finished	DUP,2>10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/15/2024 15:00	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/15/2024 15:09	Finished	CCB R231030A
25	N062312-001A,SAMP	1	1000	Unknown		01/15/2024 15:22	Finished	SAMP,2>10 mL
26	N062312-001AMS,M	2	1000	Unknown		01/15/2024 15:33	Finished	MS (5ppb), IWST-231228B,2>
27	N062312-007A,SAMP	3	1000	Unknown		01/15/2024 15:43	Finished	SAMP,2>10 mL
28	N062312-007AMS,M	4	1000	Unknown		01/15/2024 15:52	Finished	MS (5ppb), IWST-231228B,2>
29	N062312-013A,SAMP	5	1000	Unknown		01/15/2024 16:02	Finished	SAMP,2>10 mL
30	N062312-013AMS,M	6	1000	Unknown		01/15/2024 16:11	Finished	MS (5ppb), IWST-231228B,2>
31	N062312-015A,SAMP	7	1000	Unknown		01/15/2024 16:21	Finished	SAMP,0.2>10 mL
32	N062312-015AMS,M	8	1000	Unknown		01/15/2024 16:30	Finished	MS (5ppb), IWST-231228B,0.2
33	N062312-003A,SAMP	9	1000	Unknown		01/15/2024 16:40	Finished	SAMP,10 mL
34	N062312-003AMS,M	10	1000	Unknown		01/15/2024 16:49	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	11	1000	Unknown		01/15/2024 16:59	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	12	1000	Unknown		01/15/2024 17:08	Finished	CCB R231030A
37	N062312-004A,SAMP	13	1000	Unknown		01/15/2024 17:18	Finished	SAMP,10 mL
38	N062312-004AMS,M	14	1000	Unknown		01/15/2024 17:27	Finished	MS (1ppb), IWST-231228B,10r
39	N062312-005A,SAMP	15	1000	Unknown		01/15/2024 17:37	Finished	SAMP,10 mL
40	N062312-005AMS,M	16	1000	Unknown		01/15/2024 17:46	Finished	MS (1ppb), IWST-231228B,10r
41	N062312-008A,SAMP	17	1000	Unknown		01/15/2024 17:55	Finished	SAMP,10 mL
42	N062312-008AMS,M	18	1000	Unknown		01/15/2024 18:05	Finished	MS (1ppb), IWST-231228B,10r
43	N062312-009A,SAMP	19	1000	Unknown		01/15/2024 18:14	Finished	SAMP,10 mL
44	N062312-009AMS,M	20	1000	Unknown		01/15/2024 18:24	Finished	MS (1ppb), IWST-231228B,10r
45	N062312-010A,SAMP	21	1000	Unknown		01/15/2024 18:33	Finished	SAMP,10 mL
46	N062312-010AMS,M	22	1000	Unknown		01/15/2024 18:43	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	23	1000	Unknown		01/15/2024 18:52	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	24	1000	Unknown		01/15/2024 19:02	Finished	CCB R231030A
49	N062312-011A,SAMP	25	1000	Unknown		01/15/2024 19:11	Finished	SAMP,10 mL
50	N062312-011AMS,M	26	1000	Unknown		01/15/2024 19:21	Finished	MS (1ppb), IWST-231228B,10r
51	N062312-012A,SAMP	27	1000	Unknown		01/15/2024 19:30	Finished	SAMP,0.1>10 mL
52	N062312-012AMS,M	28	1000	Unknown		01/15/2024 19:39	Finished	MS (5ppb), IWST-231228B,0.1
53	N062312-016A,SAMP	29	1000	Unknown		01/15/2024 19:49	Finished	SAMP,10 mL
54	N062312-016AMS,M	30	1000	Unknown		01/15/2024 19:58	Finished	MS (1ppb), IWST-231228B,10r
55	N062312-017A,SAMP	31	1000	Unknown		01/15/2024 20:08	Finished	SAMP,10 mL
56	N062312-017AMS,M	32	1000	Unknown		01/15/2024 20:17	Finished	MS (1ppb), IWST-231228B,10r
57	N062312-018A,SAMP	33	1000	Unknown		01/15/2024 20:27	Finished	SAMP,10 mL
58	N062312-018AMS,M	34	1000	Unknown		01/15/2024 20:36	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	35	1000	Unknown		01/15/2024 20:46	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	36	1000	Unknown		01/15/2024 20:55	Finished	CCB R231227C

61	N062312-019A,SAMF	37	1000	Unknown		01/15/2024 21:05	Finished	SAMP,10 mL
62	N062312-019AMS,M\$	38	1000	Unknown		01/15/2024 21:14	Finished	MS (1ppb), IWST-231228B,10r
63	N062312-002A,SAMF	39	1000	Unknown		01/15/2024 21:23	Finished	SAMP,10 mL
64	N062312-002AMS,M\$	40	1000	Unknown		01/15/2024 21:33	Finished	MS (1ppb), IWST-231228B,10r
65	N062312-015A,SAMF	41	1000	Unknown		01/15/2024 21:42	Finished	SAMP,10 mL
66	N062312-015AMS,M\$	42	1000	Unknown		01/15/2024 21:52	Finished	MS (1ppb), IWST-231228B,10r
67	N062312-002A,SAMF	43	1000	Unknown		01/15/2024 22:01	Finished	SAMP,2>10 mL
68	N062312-002AMS,M\$	44	1000	Unknown		01/15/2024 22:11	Finished	MS (1ppb), IWST-231228B,2>
69	N062312-015A,SAMF	45	1000	Unknown		01/15/2024 22:20	Finished	SAMP,2>10 mL
70	N062312-015AMS,M\$	46	1000	Unknown		01/15/2024 22:30	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	47	1000	Unknown		01/15/2024 22:39	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	48	1000	Unknown		01/15/2024 22:49	Finished	CCB R231227C
73	BLANK	49	1000	Unknown		01/15/2024 22:58	Finished	BLANK
74	SHUTDOWN	50	1000	Unknown		01/15/2024 23:07	Finished	
75	Eluent: R240114A	51	1000	Unknown		n.a.	Finished	
76	PCR: R240114B	CurrentVial	1000	Unknown		n.a.	Finished	

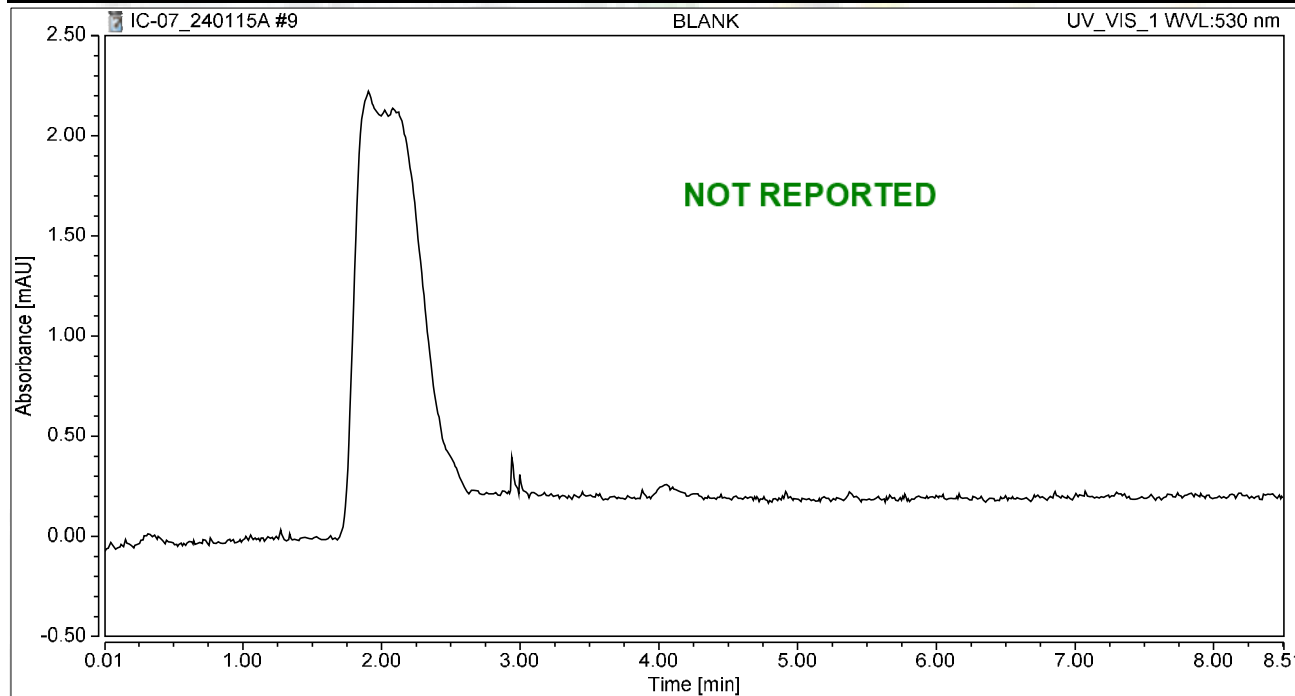


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 11:54	Sample Weight:	1.0000

Chromatogram



Integration Results

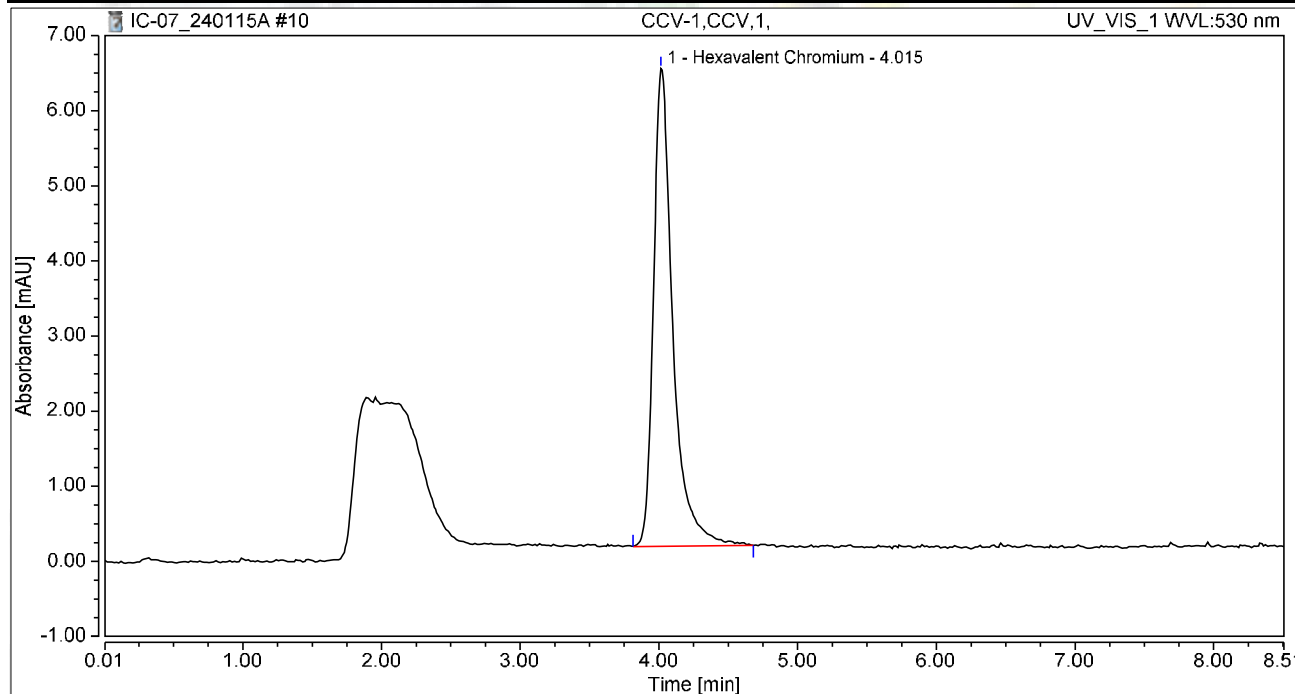
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.025	6.361	100.00	100.00	4.9270
Total:			1.025	6.361	100.00	100.00	

Reviewed by:

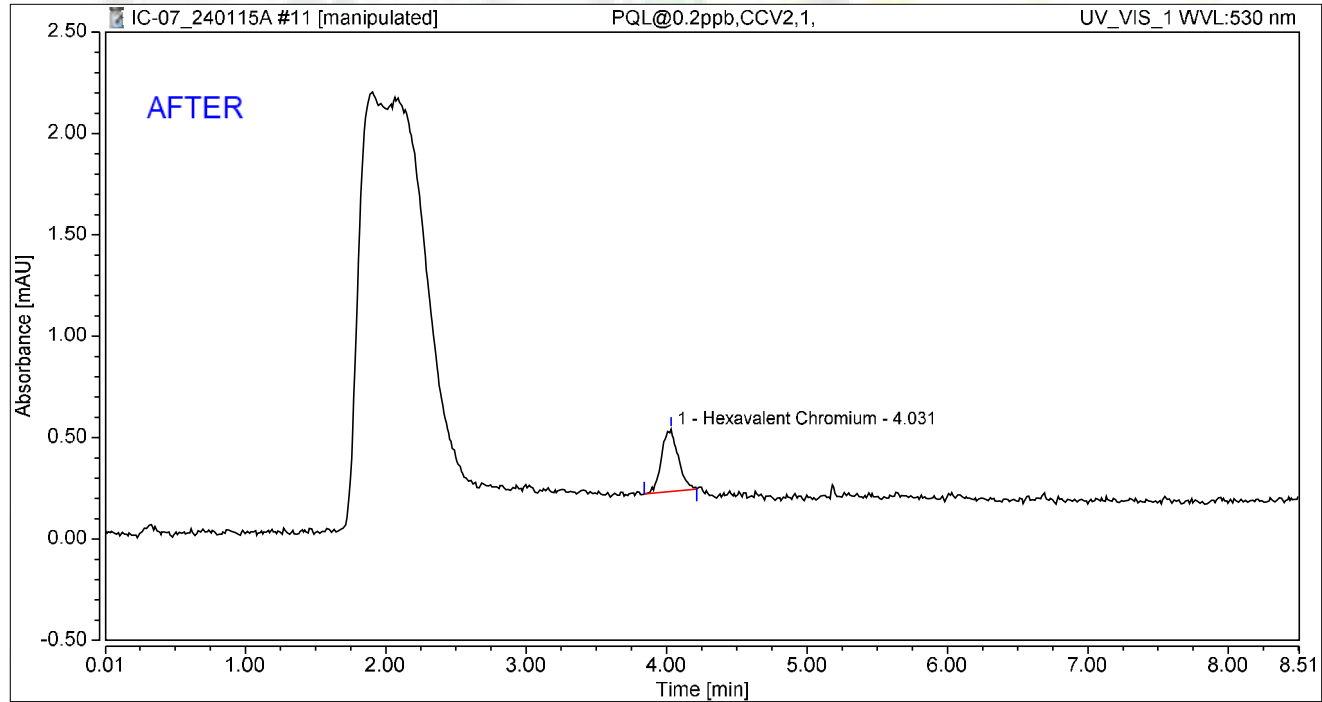
jrb

1/25/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	15/Jan/24 12:21	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.043	0.308	100.00	100.00	0.2043
Total:			0.043	0.308	100.00	100.00	

Reviewed by:

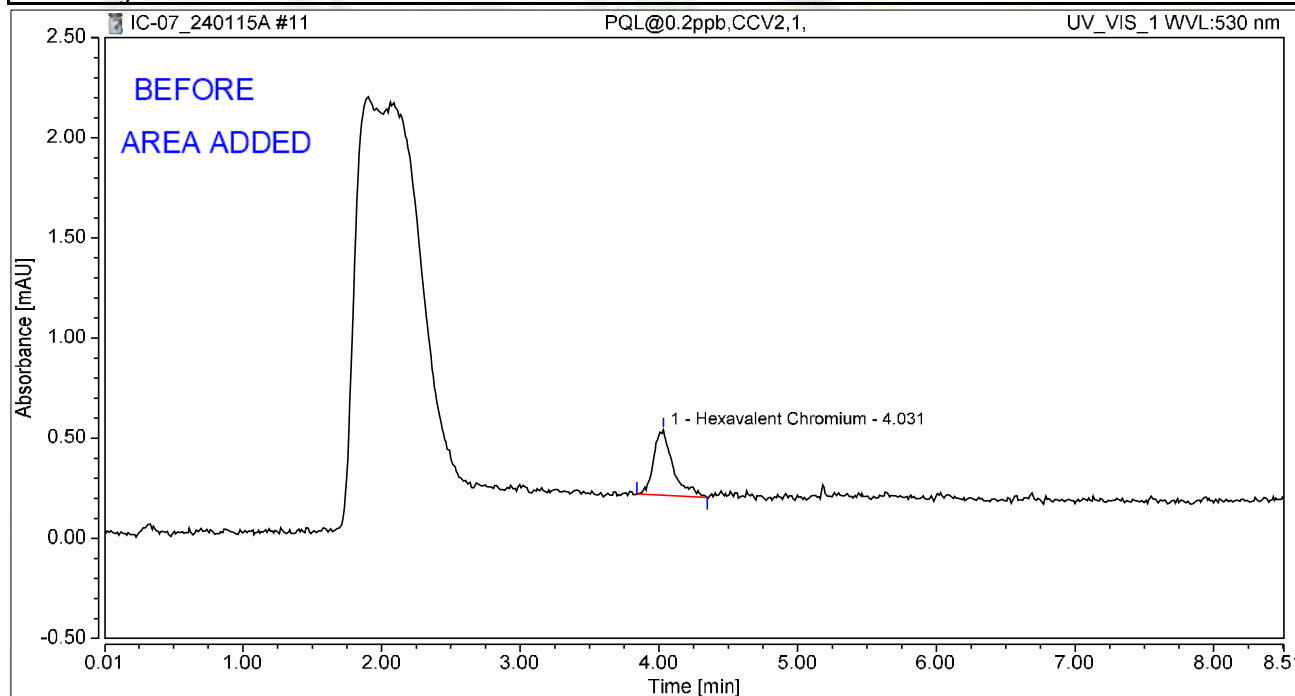
1/25/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 12:21	Sample Weight:	1.0000

Chromatogram



Integration Results

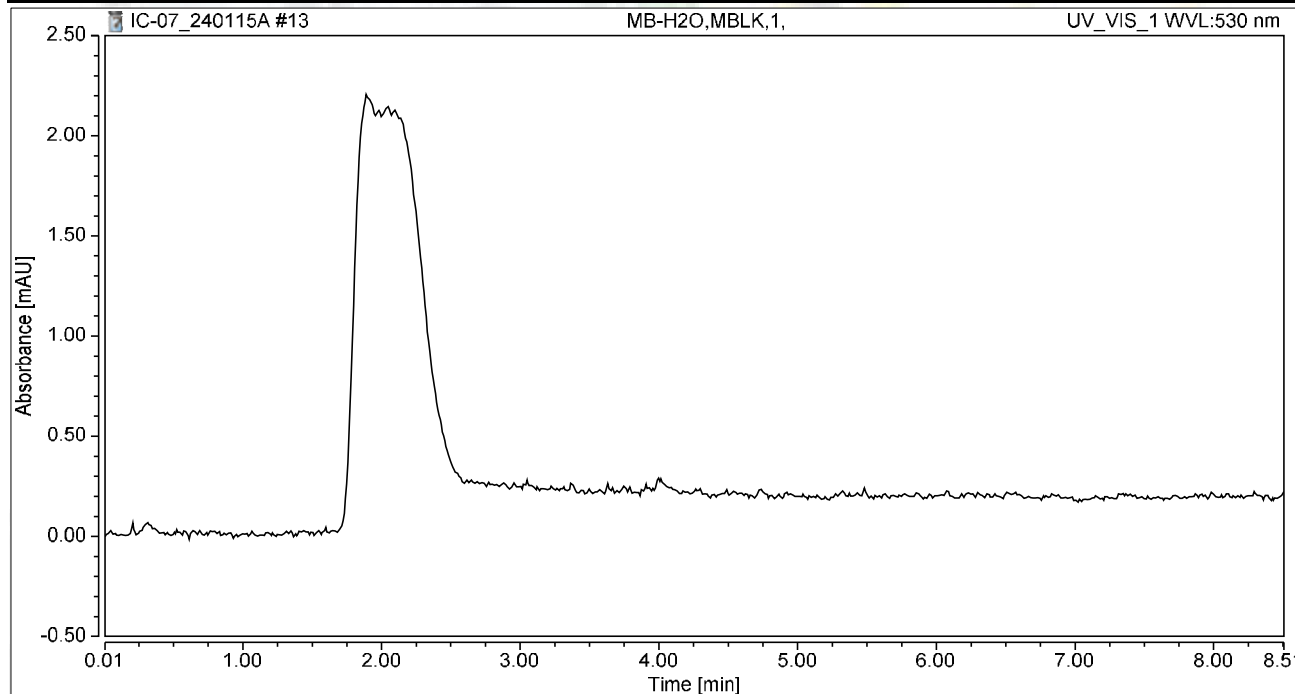
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.053	0.326	100.00	100.00	0.2533
Total:			0.053	0.326	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 12:40	Sample Weight:	1.0000

Chromatogram



Integration Results

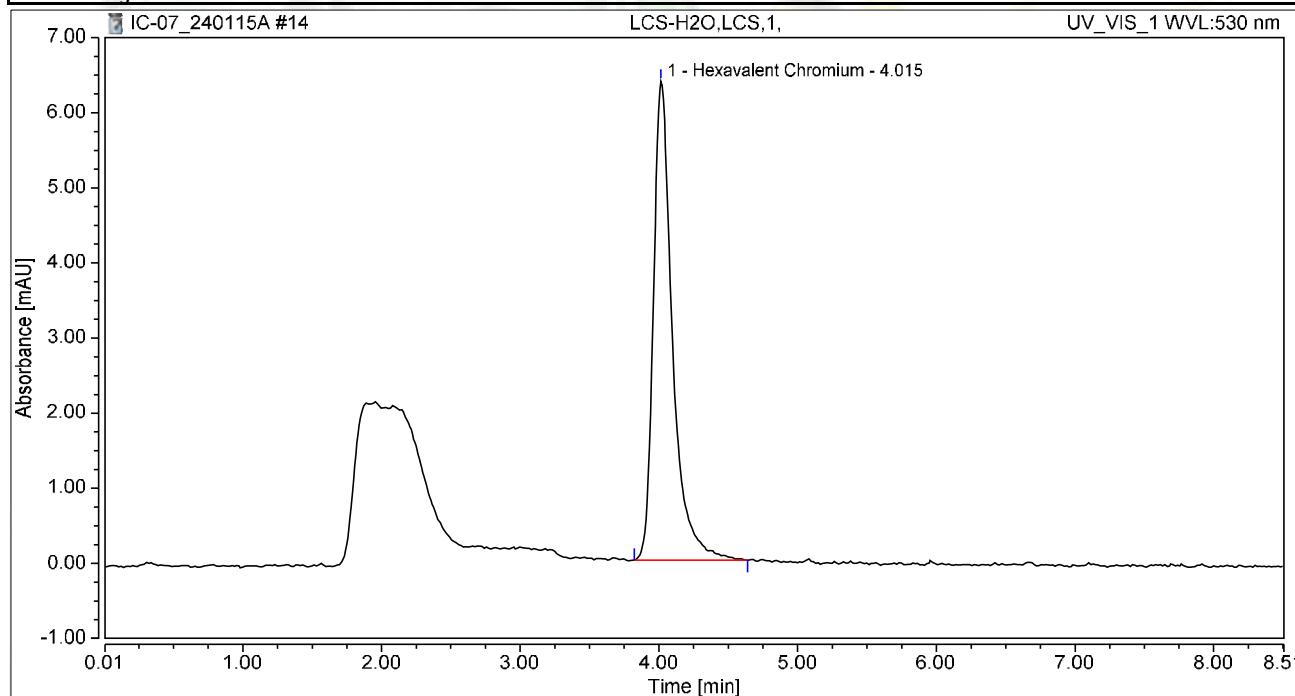
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 12:49	Sample Weight:	1.0000

Chromatogram



Integration Results

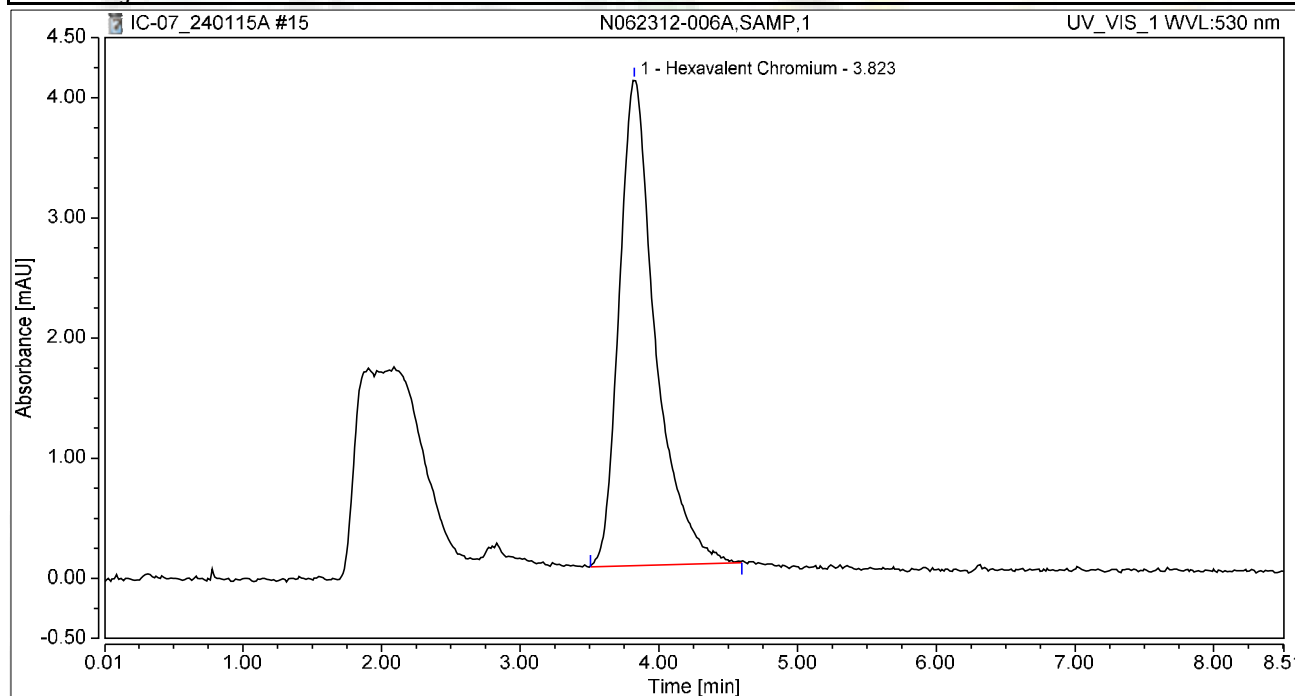
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.016	6.375	100.00	100.00	4.8833
Total:			1.016	6.375	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 12:59	Sample Weight:	1.0000

Chromatogram



Integration Results

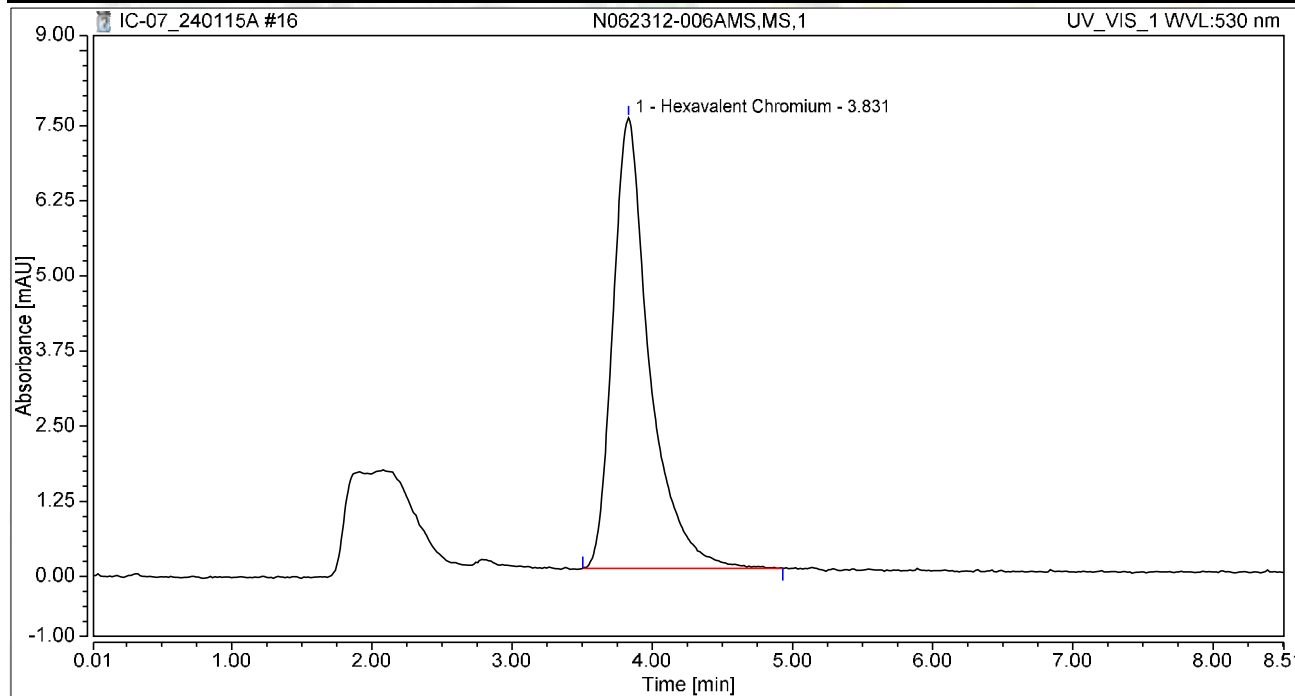
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	1.225	4.046	100.00	100.00	5.8865
Total:			1.225	4.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 13:54	Sample Weight:	1.0000

Chromatogram



Integration Results

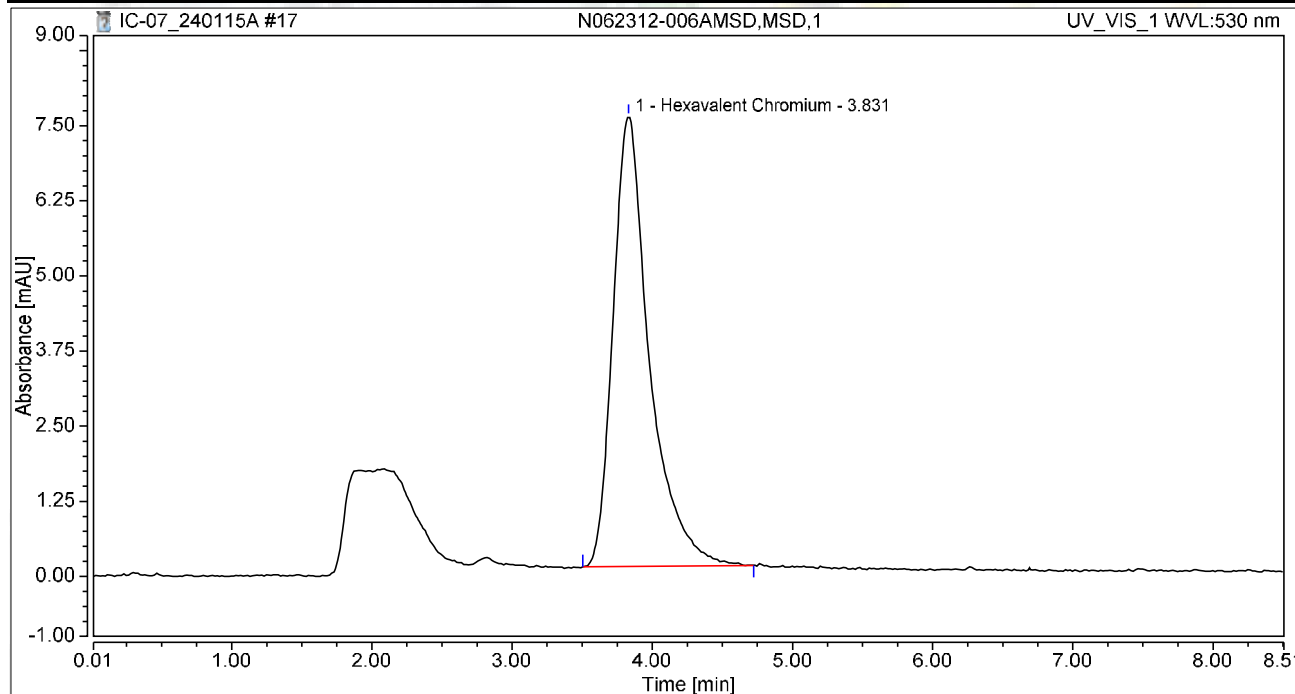
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	2.276	7.499	100.00	100.00	10.9359
Total:			2.276	7.499	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:03	Sample Weight:	1.0000

Chromatogram



Integration Results

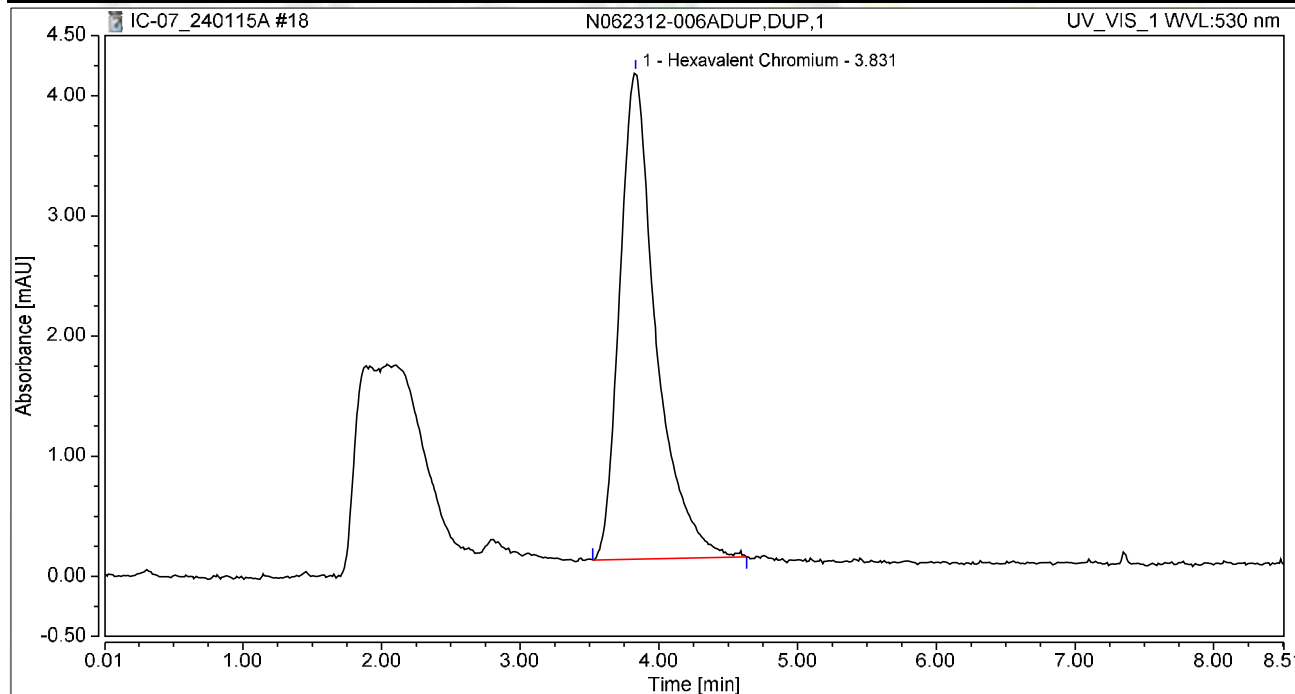
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	2.250	7.488	100.00	100.00	10.8142
Total:			2.250	7.488	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:13	Sample Weight:	1.0000

Chromatogram



Integration Results

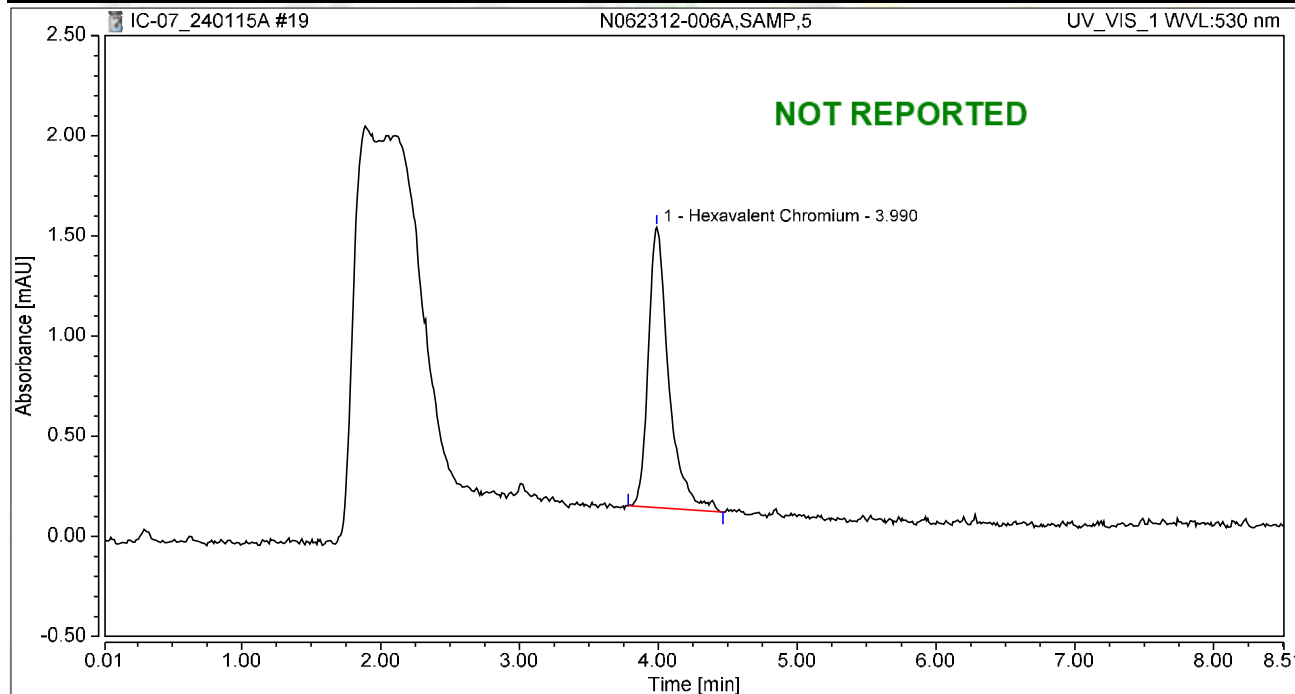
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	1.225	4.056	100.00	100.00	5.8857
Total:			1.225	4.056	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:22	Sample Weight:	1.0000

Chromatogram



Integration Results

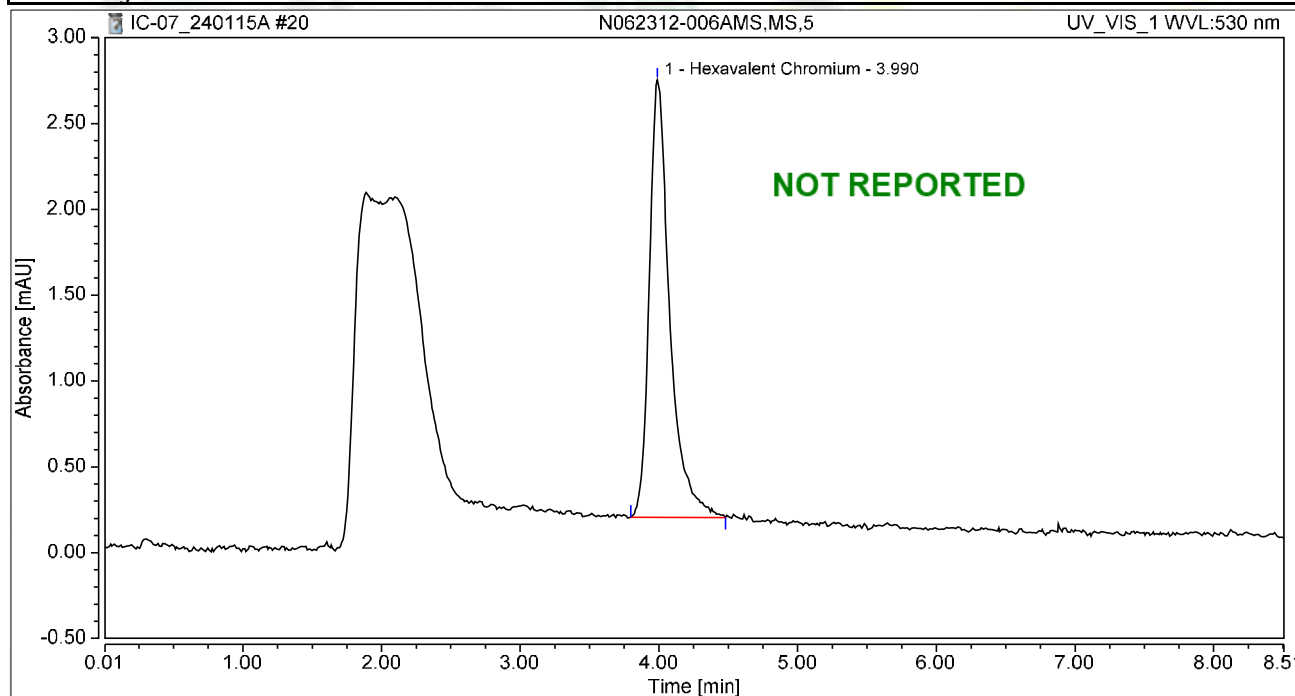
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.240	1.402	100.00	100.00	1.1548
Total:			0.240	1.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:32	Sample Weight:	1.0000

Chromatogram



Integration Results

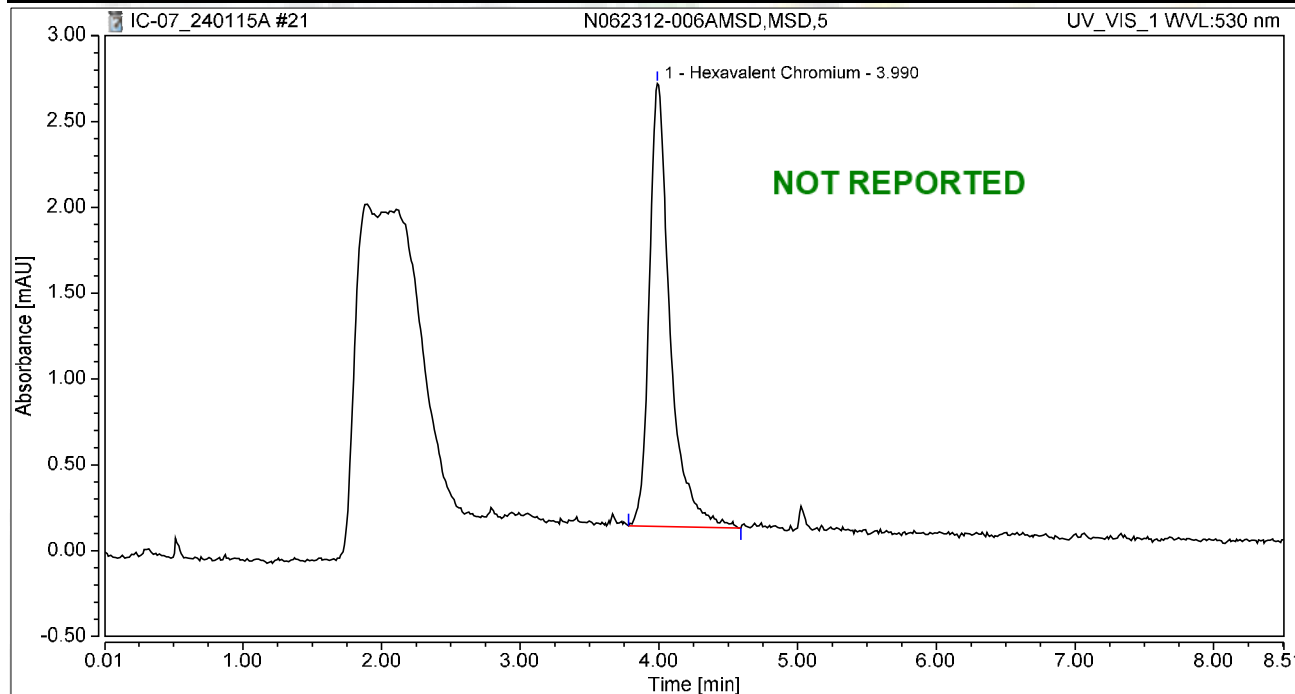
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.435	2.548	100.00	100.00	2.0896
Total:			0.435	2.548	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:41	Sample Weight:	1.0000

Chromatogram



Integration Results

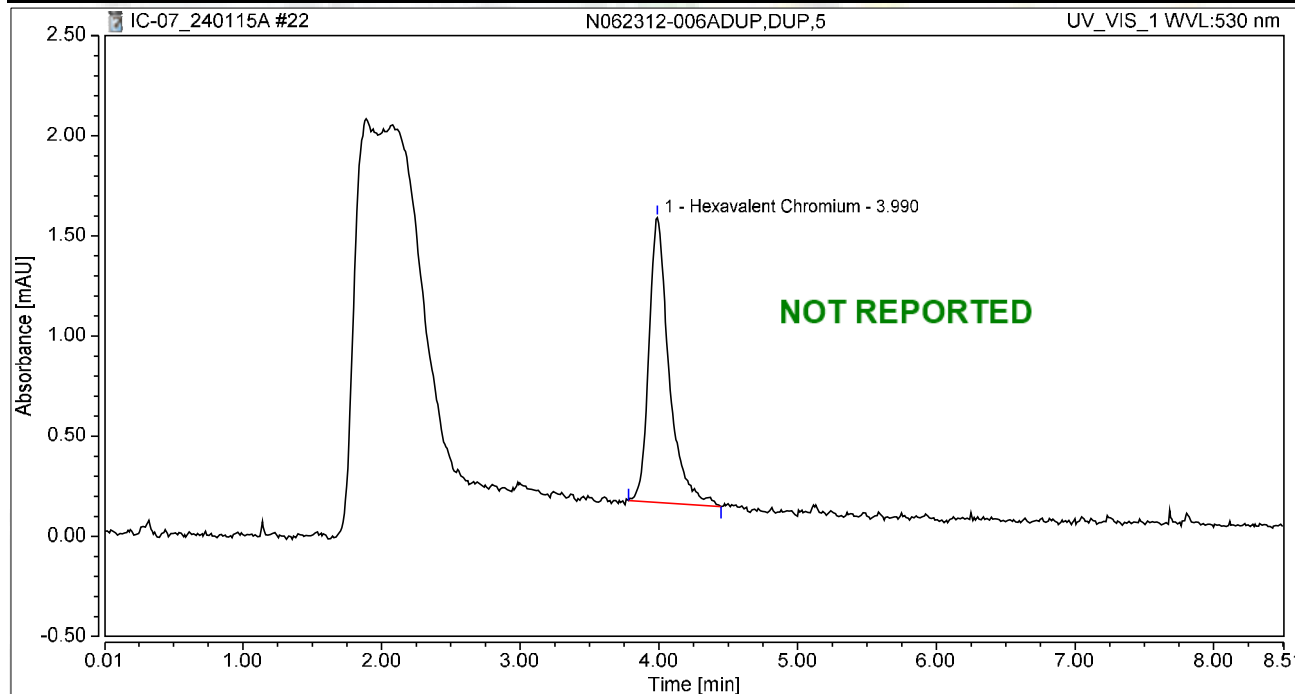
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.447	2.578	100.00	100.00	2.1473
Total:			0.447	2.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-006ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 14:50	Sample Weight:	1.0000

Chromatogram



Integration Results

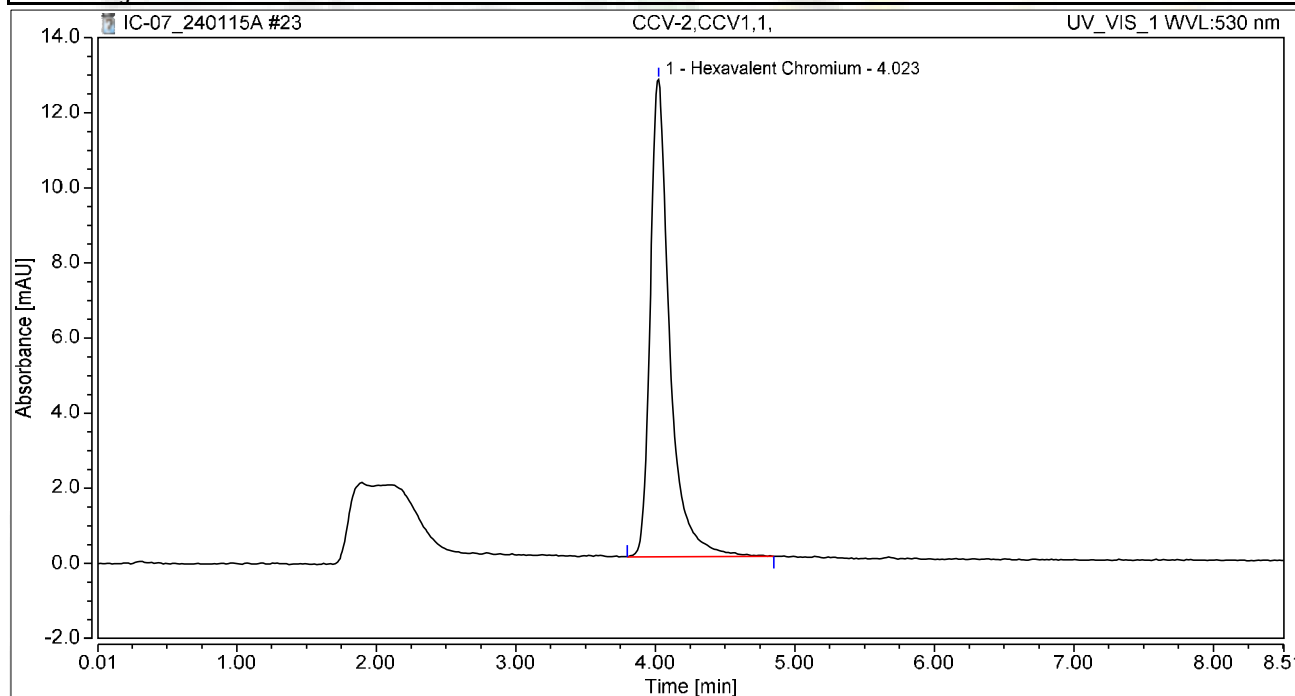
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.239	1.422	100.00	100.00	1.1500
Total:			0.239	1.422	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:00	Sample Weight:	1.0000

Chromatogram



Integration Results

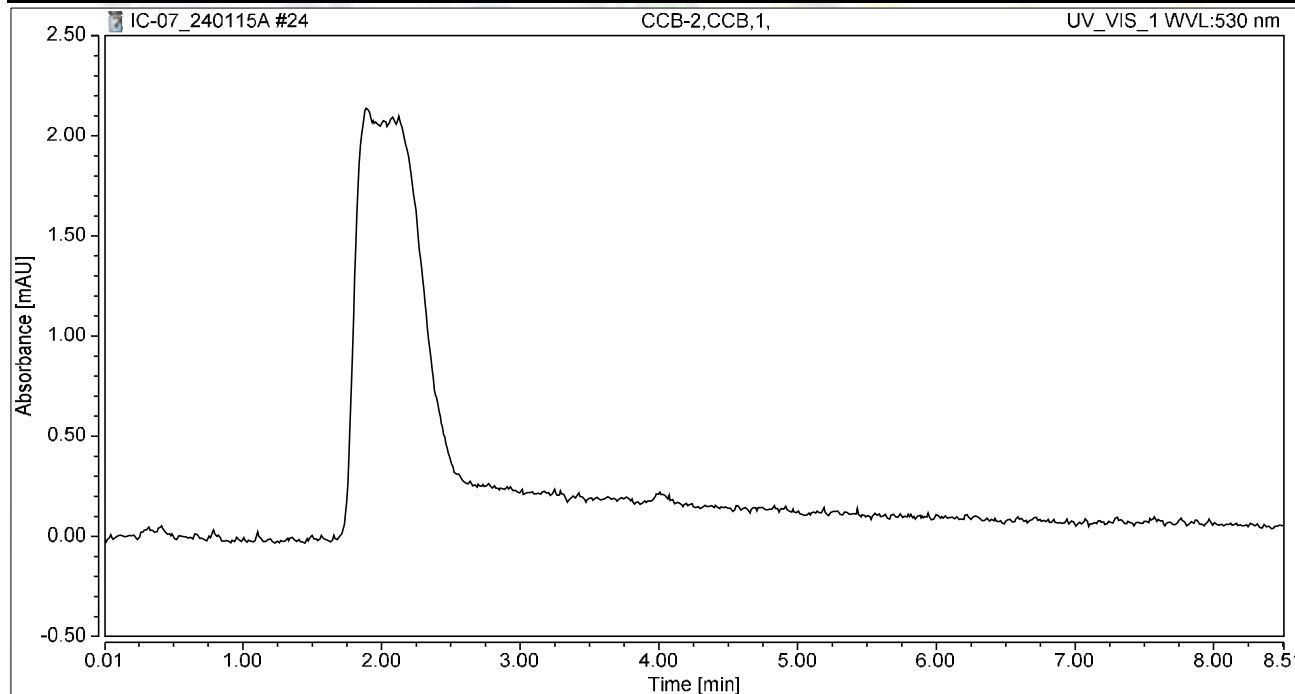
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.054	12.711	100.00	100.00	9.8727
Total:			2.054	12.711	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:09	Sample Weight:	1.0000

Chromatogram



Integration Results

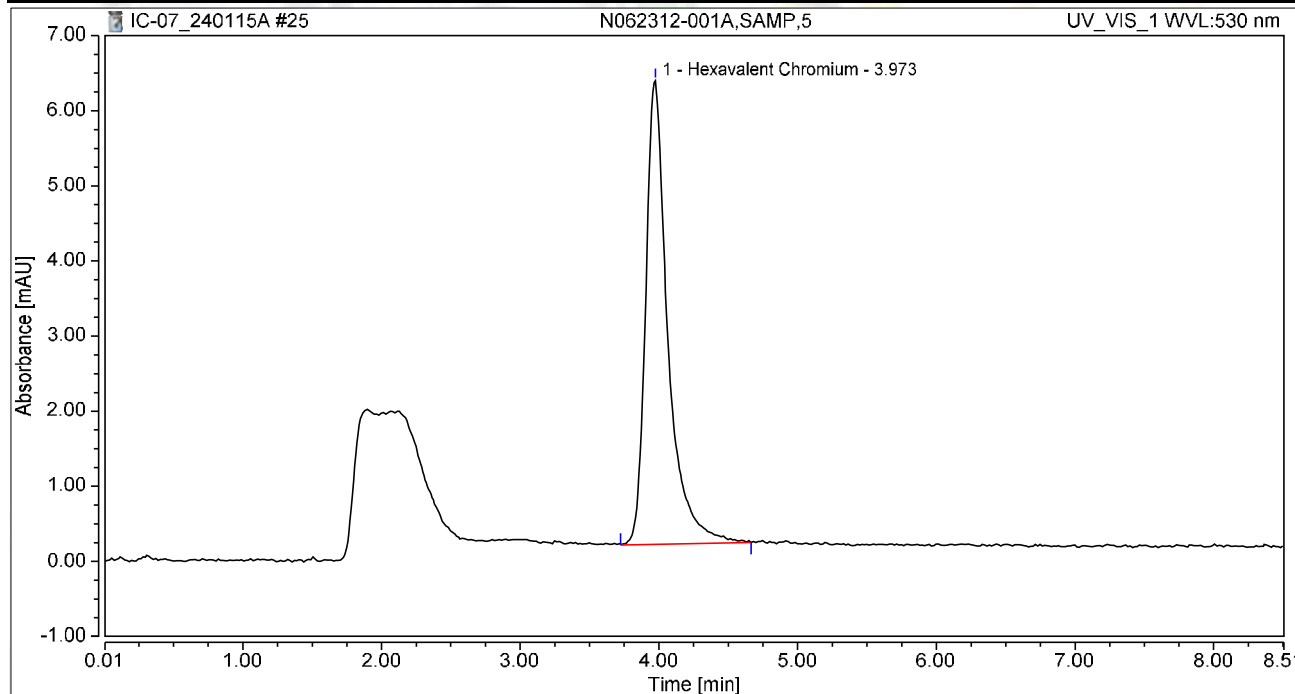
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:22	Sample Weight:	1.0000

Chromatogram



Integration Results

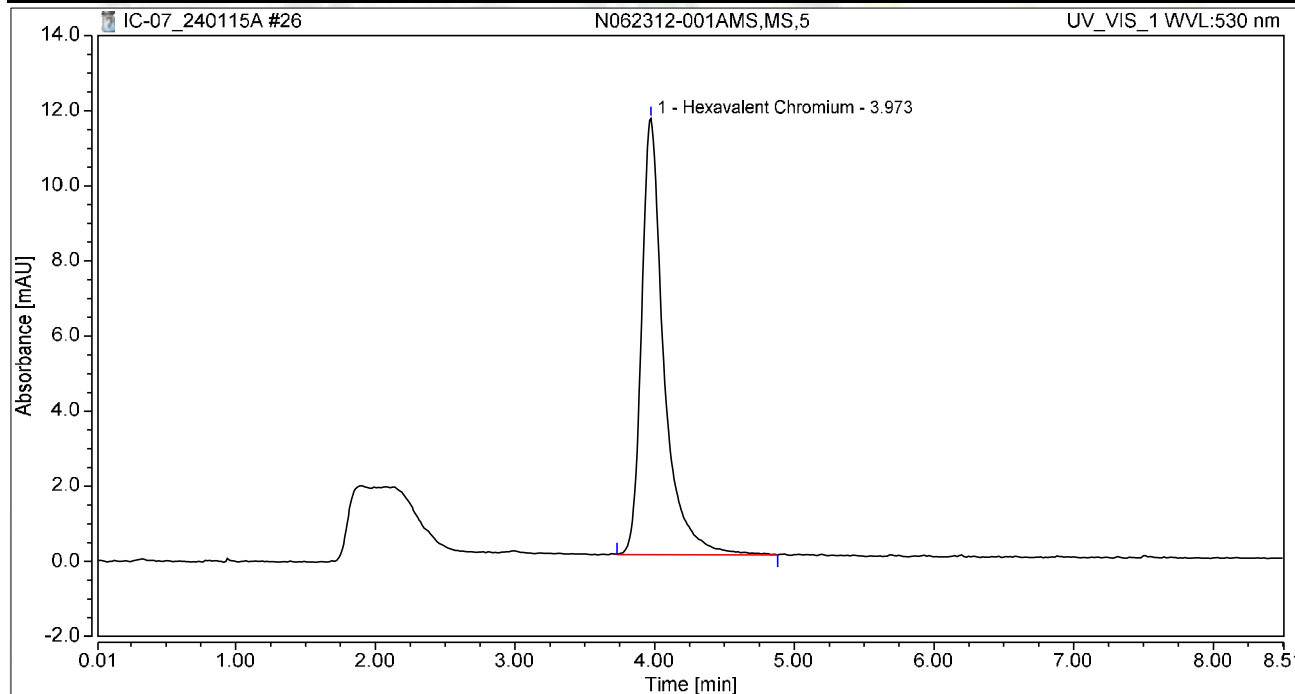
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	1.142	6.174	100.00	100.00	5.4874
Total:			1.142	6.174	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:33	Sample Weight:	1.0000

Chromatogram



Integration Results

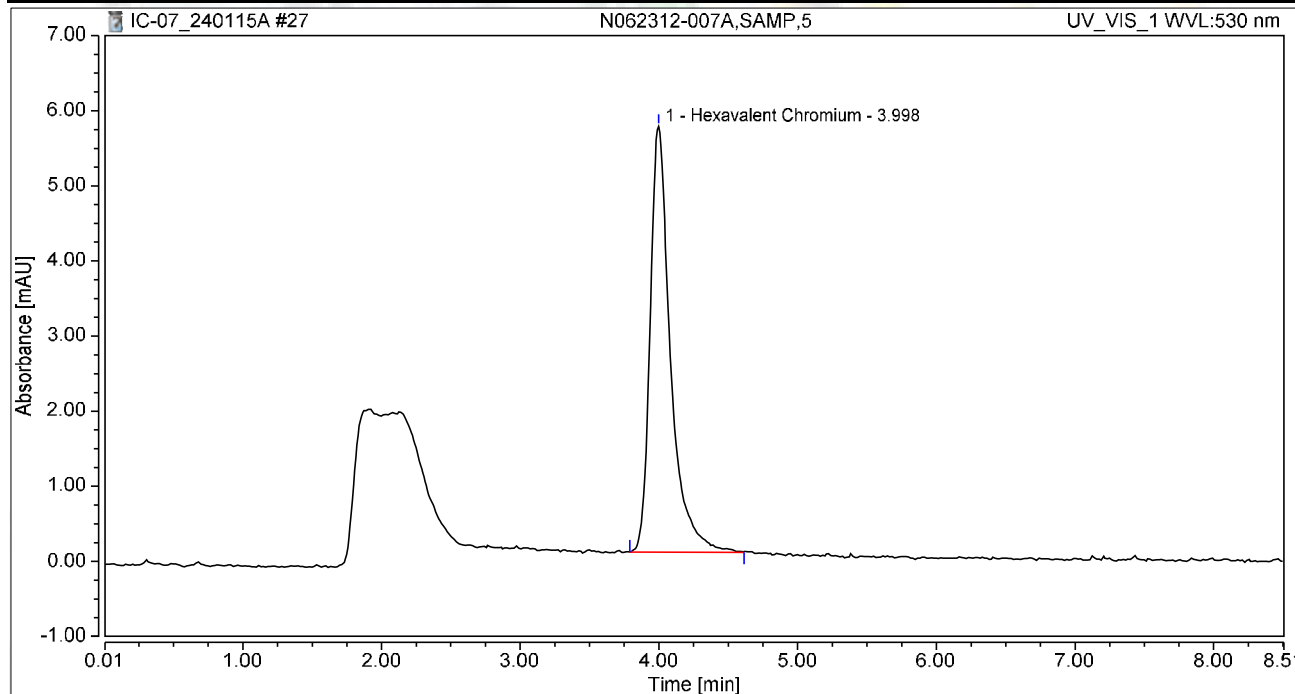
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	2.150	11.613	100.00	100.00	10.3347
Total:			2.150	11.613	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-007A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:43	Sample Weight:	1.0000

Chromatogram



Integration Results

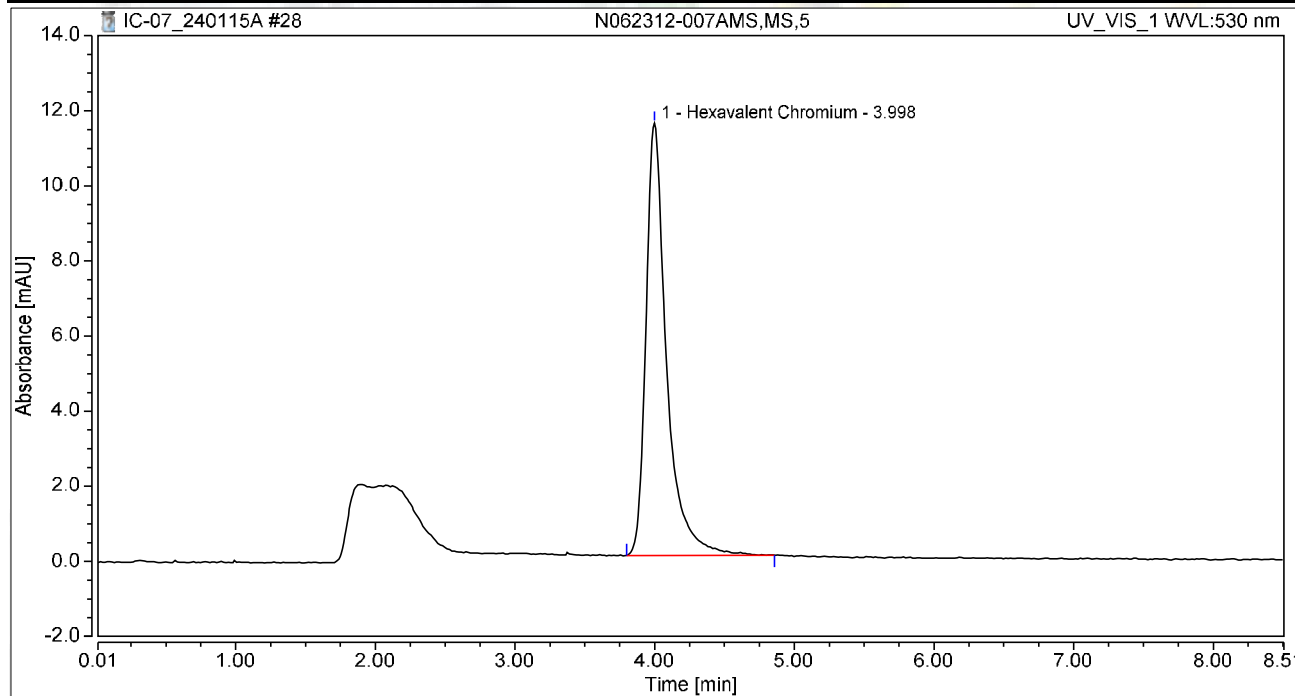
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.963	5.670	100.00	100.00	4.6271
Total:			0.963	5.670	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-007AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 15:52	Sample Weight:	1.0000

Chromatogram



Integration Results

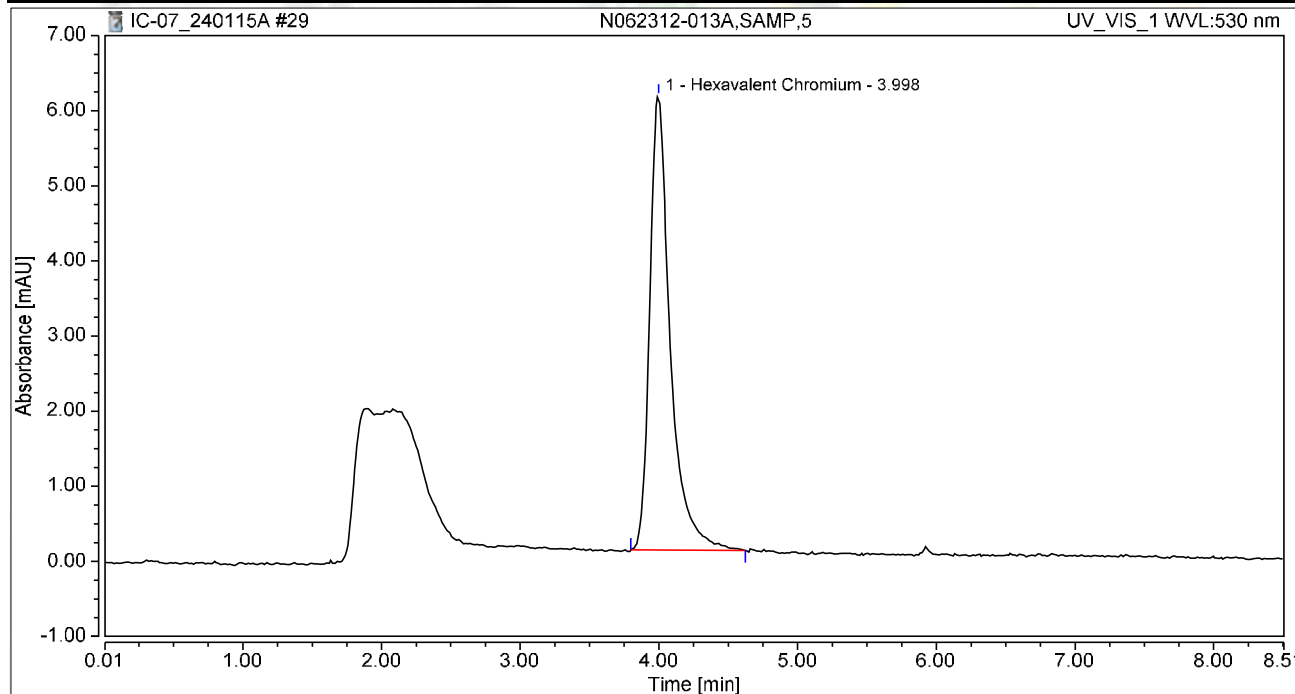
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.973	11.507	100.00	100.00	9.4835
Total:			1.973	11.507	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-013A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:02	Sample Weight:	1.0000

Chromatogram



Integration Results

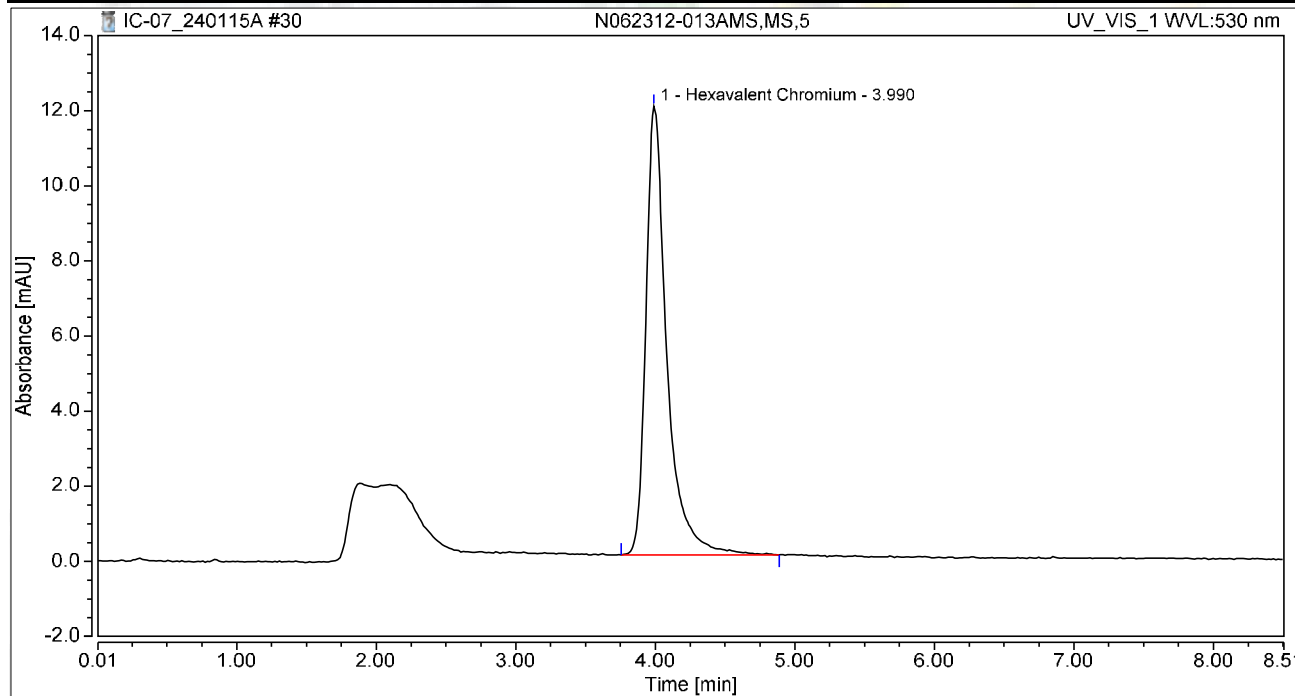
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.037	6.046	100.00	100.00	4.9860
Total:			1.037	6.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-013AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:11	Sample Weight:	1.0000

Chromatogram



Integration Results

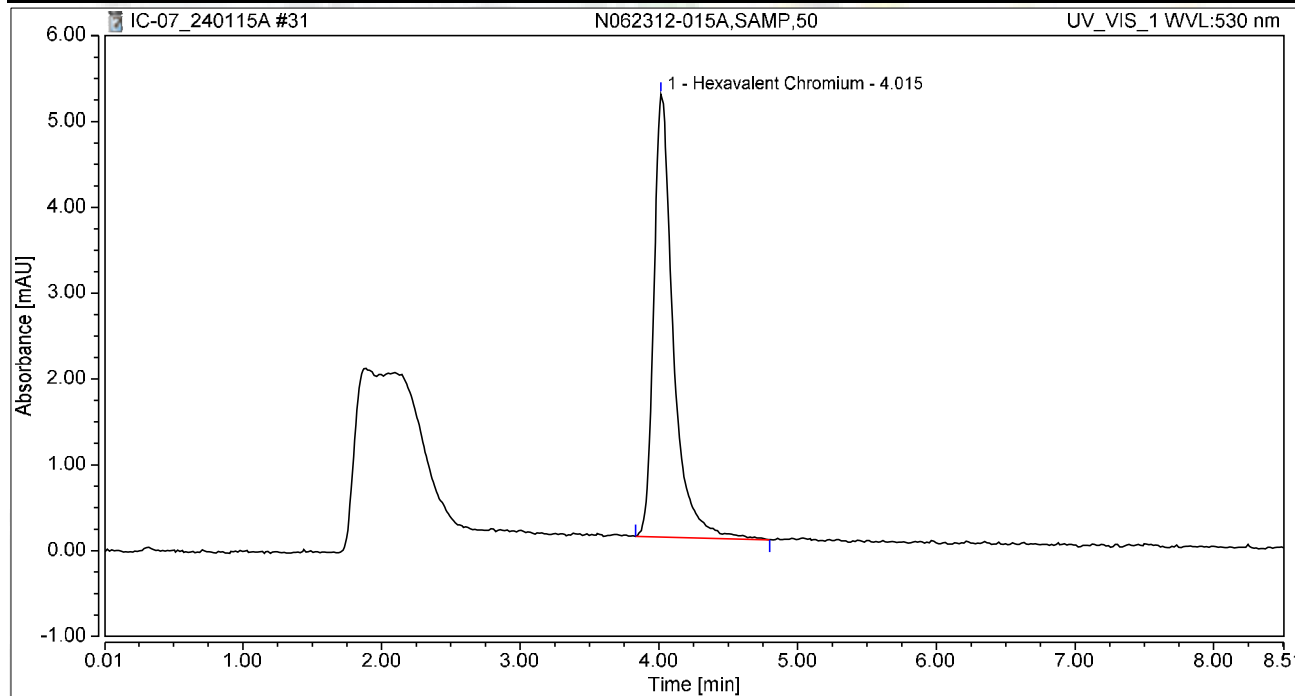
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	2.078	11.949	100.00	100.00	9.9856
Total:			2.078	11.949	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015A,SAMP,50	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:21	Sample Weight:	1.0000

Chromatogram



Integration Results

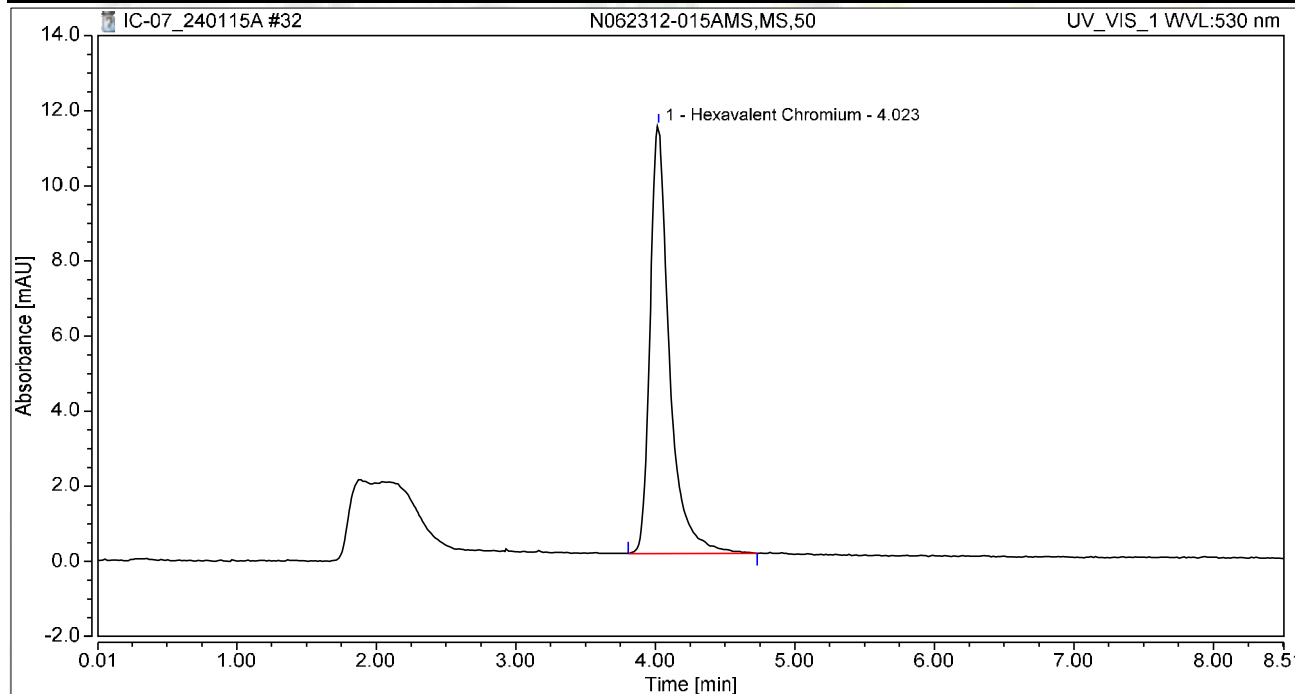
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.839	5.159	100.00	100.00	4.0329
Total:			0.839	5.159	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015AMS,MS,50	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:30	Sample Weight:	1.0000

Chromatogram



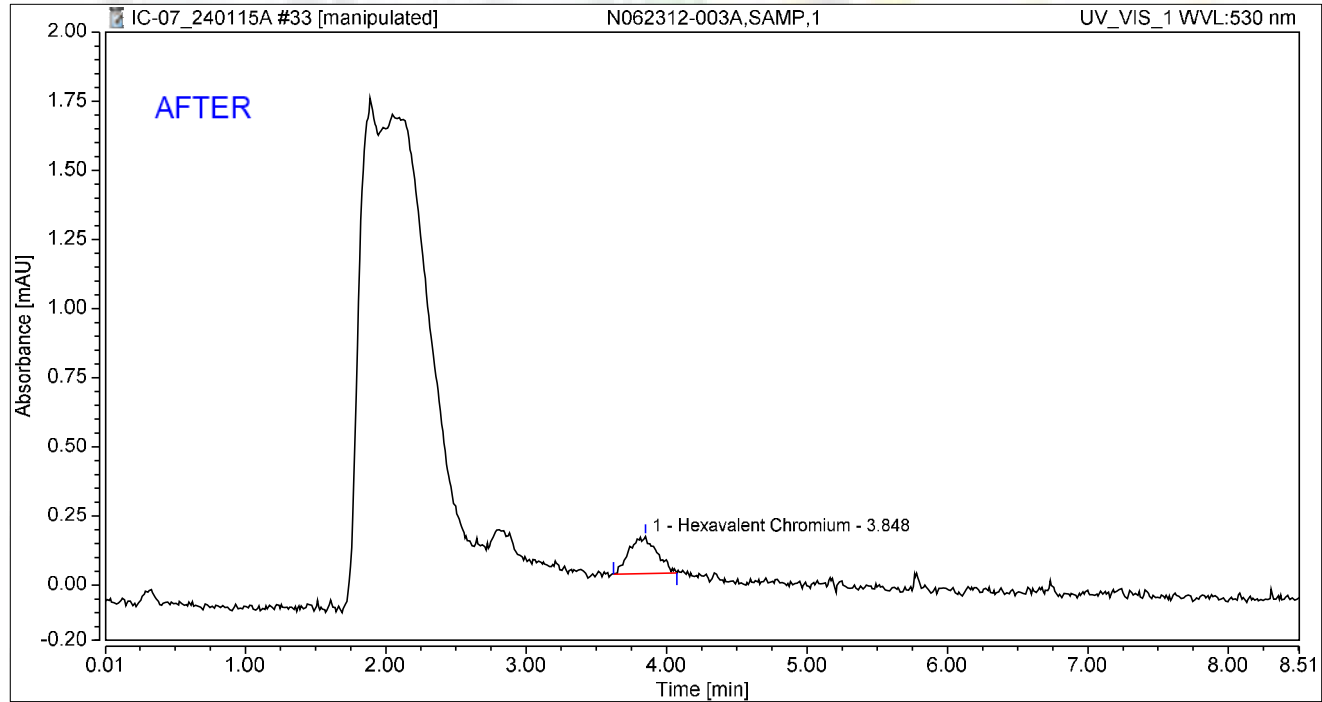
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.842	11.391	100.00	100.00	8.8521
Total:			1.842	11.391	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062312-003A,SAMP,1	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	15/Jan/24 16:40	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.031	0.135	100.00	100.00	0.1473
Total:			0.031	0.135	100.00	100.00	

Reviewed by:

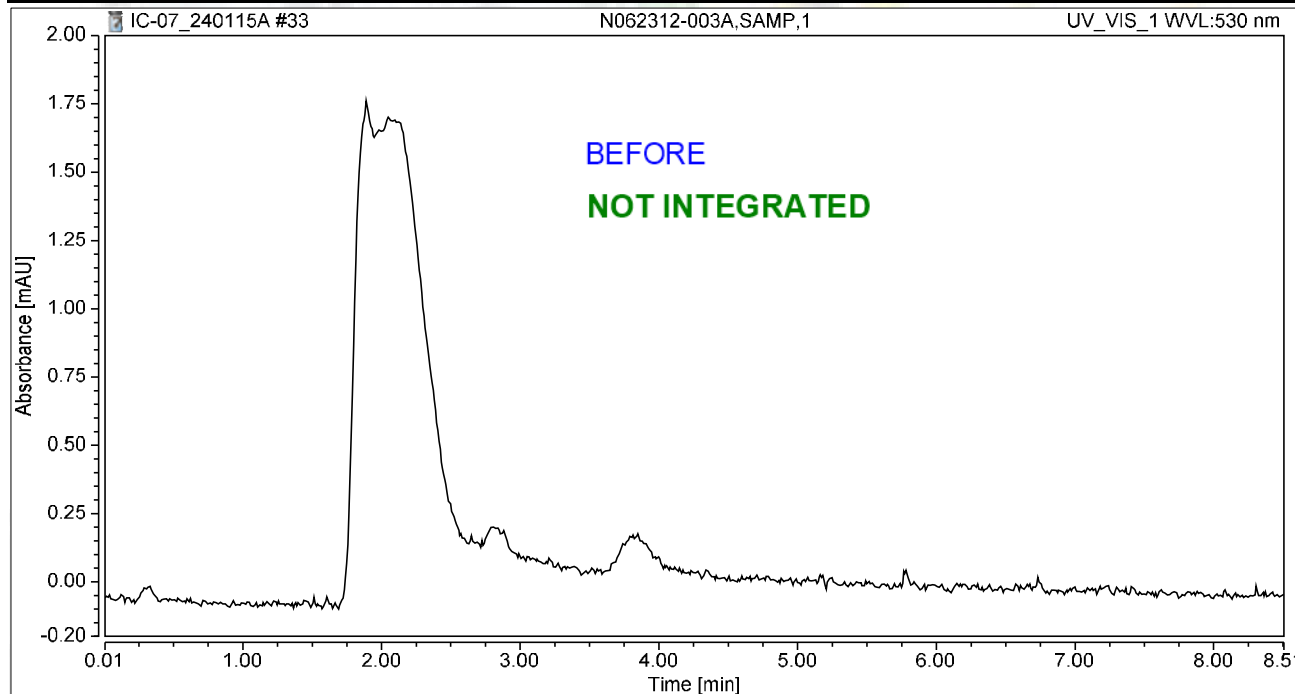
JRB 1/25/2024

Chromatogram and Results

Injection Details

Injection Name:	N062312-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:40	Sample Weight:	1.0000

Chromatogram



Integration Results

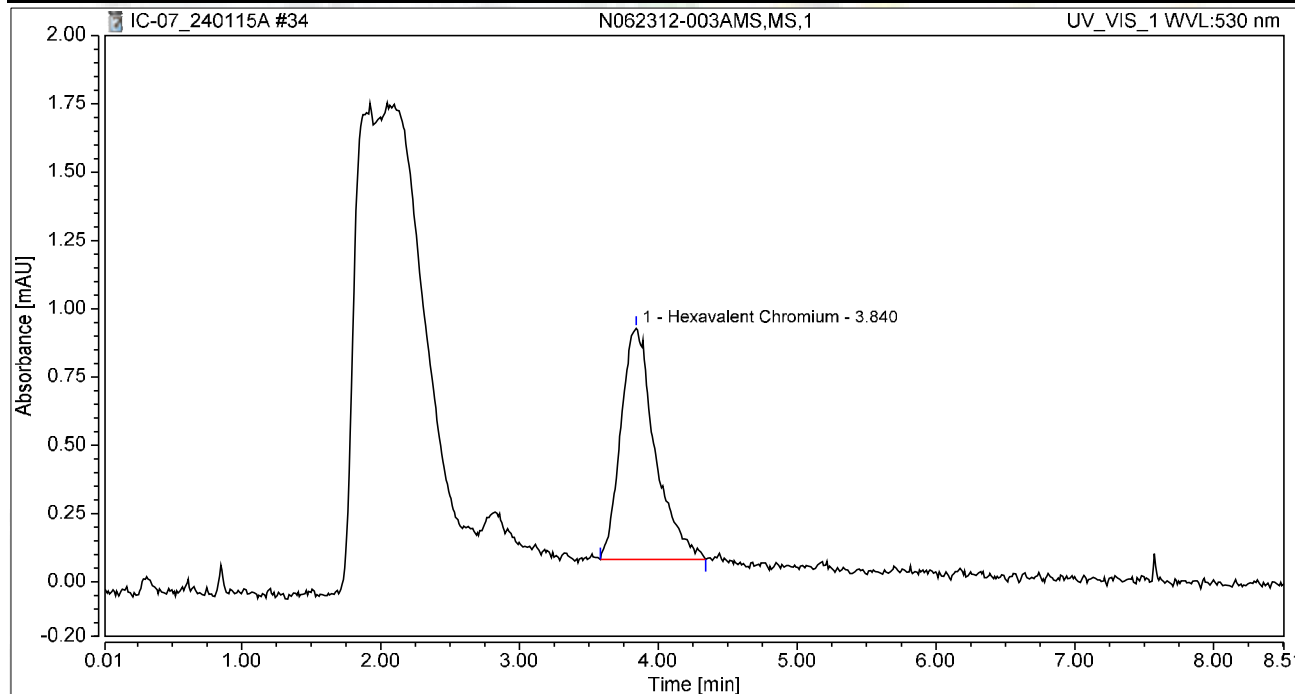
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:49	Sample Weight:	1.0000

Chromatogram



Integration Results

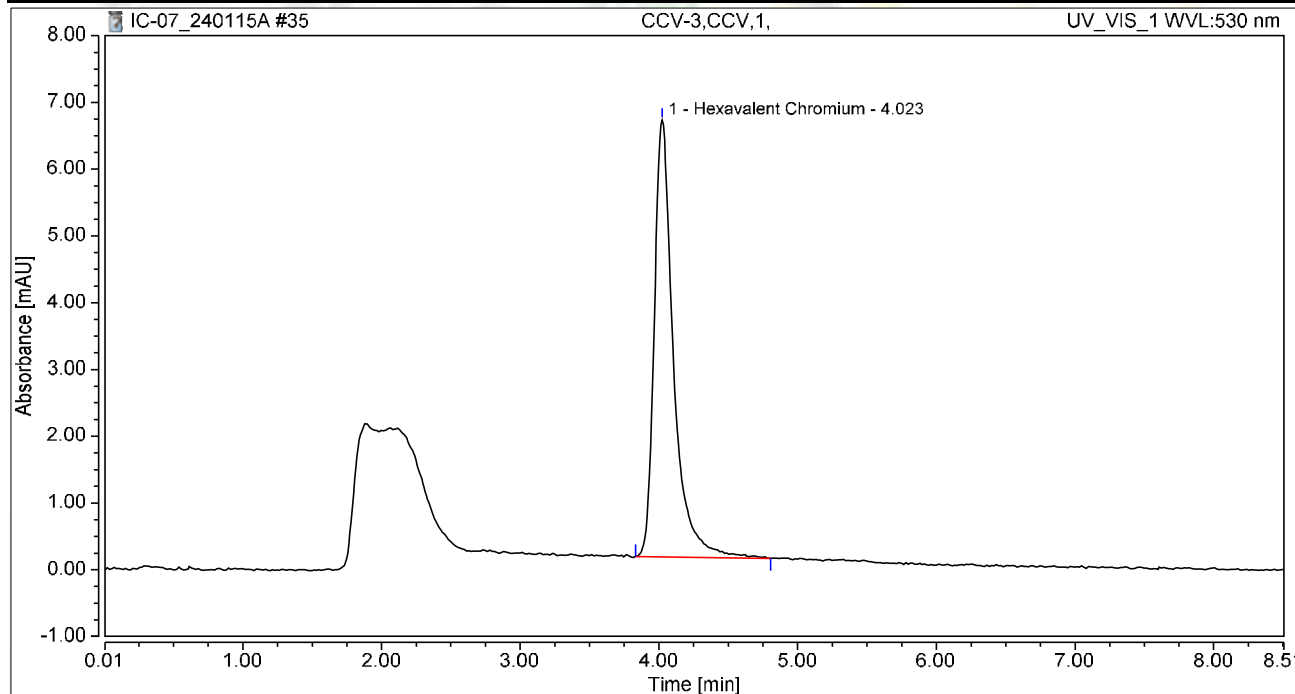
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.242	0.847	100.00	100.00	1.1638
Total:			0.242	0.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 16:59	Sample Weight:	1.0000

Chromatogram



Integration Results

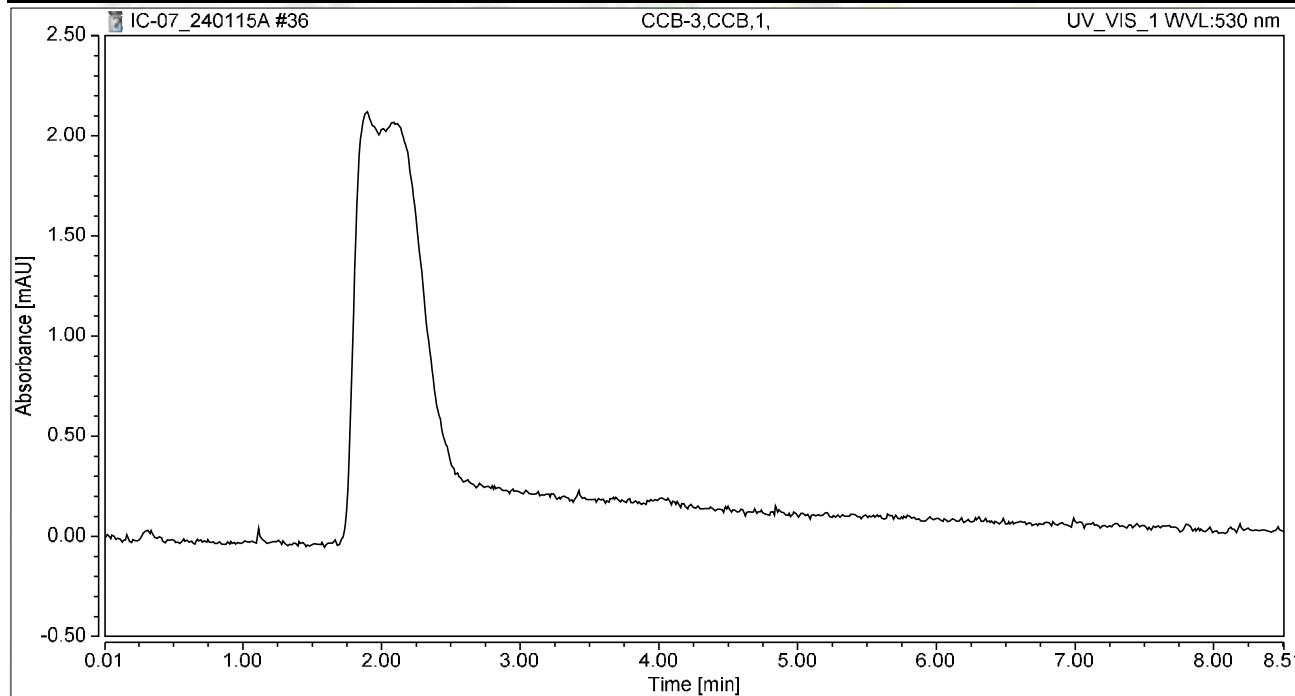
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.055	6.546	100.00	100.00	5.0712
Total:			1.055	6.546	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:08	Sample Weight:	1.0000

Chromatogram



Integration Results

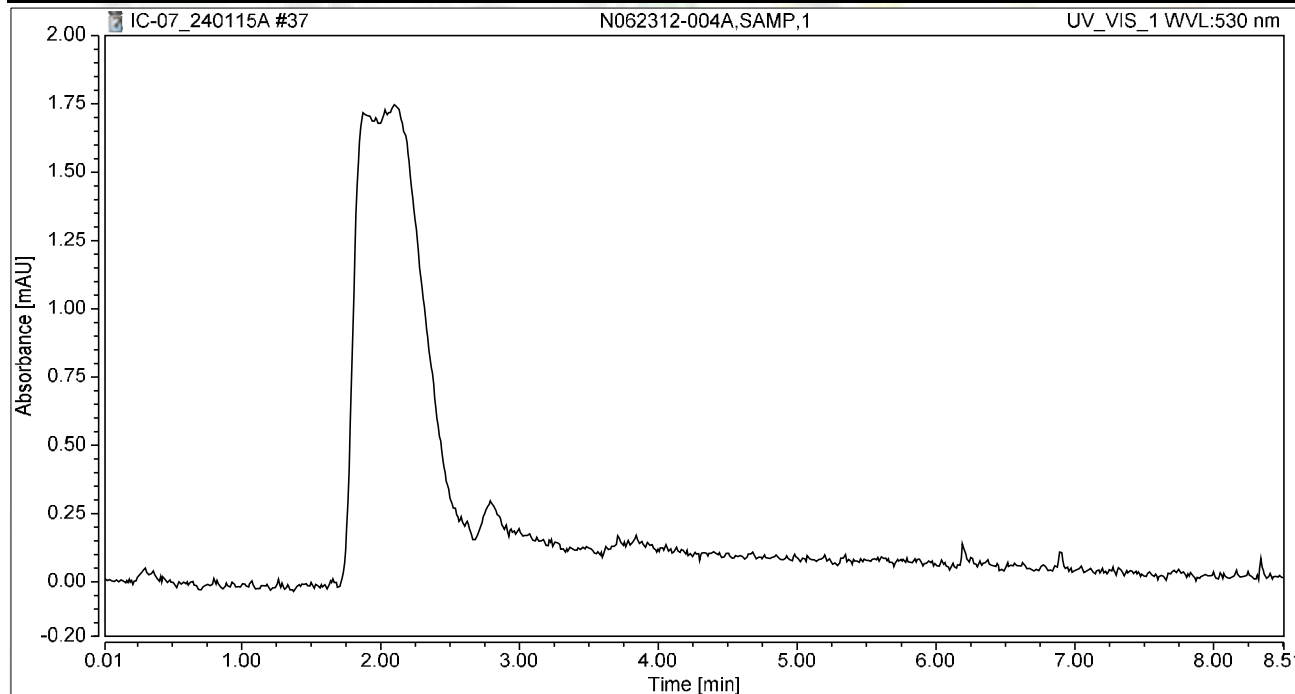
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:18	Sample Weight:	1.0000

Chromatogram



Integration Results

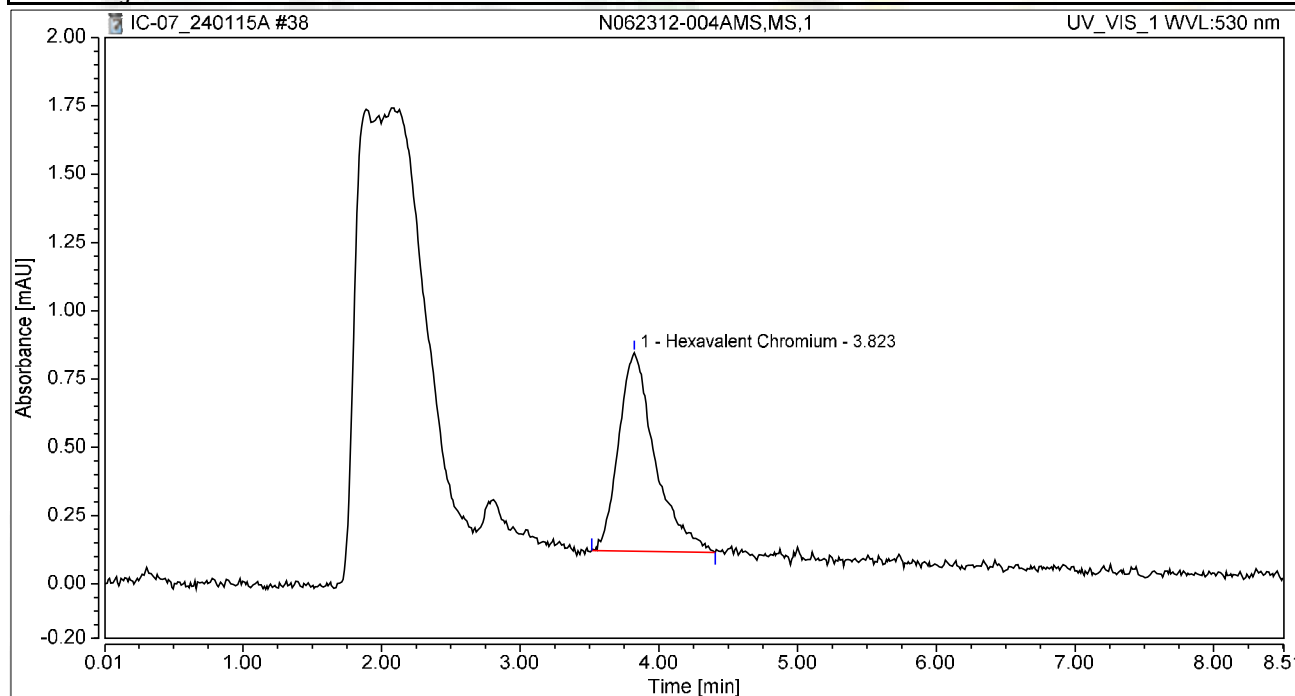
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:27	Sample Weight:	1.0000

Chromatogram



Integration Results

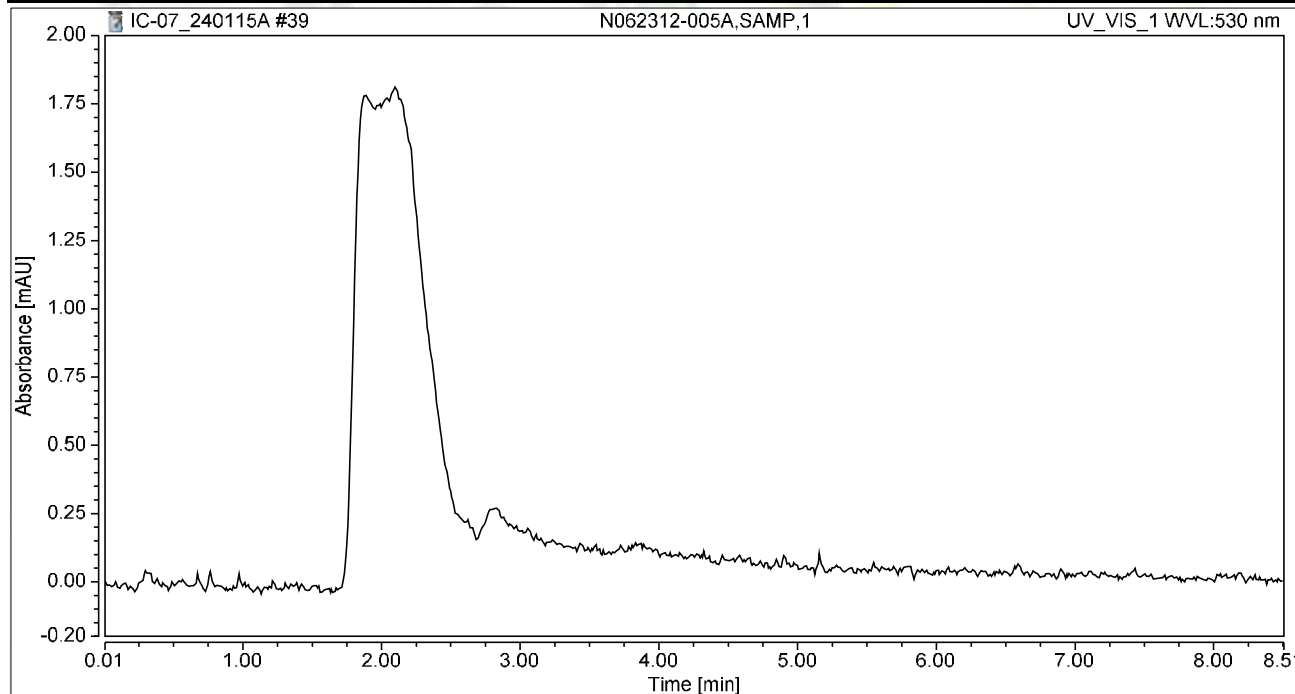
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.221	0.727	100.00	100.00	1.0610
Total:			0.221	0.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:37	Sample Weight:	1.0000

Chromatogram



Integration Results

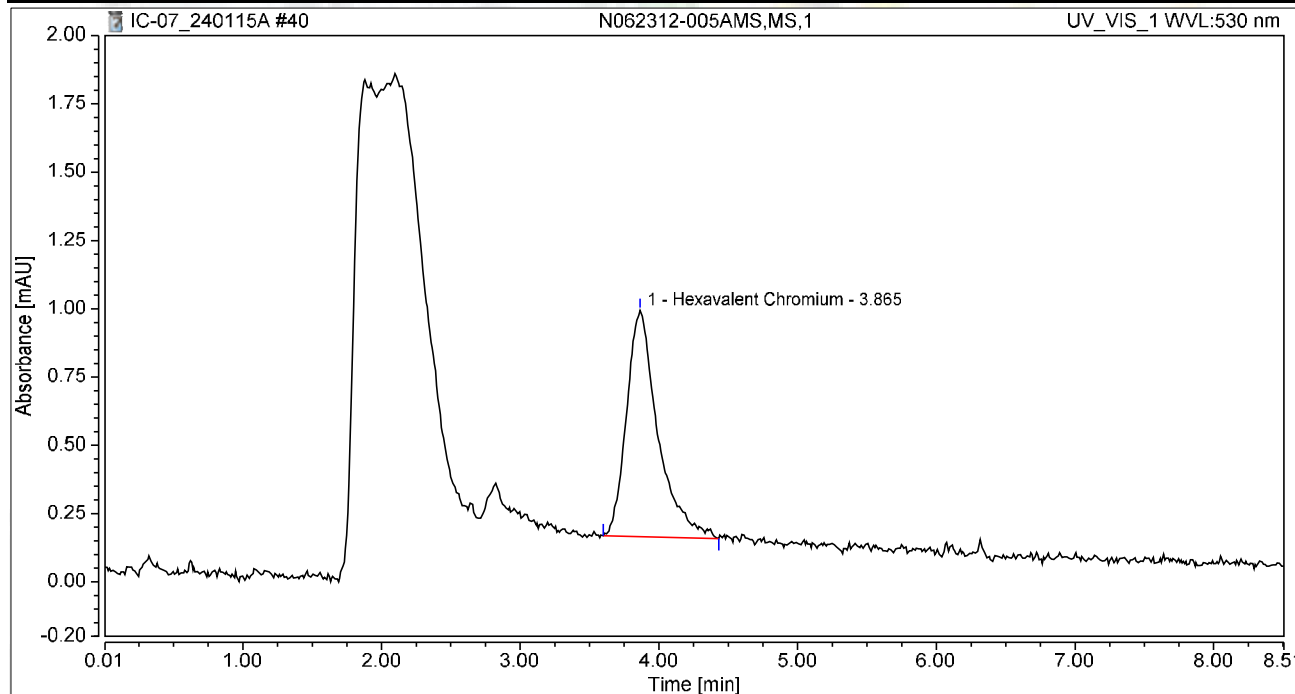
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:46	Sample Weight:	1.0000

Chromatogram



Integration Results

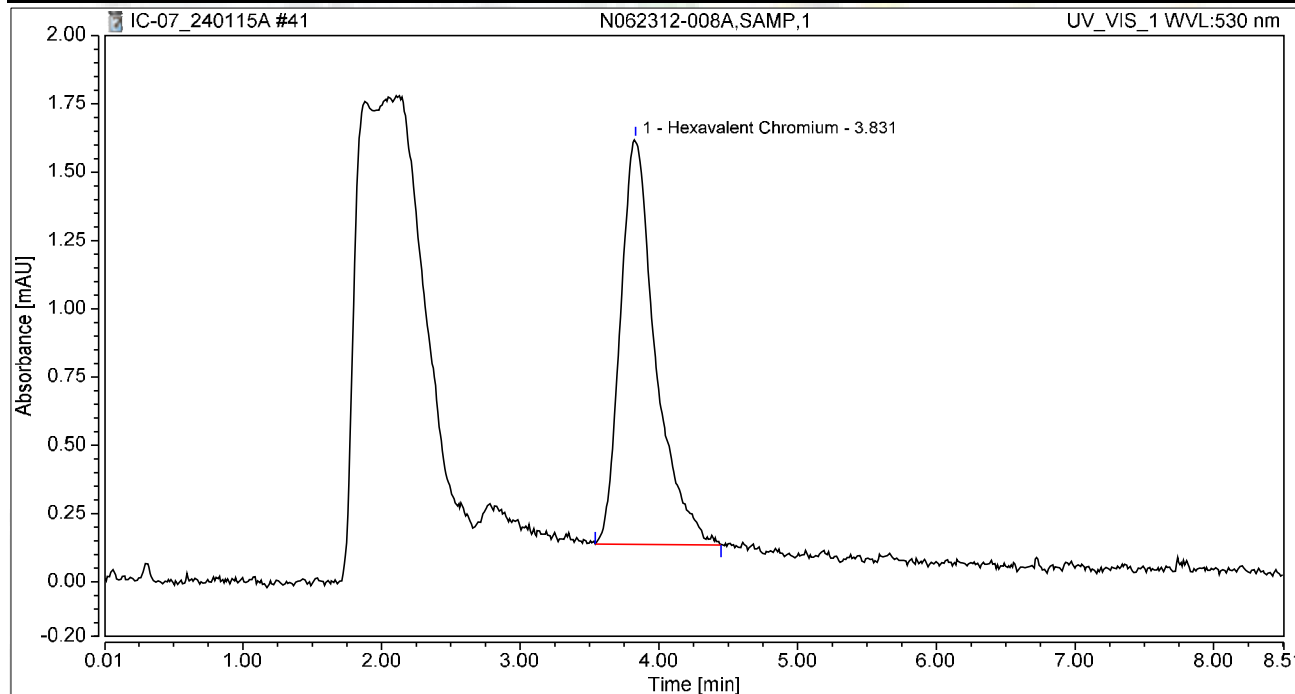
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.217	0.829	100.00	100.00	1.0424
Total:			0.217	0.829	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 17:55	Sample Weight:	1.0000

Chromatogram



Integration Results

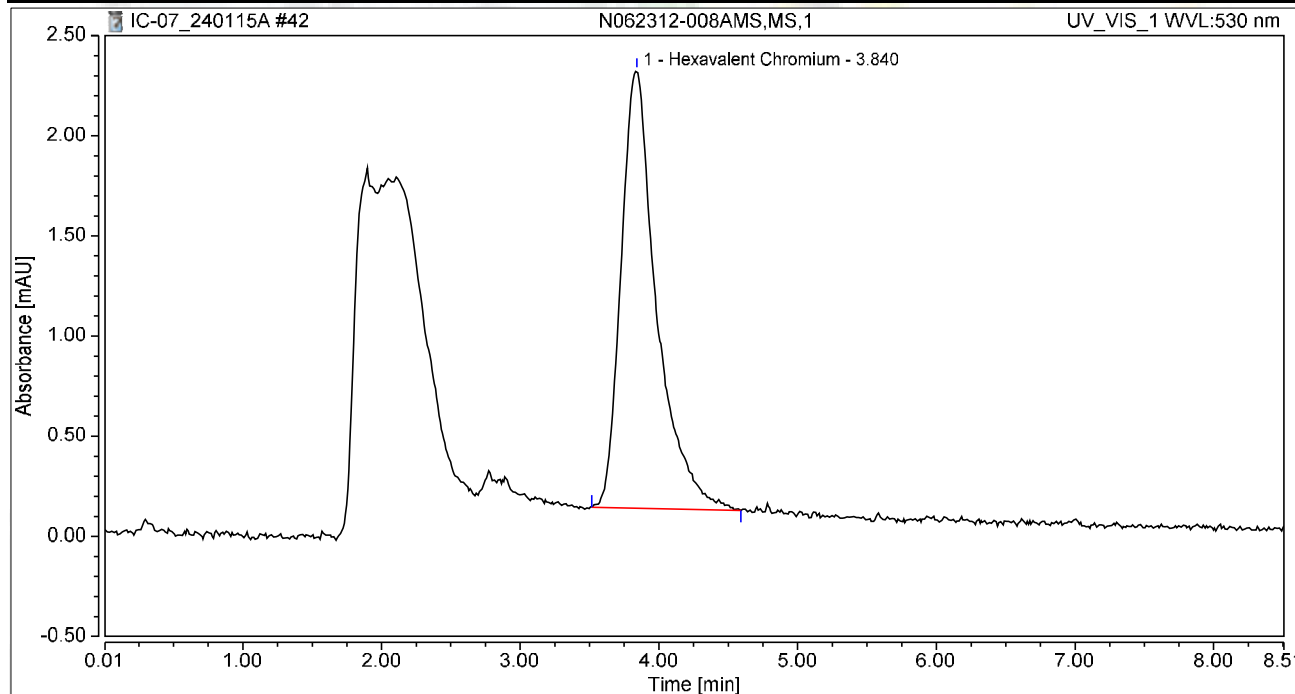
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.434	1.485	100.00	100.00	2.0869
Total:			0.434	1.485	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:05	Sample Weight:	1.0000

Chromatogram



Integration Results

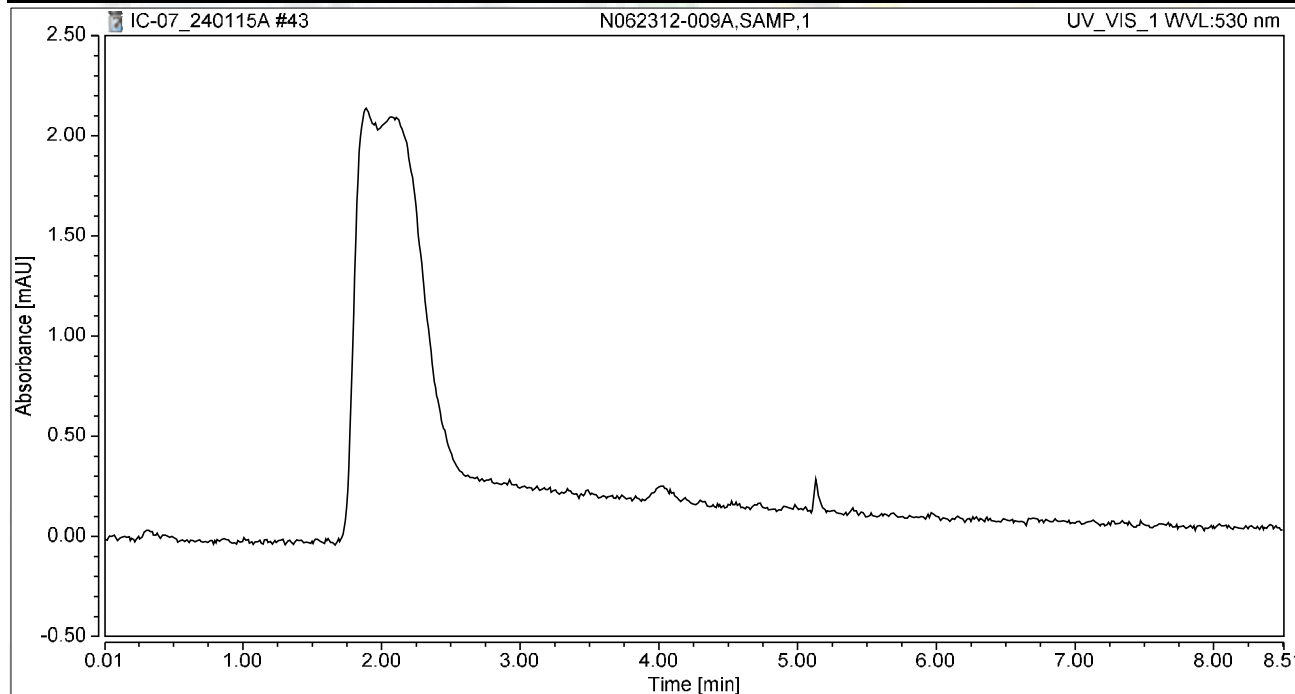
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.647	2.186	100.00	100.00	3.1084
Total:			0.647	2.186	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:14	Sample Weight:	1.0000

Chromatogram



Integration Results

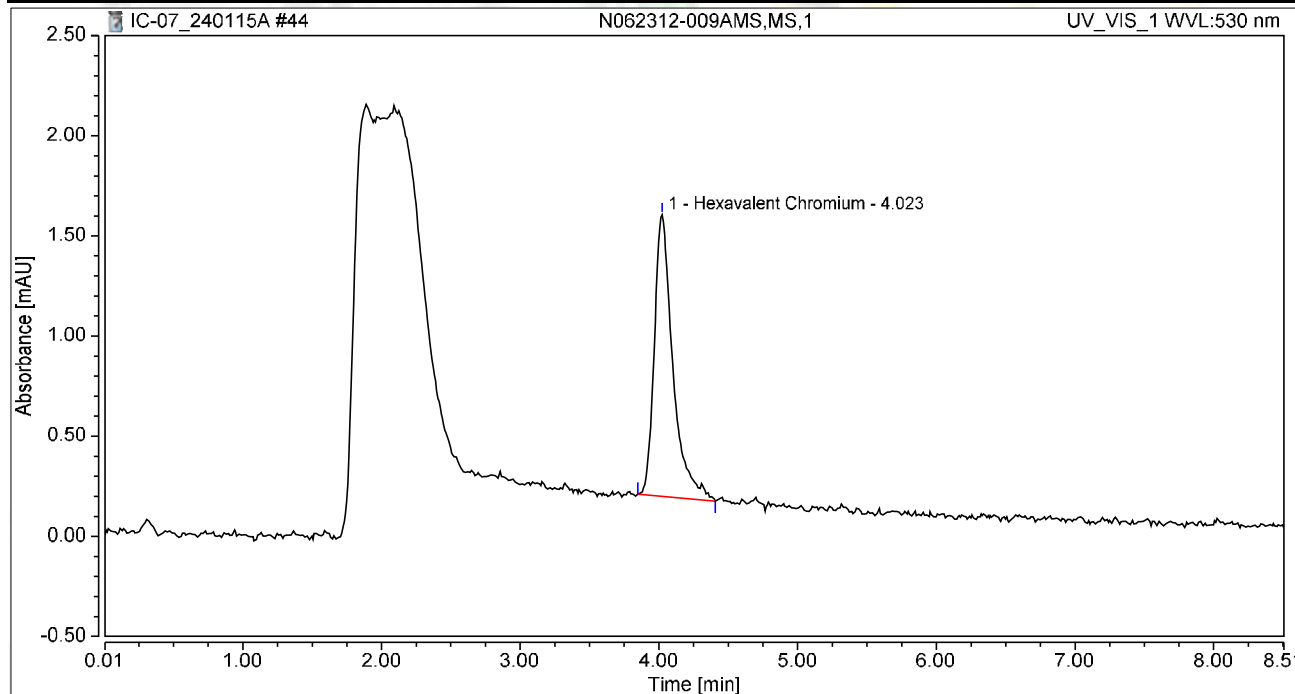
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:24	Sample Weight:	1.0000

Chromatogram



Integration Results

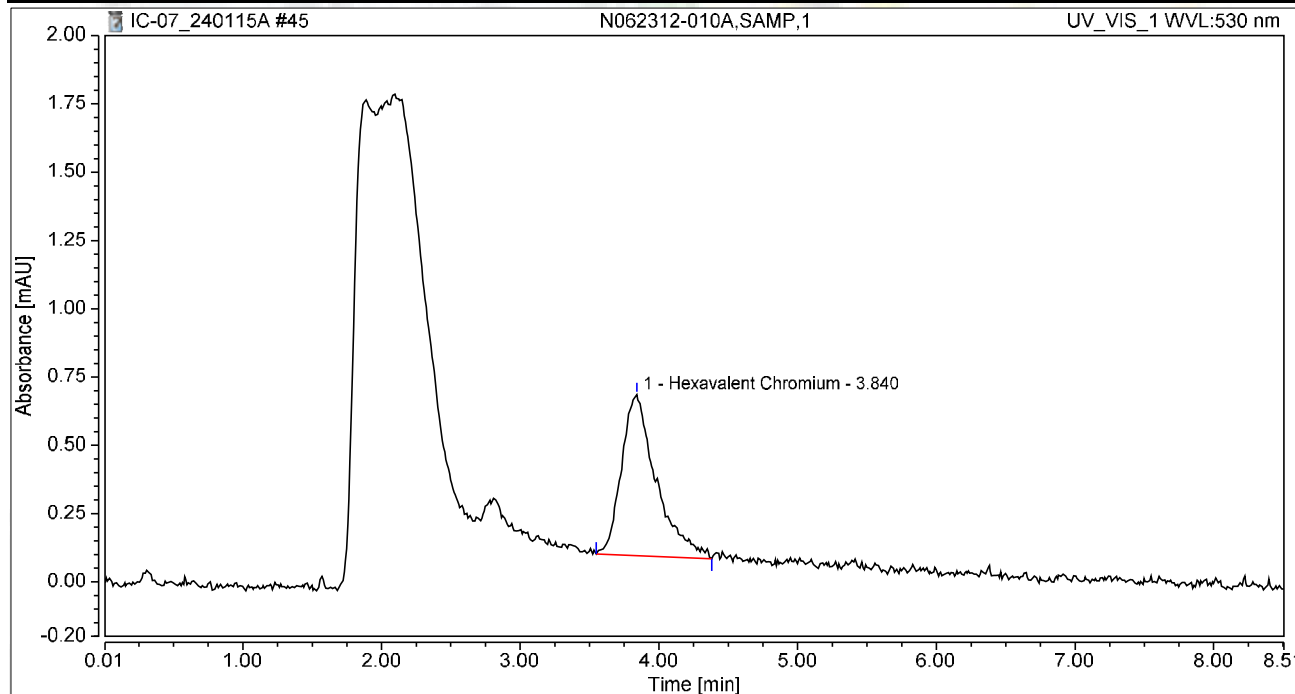
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.218	1.407	100.00	100.00	1.0458
Total:			0.218	1.407	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:33	Sample Weight:	1.0000

Chromatogram



Integration Results

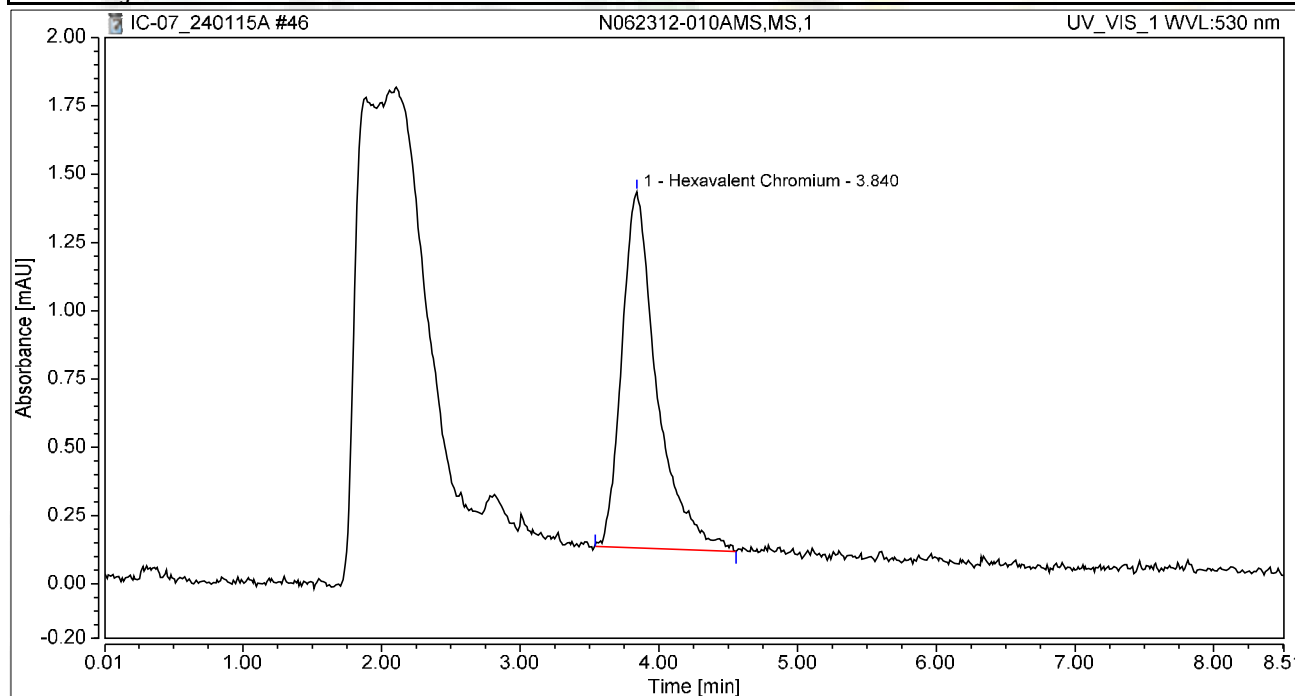
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.171	0.590	100.00	100.00	0.8214
Total:			0.171	0.590	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:43	Sample Weight:	1.0000

Chromatogram



Integration Results

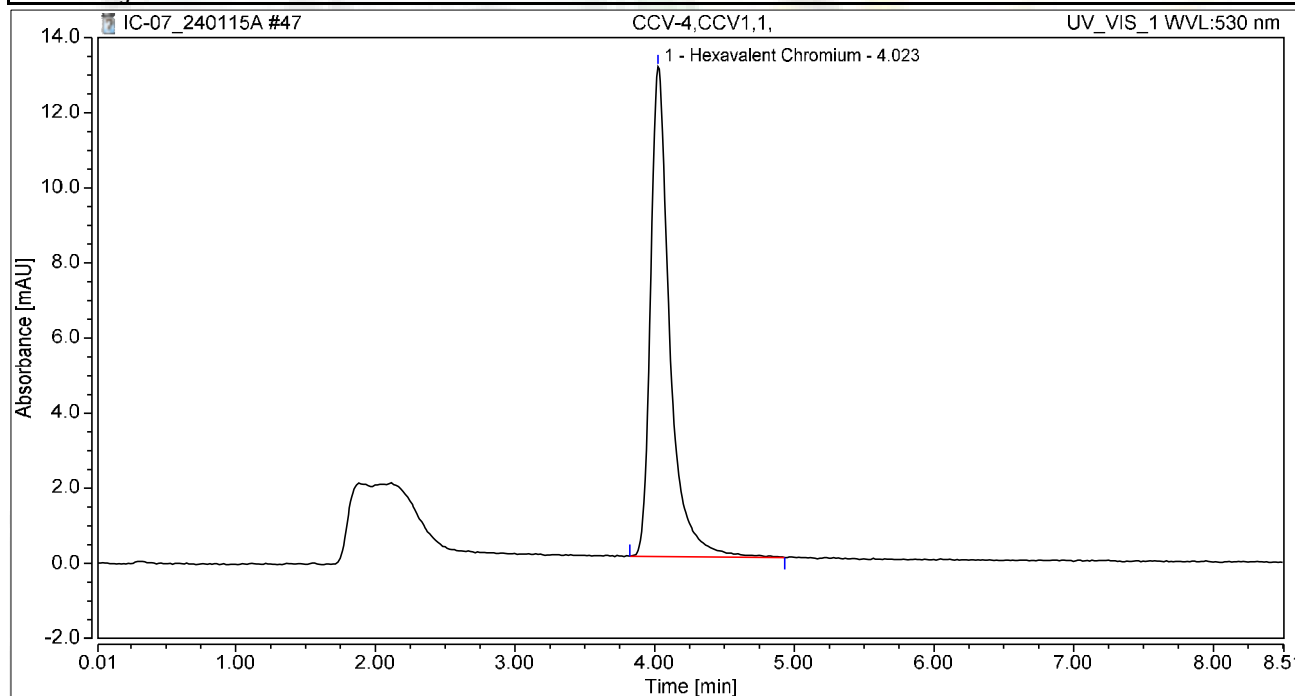
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.381	1.304	100.00	100.00	1.8307
Total:			0.381	1.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 18:52	Sample Weight:	1.0000

Chromatogram



Integration Results

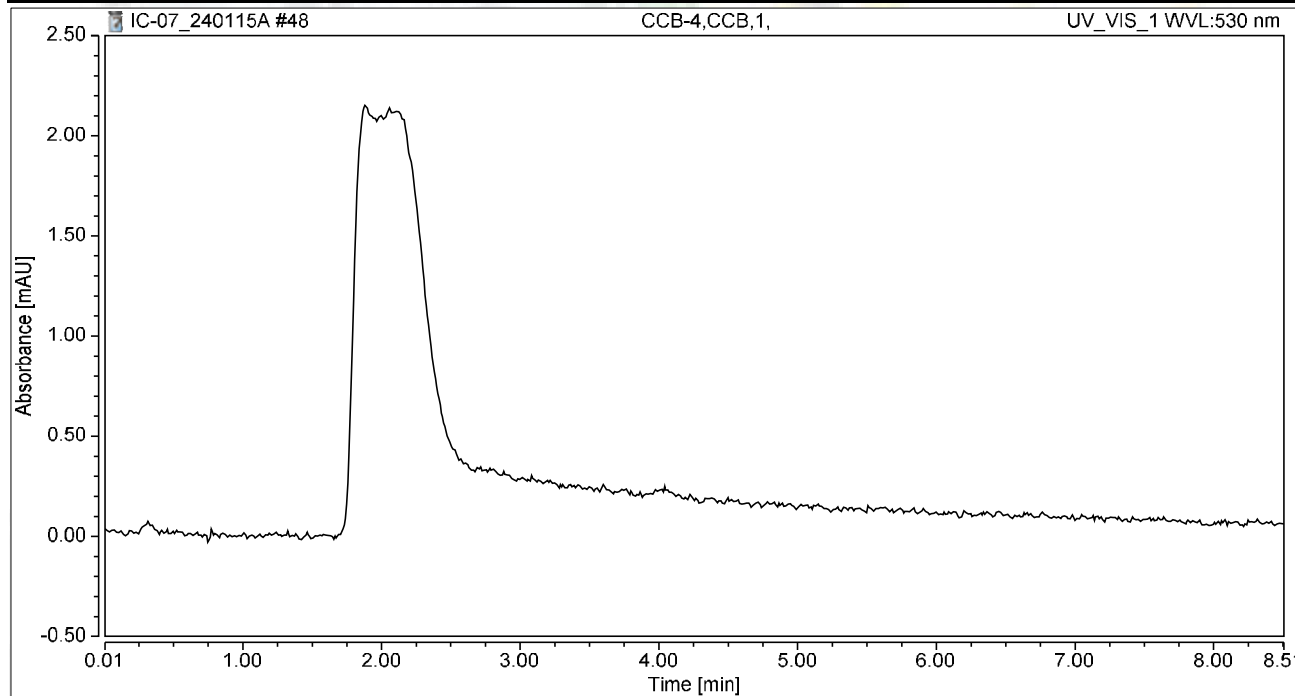
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.091	13.049	100.00	100.00	10.0504
Total:			2.091	13.049	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:02	Sample Weight:	1.0000

Chromatogram



Integration Results

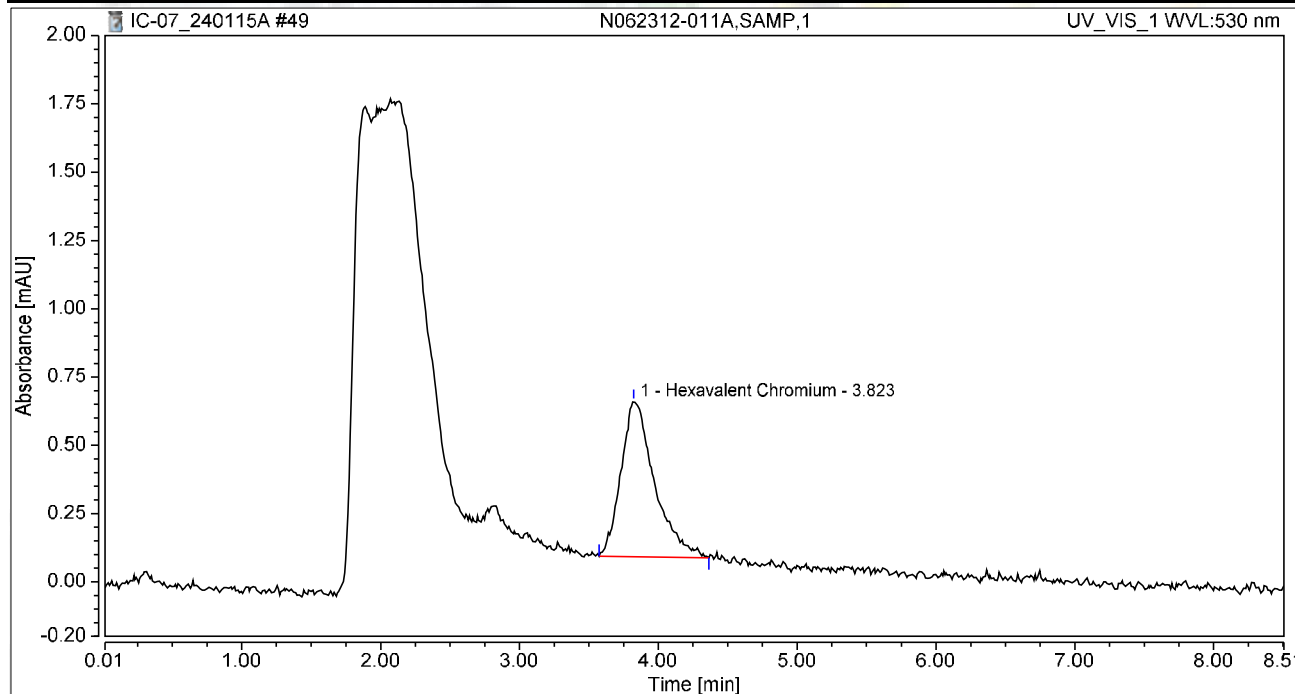
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:11	Sample Weight:	1.0000

Chromatogram



Integration Results

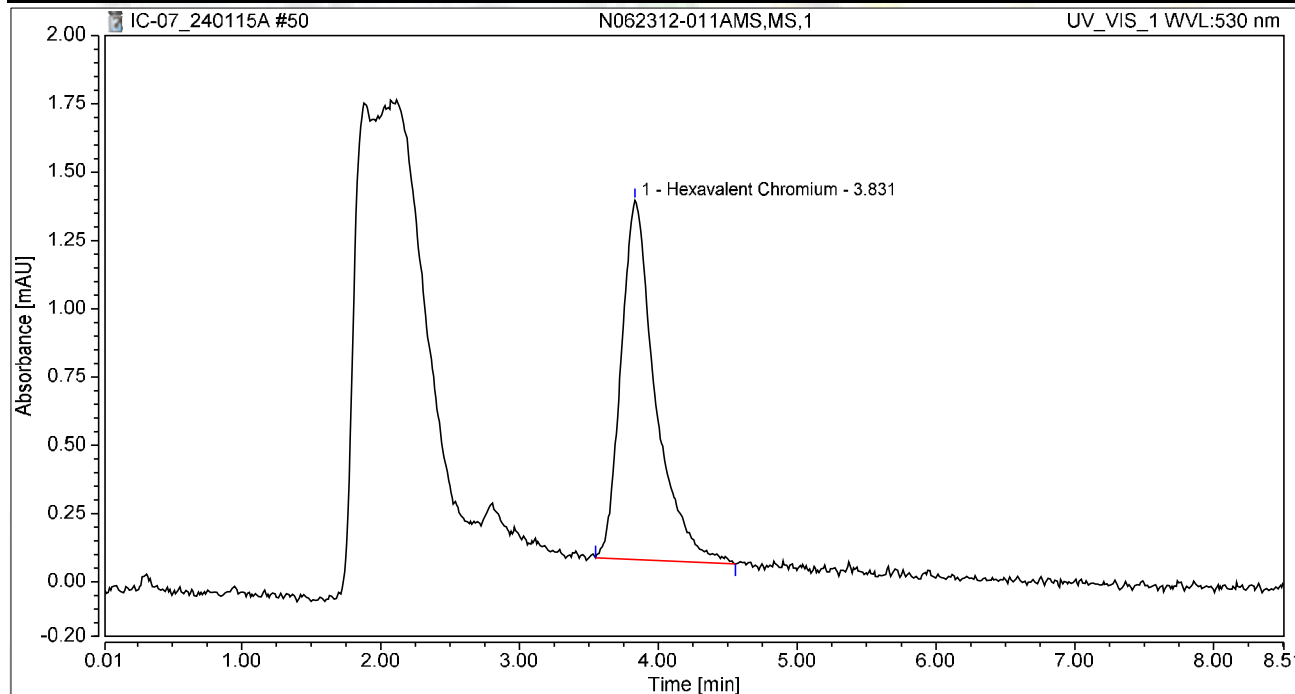
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.159	0.568	100.00	100.00	0.7659
Total:			0.159	0.568	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:21	Sample Weight:	1.0000

Chromatogram



Integration Results

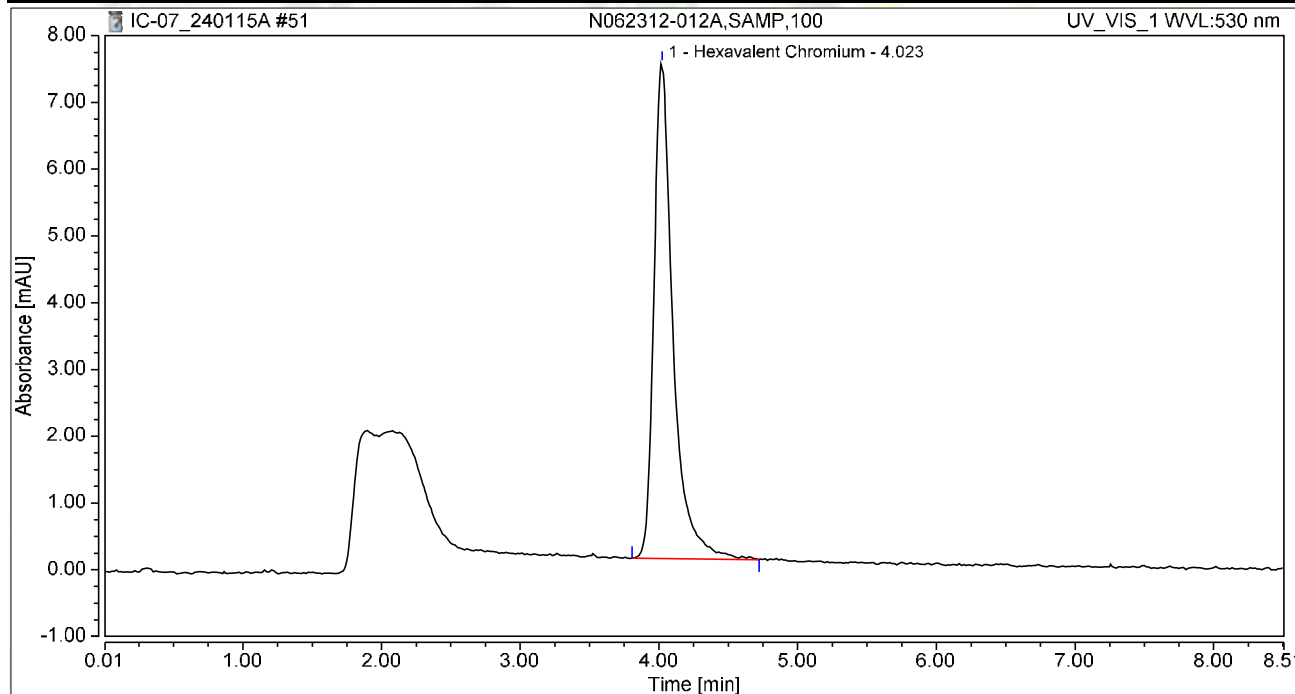
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.377	1.314	100.00	100.00	1.8109
Total:			0.377	1.314	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-012A,SAMP,100	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:30	Sample Weight:	1.0000

Chromatogram



Integration Results

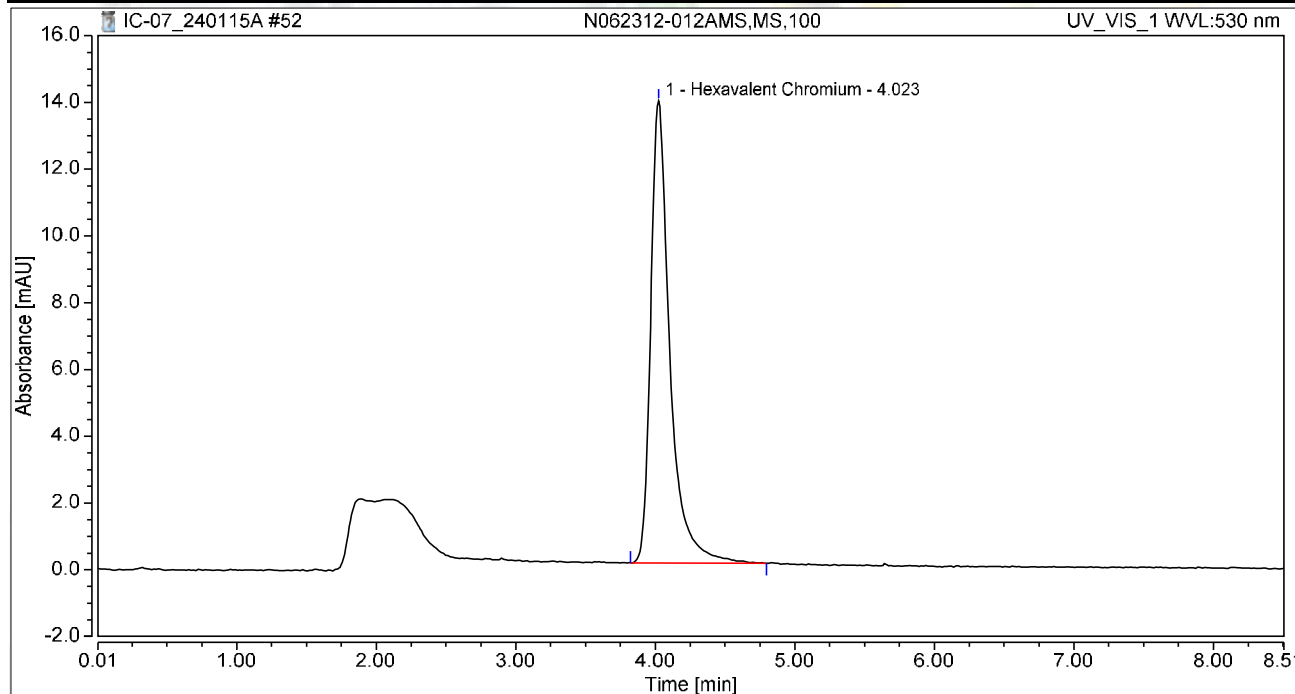
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.188	7.421	100.00	100.00	5.7074
Total:			1.188	7.421	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-012AMS,MS,100	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:39	Sample Weight:	1.0000

Chromatogram



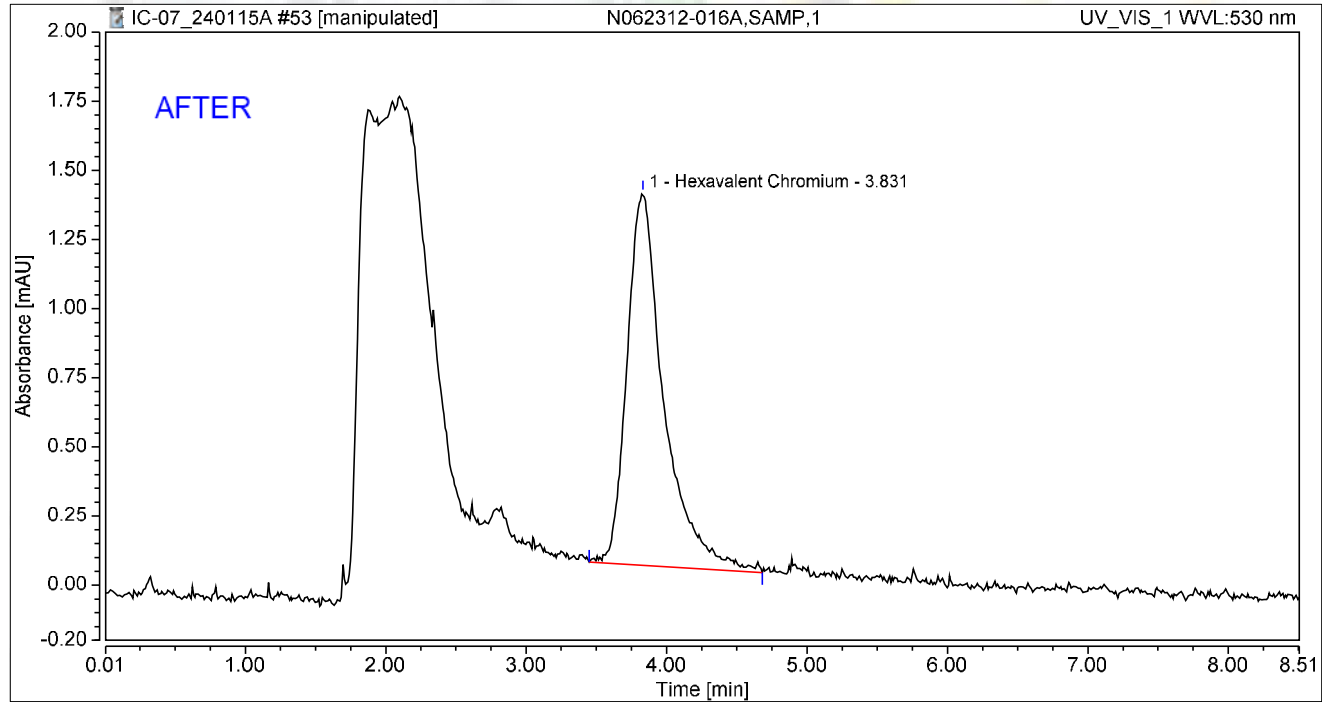
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.208	13.852	100.00	100.00	10.6100
Total:			2.208	13.852	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062312-016A,SAMP,1	Run Time (min): 8.50
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	15/Jan/24 19:49	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.410	1.348	100.00	100.00	1.9720
Total:			0.410	1.348	100.00	100.00	

Reviewed by:

jrb

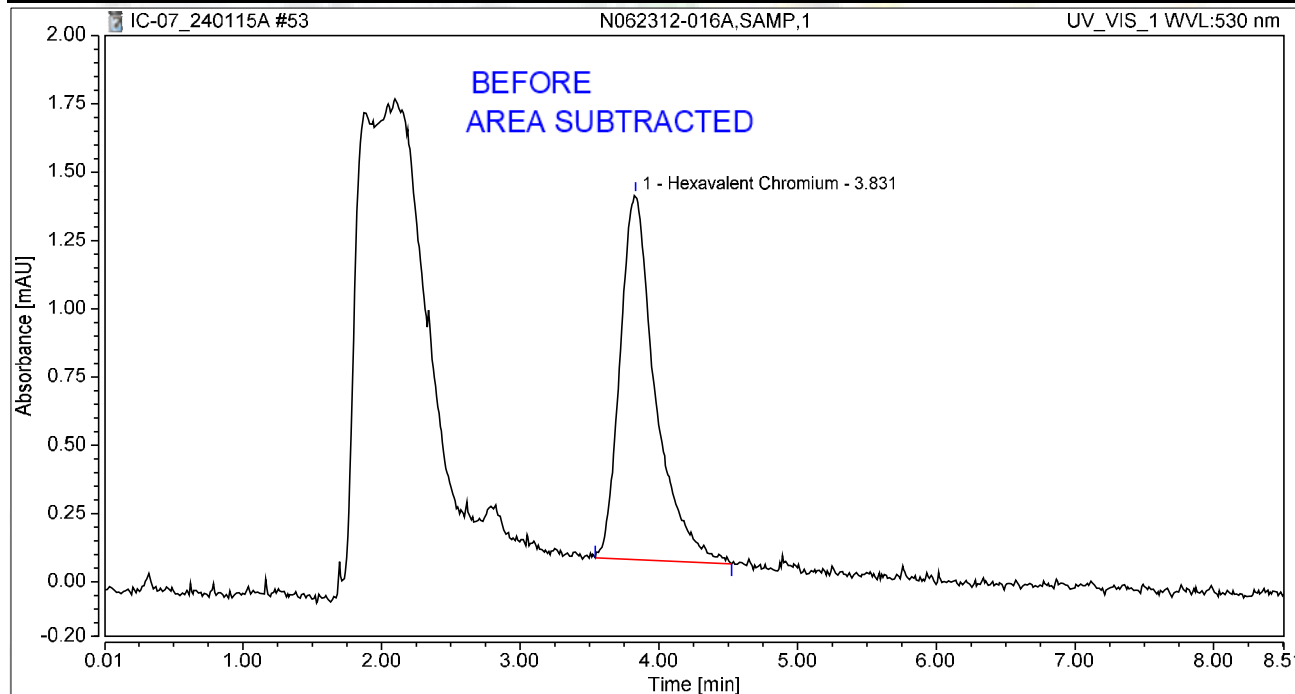
1/25/2024

Chromatogram and Results

Injection Details

Injection Name:	N062312-016A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:49	Sample Weight:	1.0000

Chromatogram



Integration Results

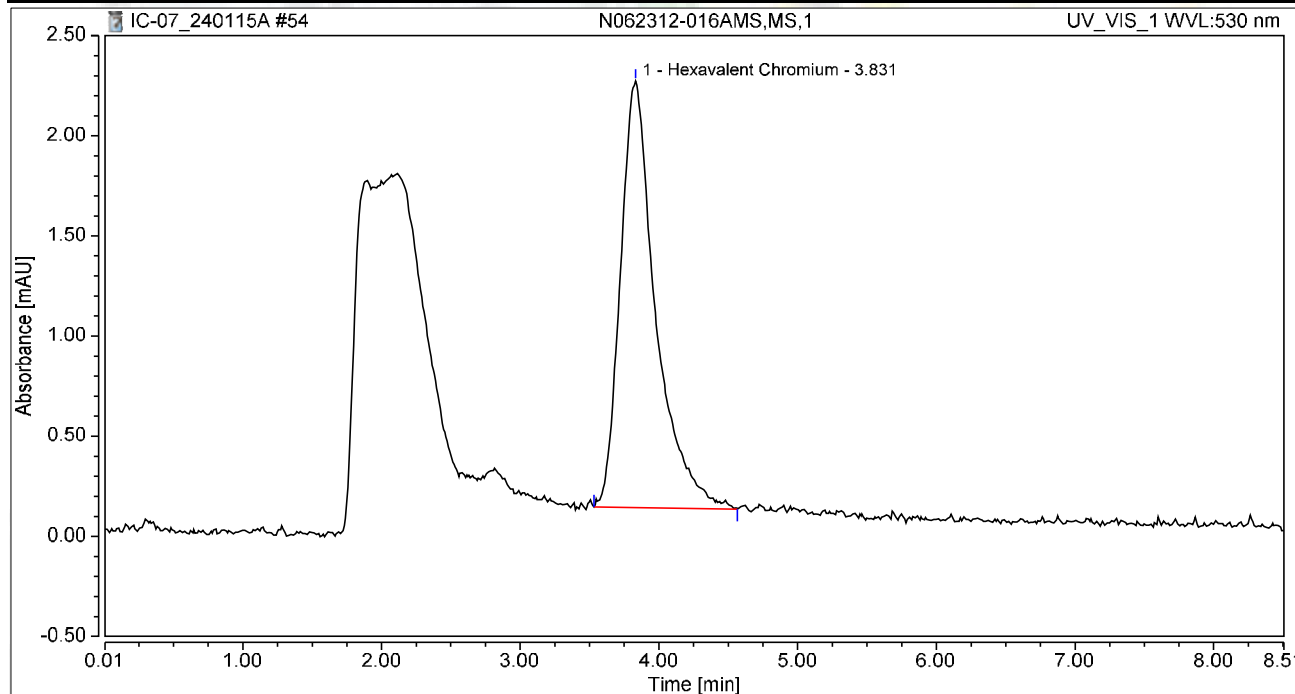
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.394	1.337	100.00	100.00	1.8928
Total:			0.394	1.337	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 19:58	Sample Weight:	1.0000

Chromatogram



Integration Results

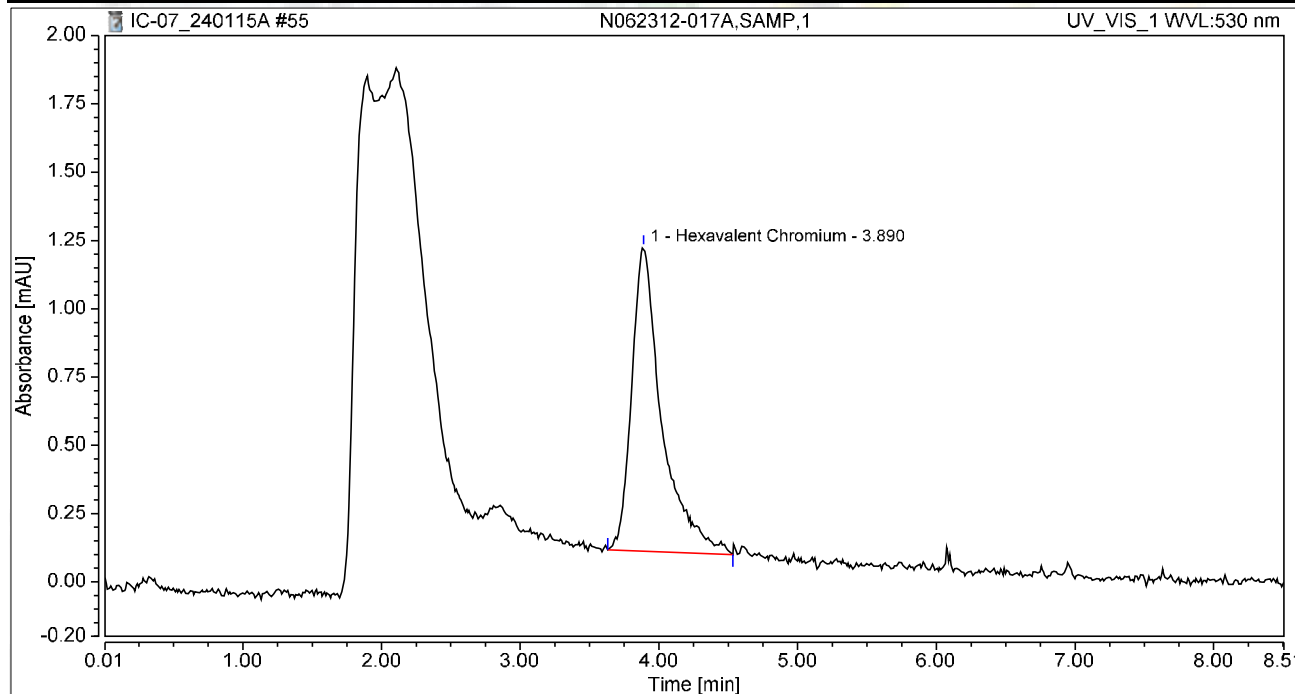
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.626	2.130	100.00	100.00	3.0075
Total:			0.626	2.130	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-017A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:08	Sample Weight:	1.0000

Chromatogram



Integration Results

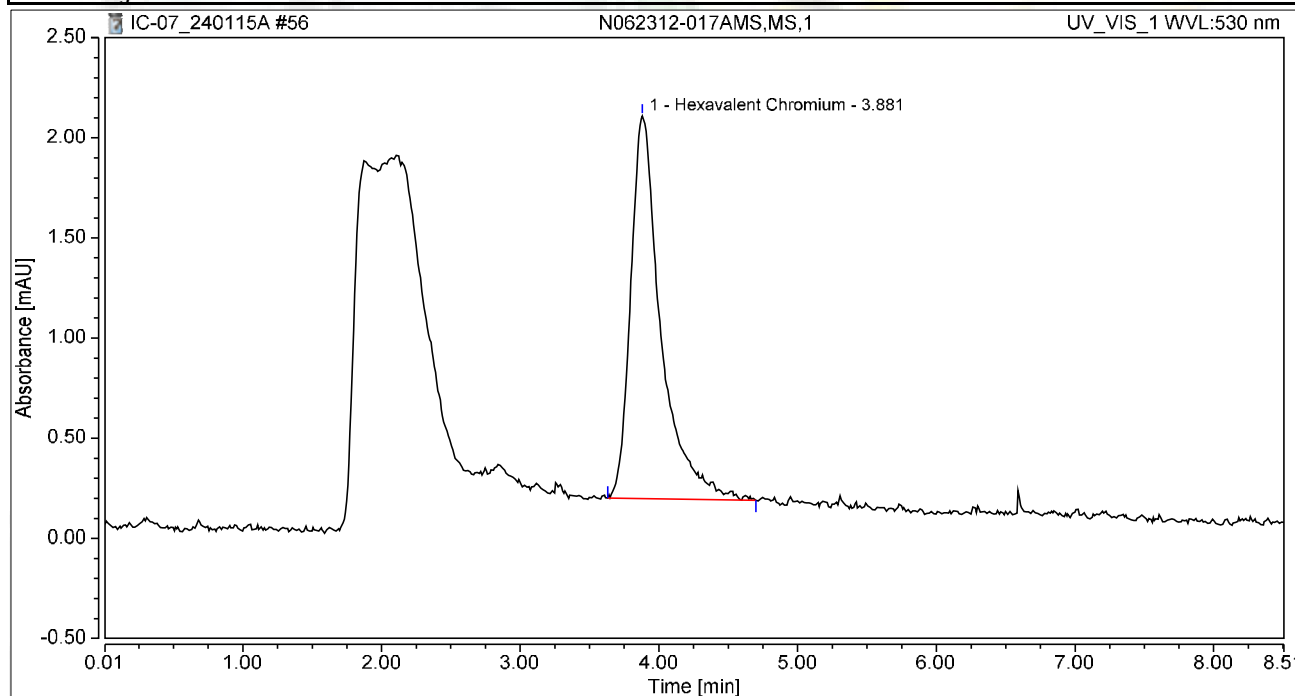
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.280	1.114	100.00	100.00	1.3474
Total:			0.280	1.114	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-017AMS,MS,1	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:17	Sample Weight:	1.0000

Chromatogram



Integration Results

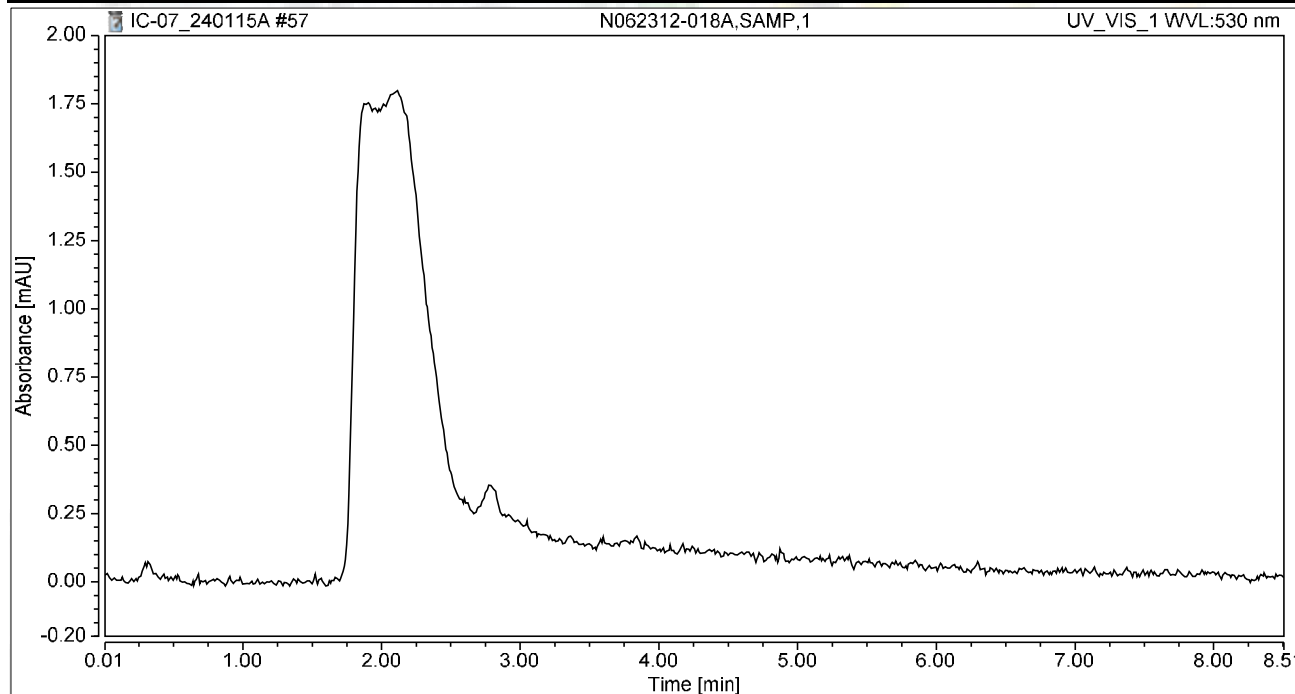
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.482	1.910	100.00	100.00	2.3172
Total:			0.482	1.910	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:27	Sample Weight:	1.0000

Chromatogram



Integration Results

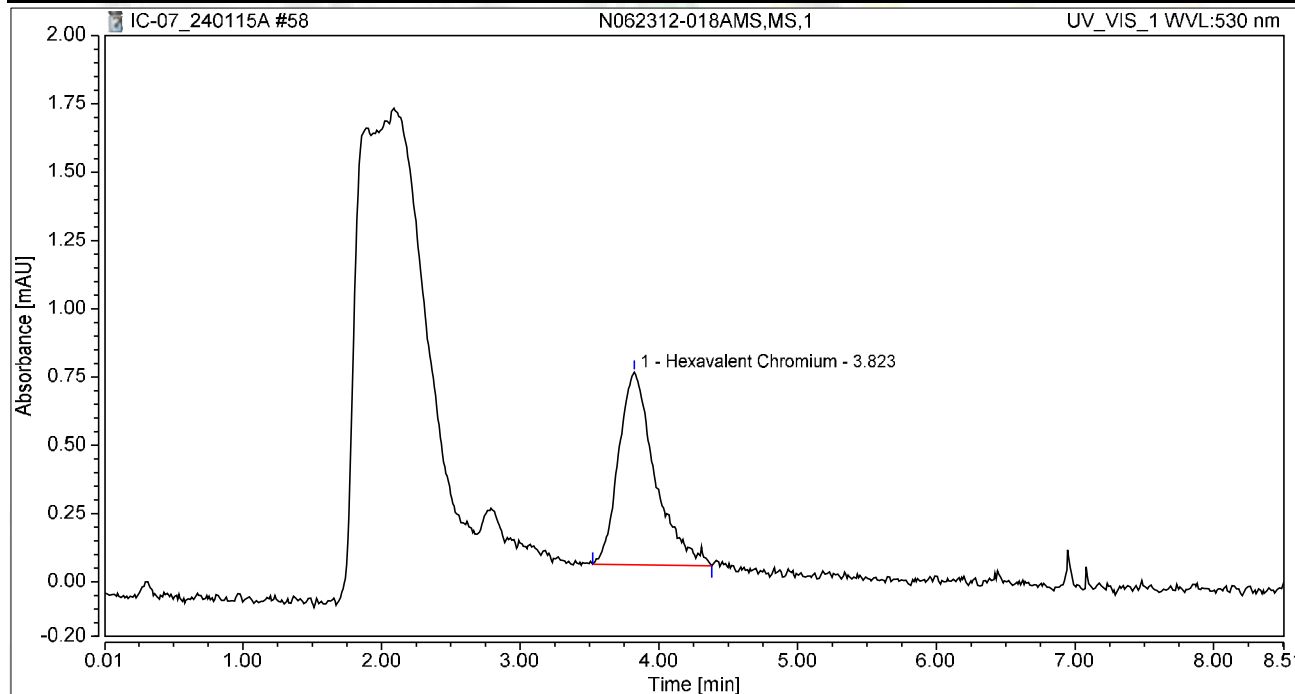
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:36	Sample Weight:	1.0000

Chromatogram



Integration Results

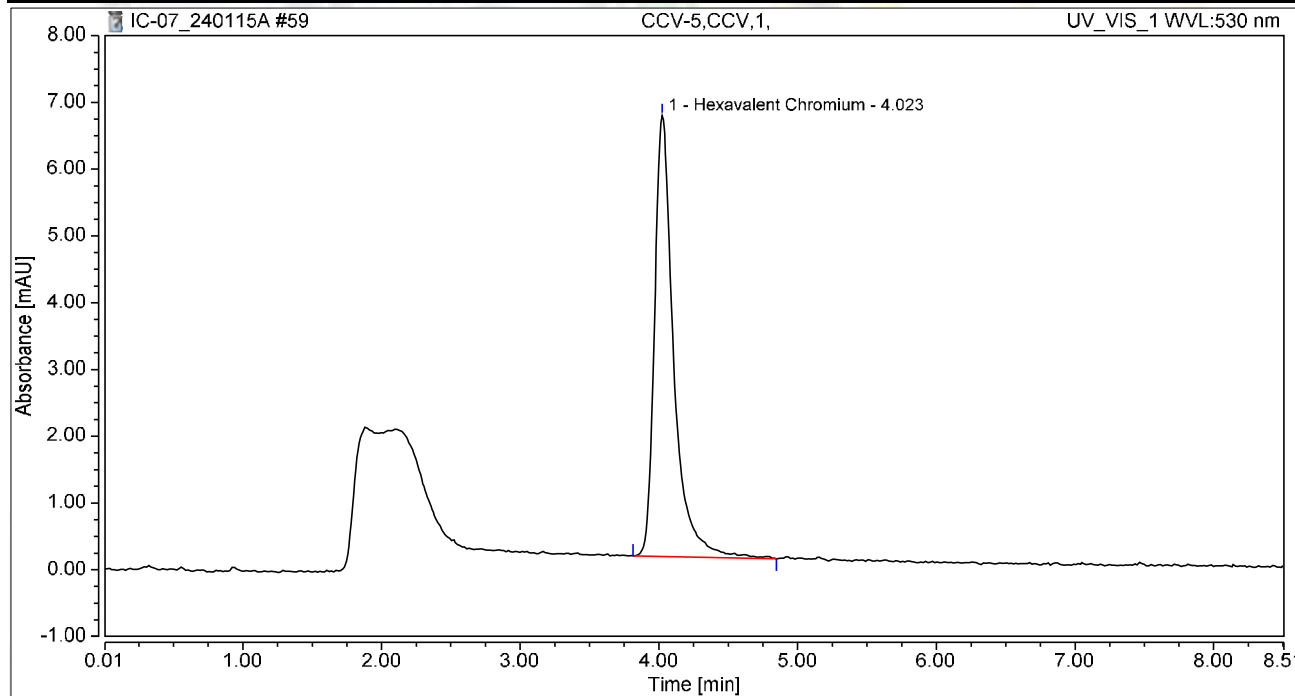
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.214	0.704	100.00	100.00	1.0303
Total:			0.214	0.704	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

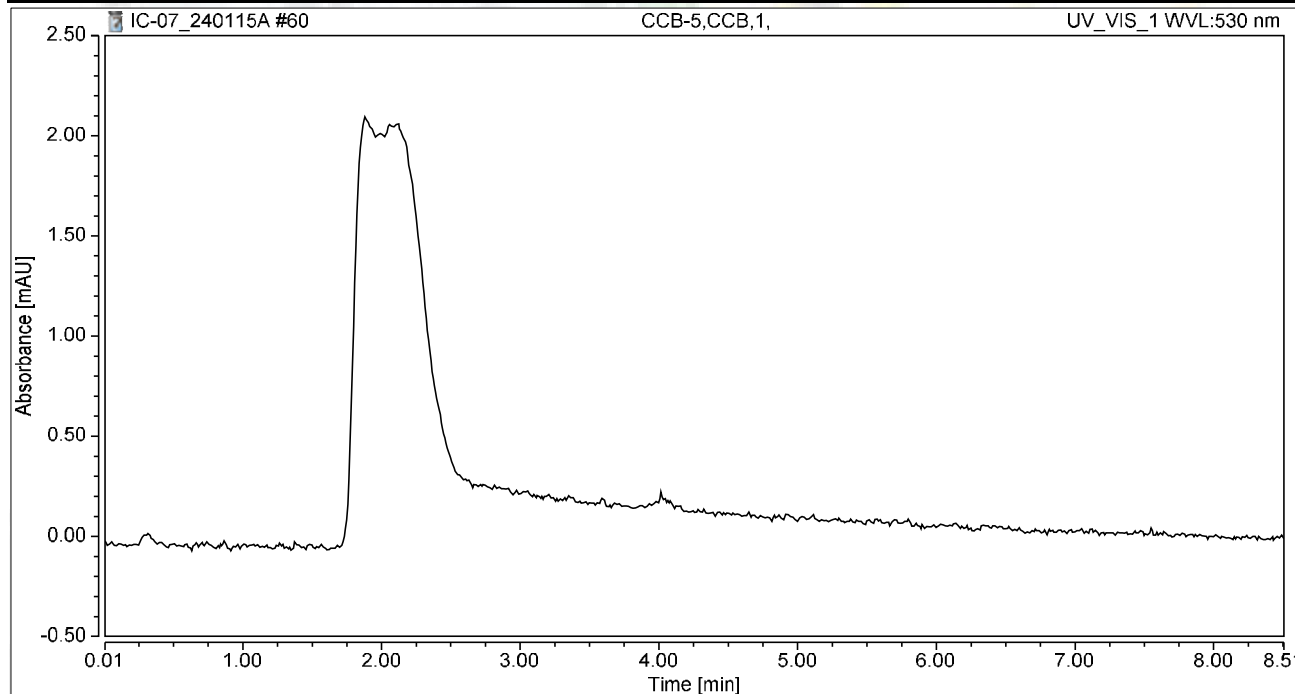
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.058	6.603	100.00	100.00	5.0848
Total:			1.058	6.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 20:55	Sample Weight:	1.0000

Chromatogram



Integration Results

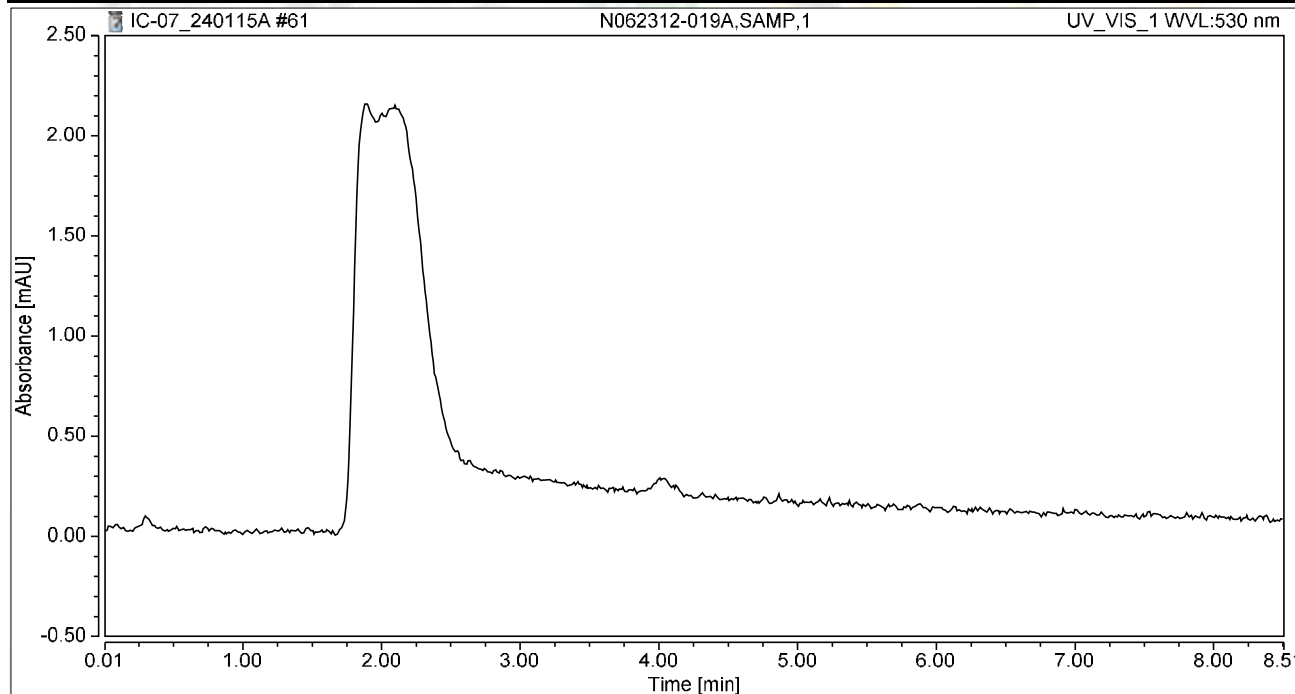
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:05	Sample Weight:	1.0000

Chromatogram



Integration Results

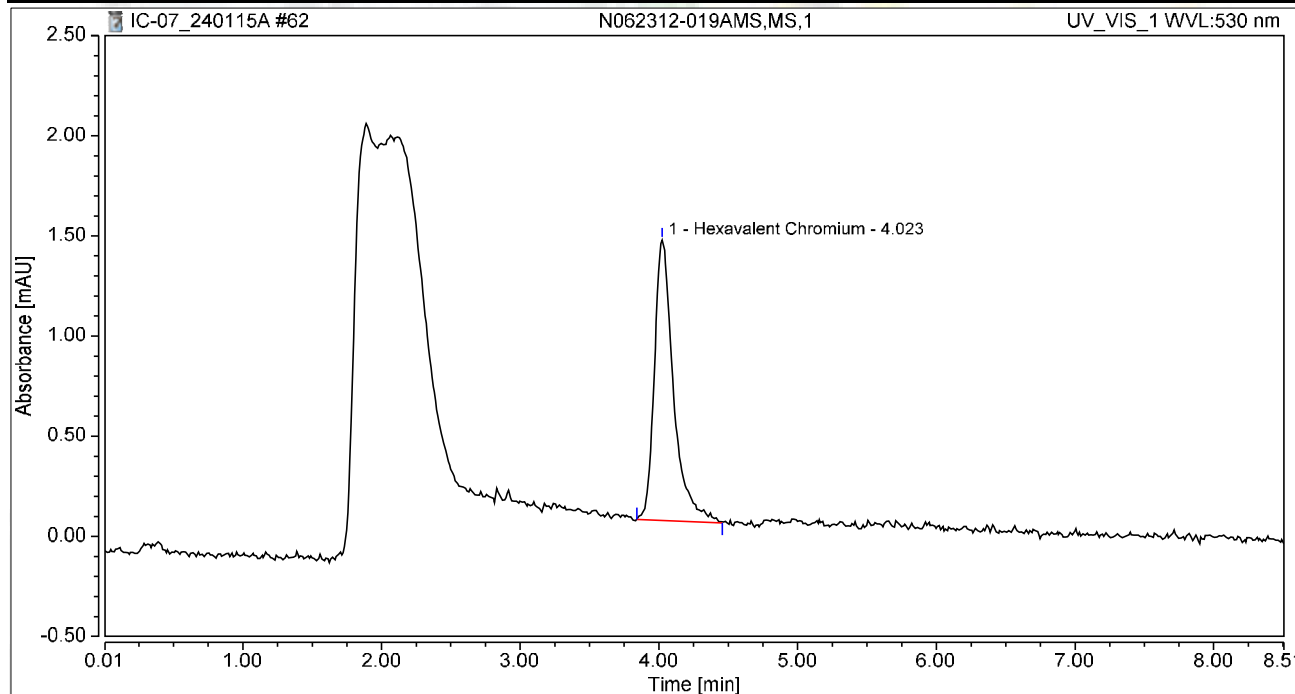
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:14	Sample Weight:	1.0000

Chromatogram



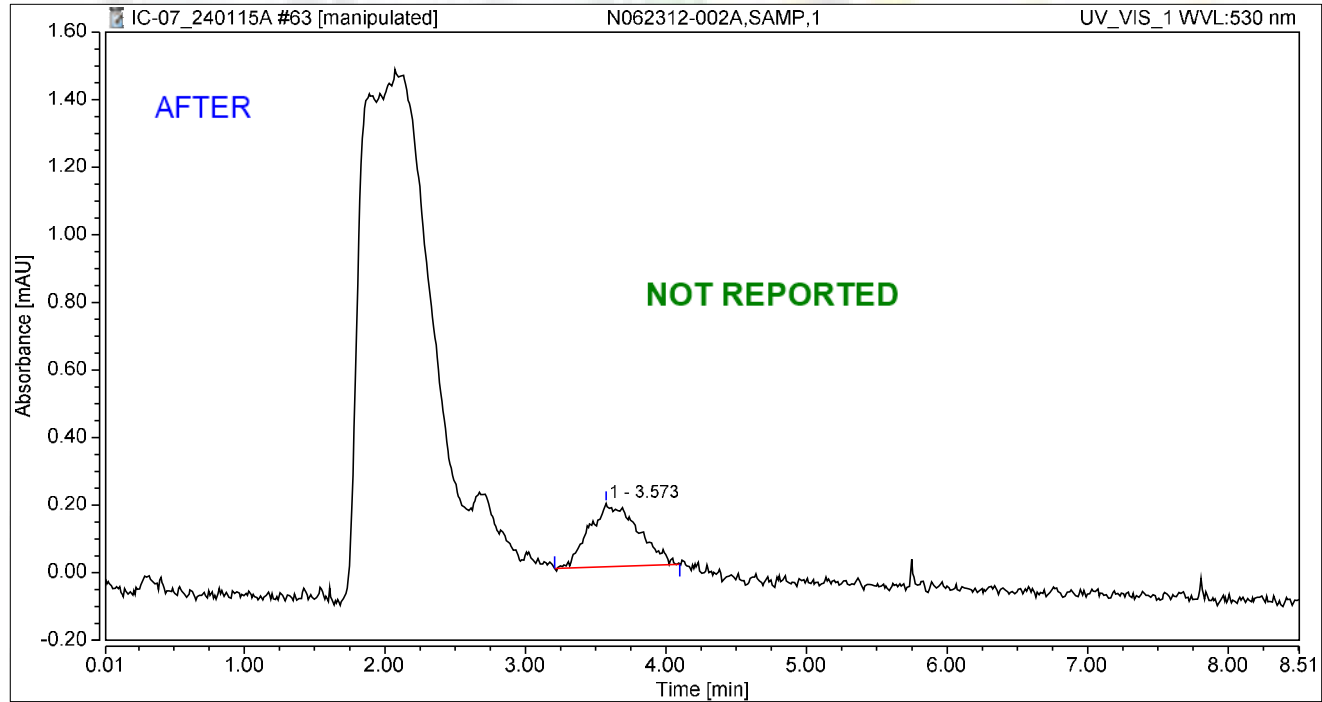
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.224	1.400	100.00	100.00	1.0779
Total:			0.224	1.400	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062312-002A,SAMP,1	Run Time (min): 8.49
Vial Number:	39	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	15/Jan/24 21:23	Sample Weight: 1.0000

Chromatogram



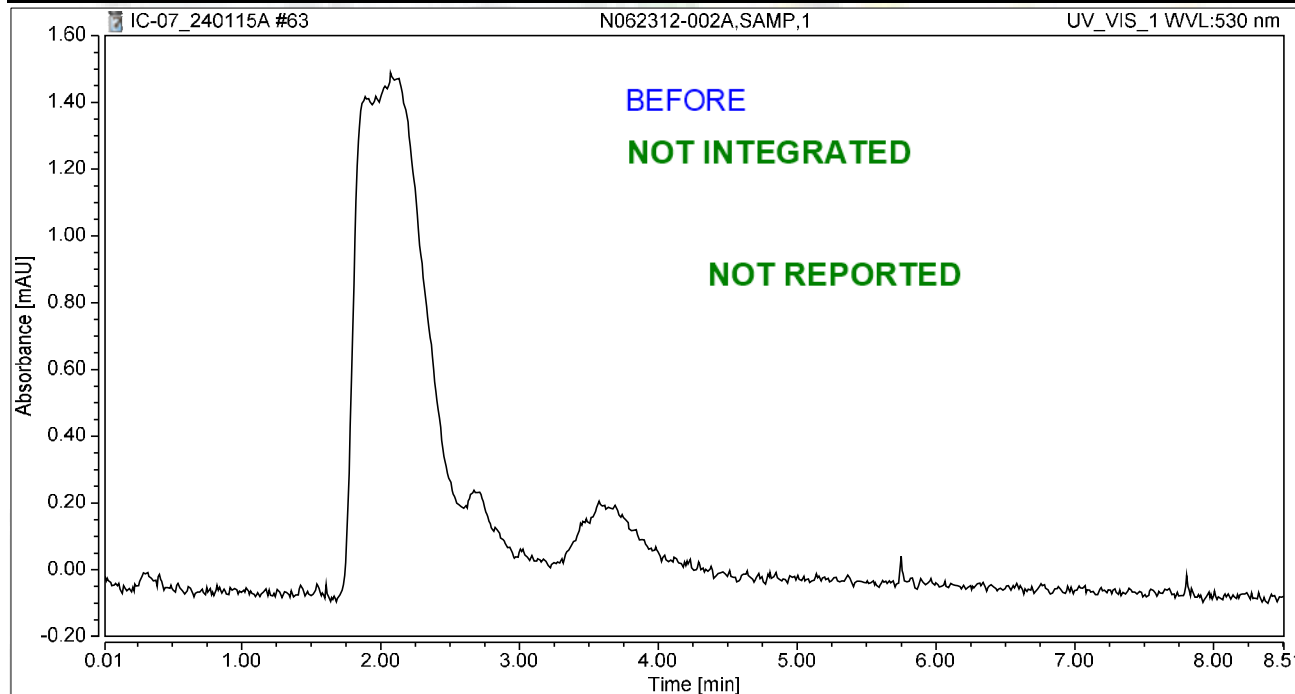
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.074	0.188	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.074	0.188	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:23	Sample Weight:	1.0000

Chromatogram



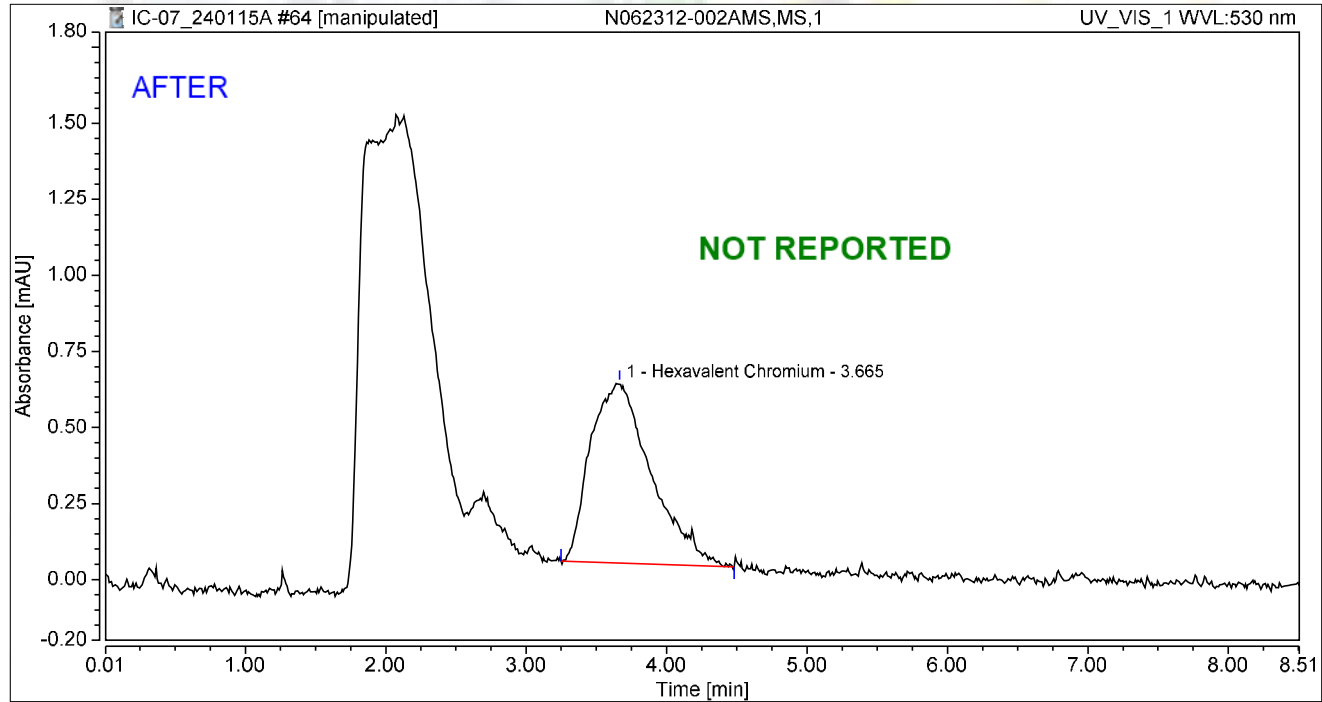
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062312-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	40	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	15/Jan/24 21:33	Sample Weight: 1.0000

Chromatogram



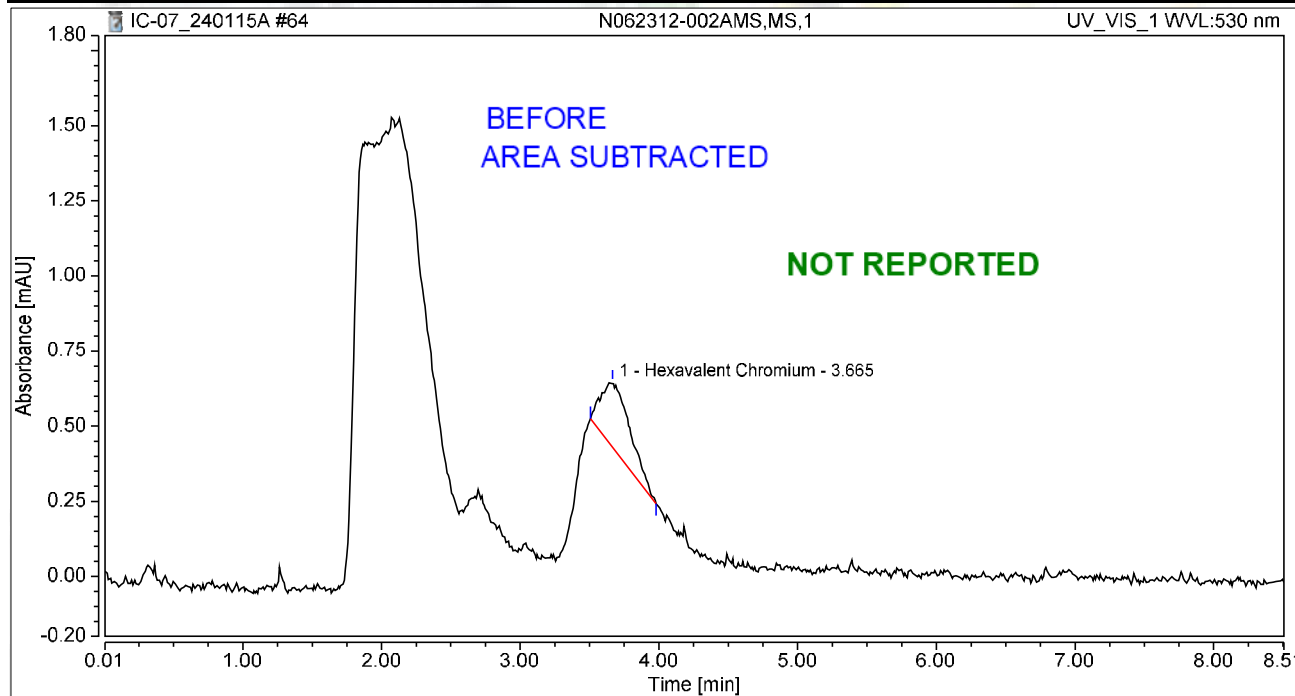
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.665	0.297	0.594	100.00	100.00	1.4285
Total:			0.297	0.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:33	Sample Weight:	1.0000

Chromatogram



Integration Results

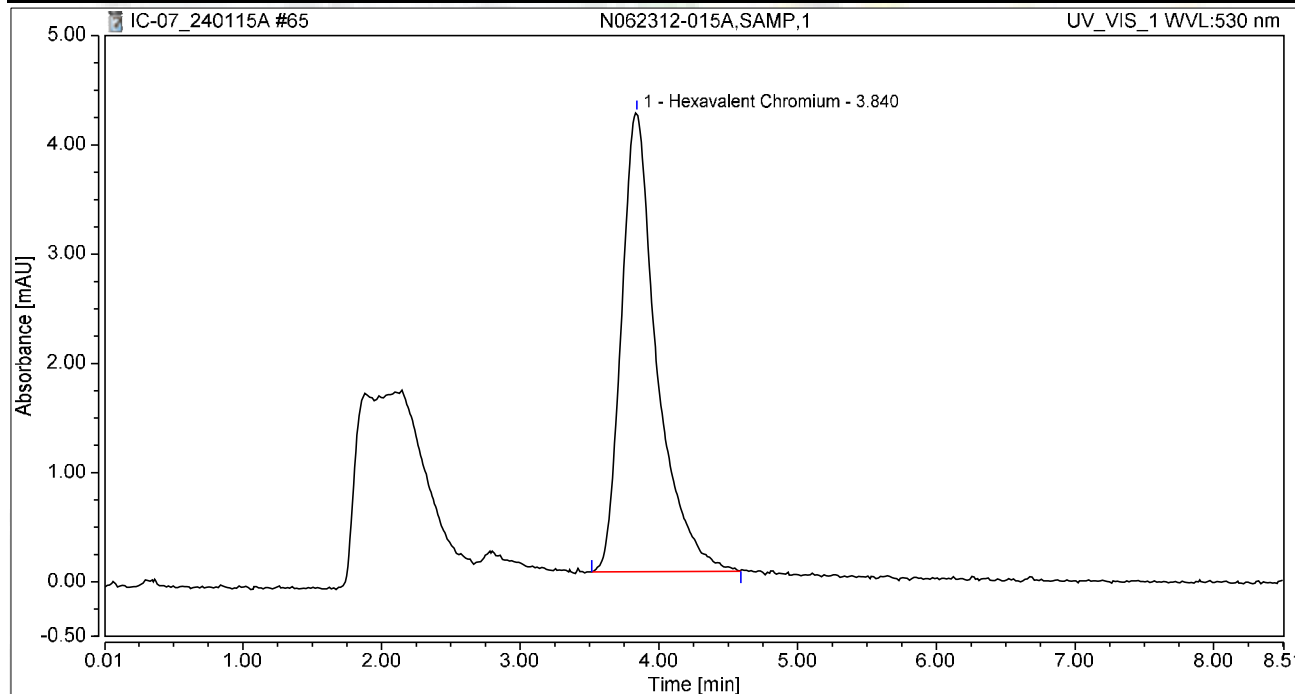
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.665	0.054	0.217	100.00	100.00	0.2598
Total:			0.054	0.217	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:42	Sample Weight:	1.0000

Chromatogram



Integration Results

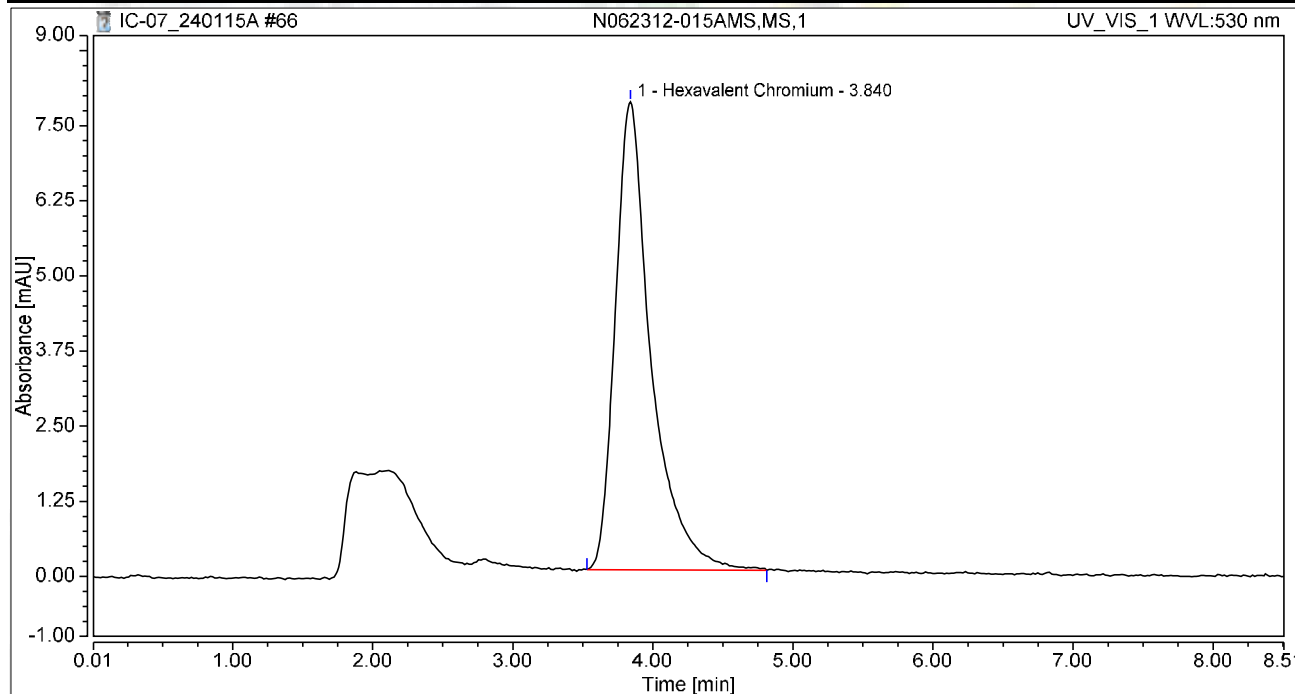
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	1.239	4.205	100.00	100.00	5.9556
Total:			1.239	4.205	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 21:52	Sample Weight:	1.0000

Chromatogram



Integration Results

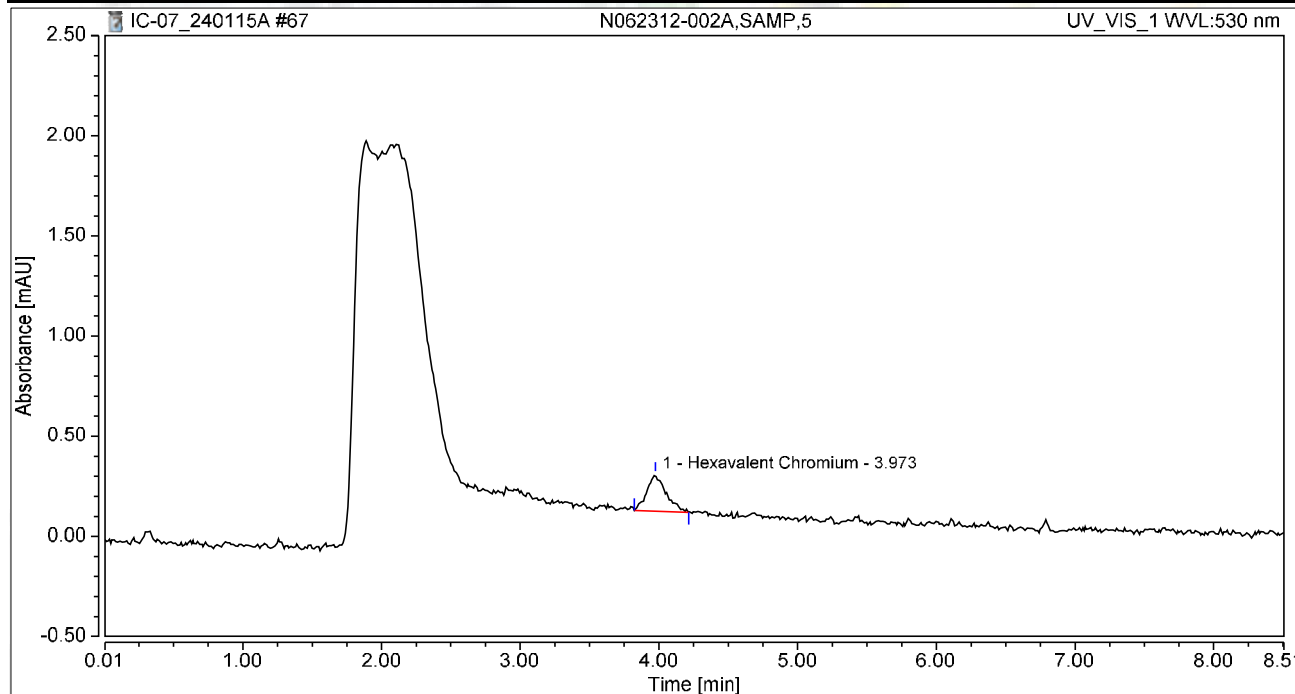
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	2.310	7.793	100.00	100.00	11.1036
Total:			2.310	7.793	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:01	Sample Weight:	1.0000

Chromatogram



Integration Results

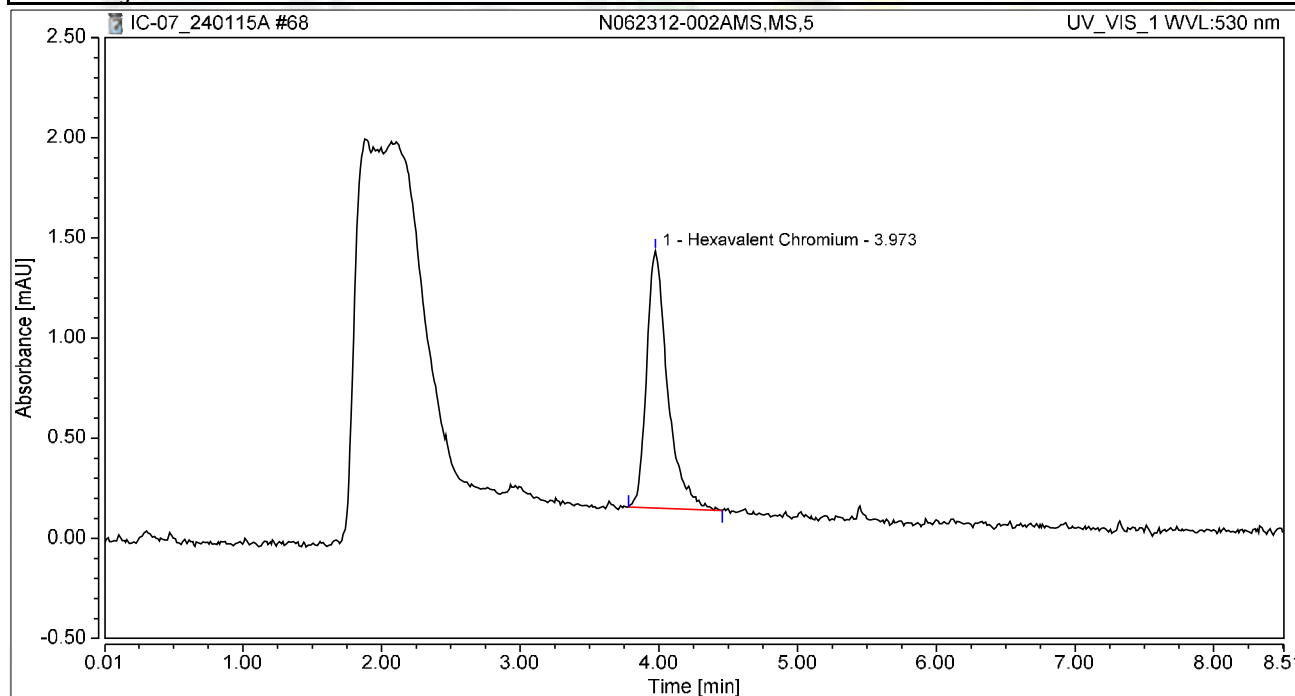
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.029	0.184	100.00	100.00	0.1411
Total:			0.029	0.184	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

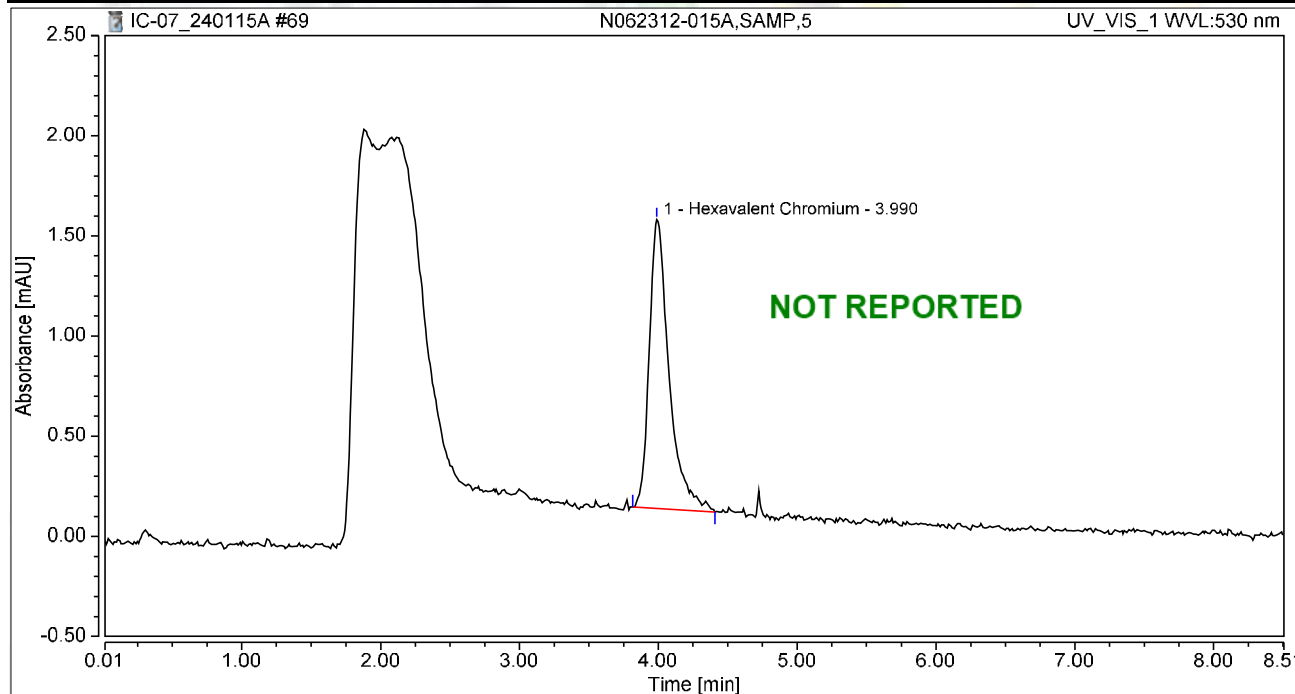
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.225	1.284	100.00	100.00	1.0829
Total:			0.225	1.284	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015A,SAMP,5	Run Time (min):	8.49
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:20	Sample Weight:	1.0000

Chromatogram



Integration Results

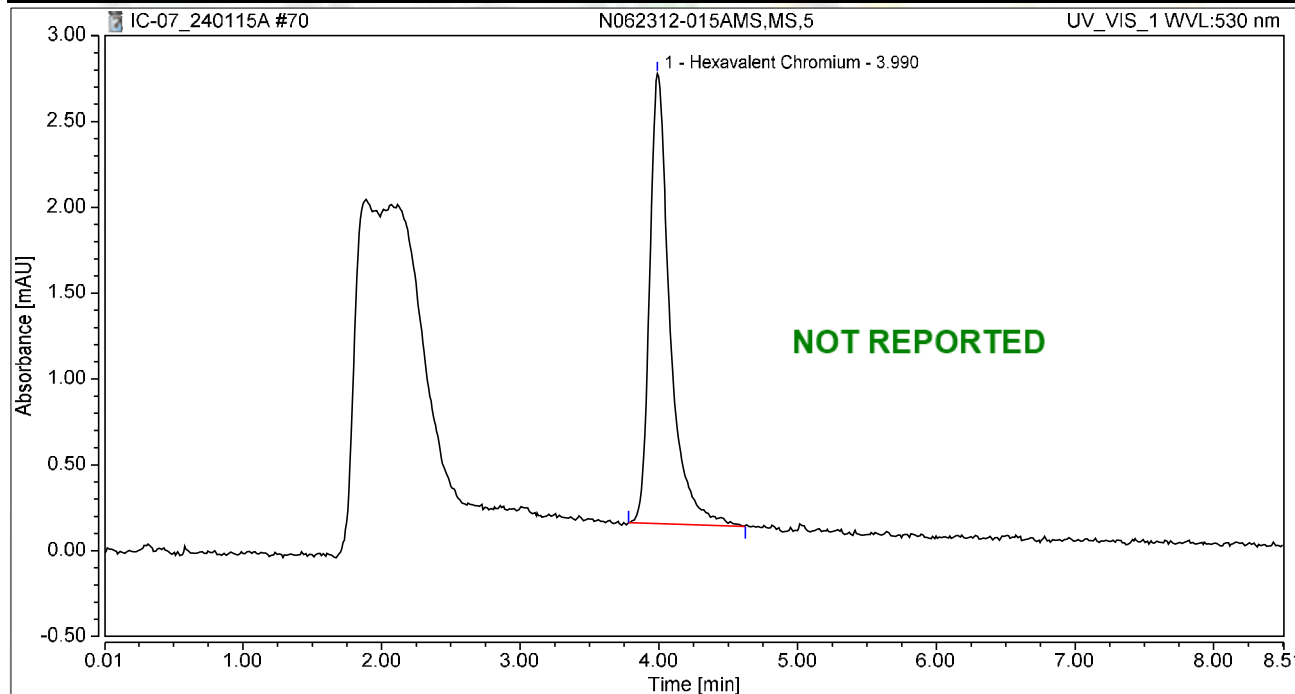
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.239	1.441	100.00	100.00	1.1505
Total:			0.239	1.441	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062312-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:30	Sample Weight:	1.0000

Chromatogram



Integration Results

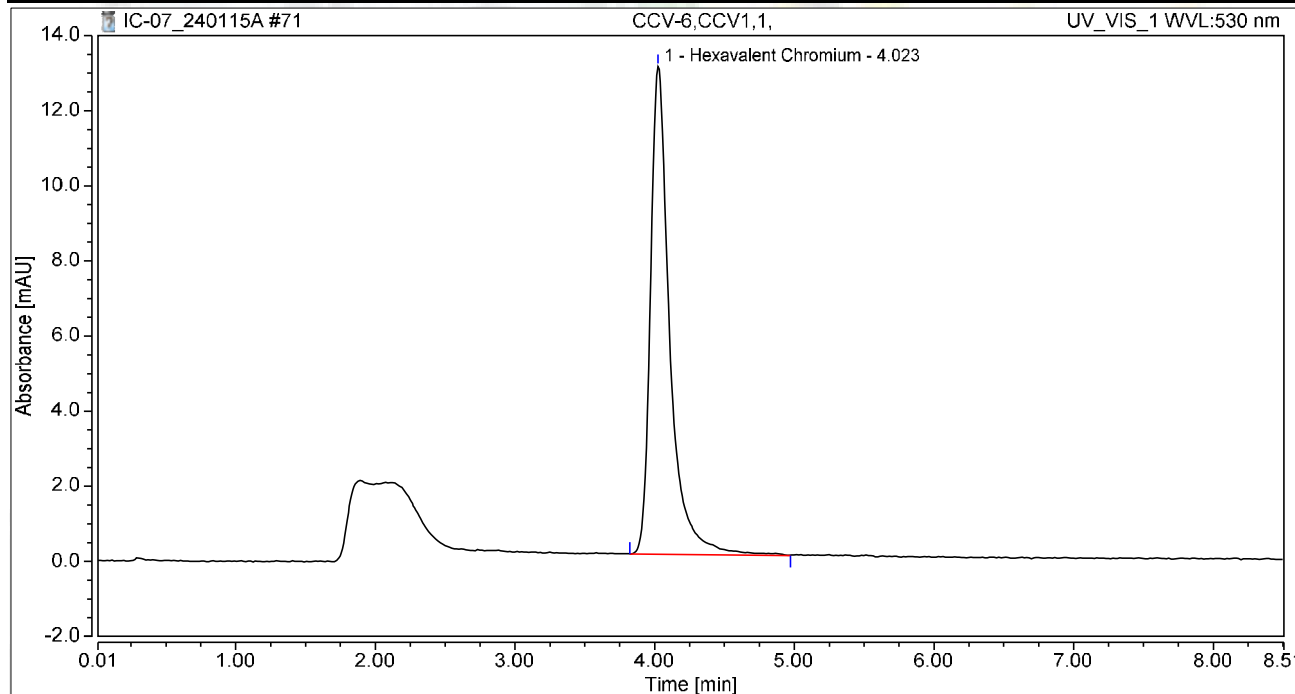
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.446	2.621	100.00	100.00	2.1435
Total:			0.446	2.621	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.49
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:39	Sample Weight:	1.0000

Chromatogram



Integration Results

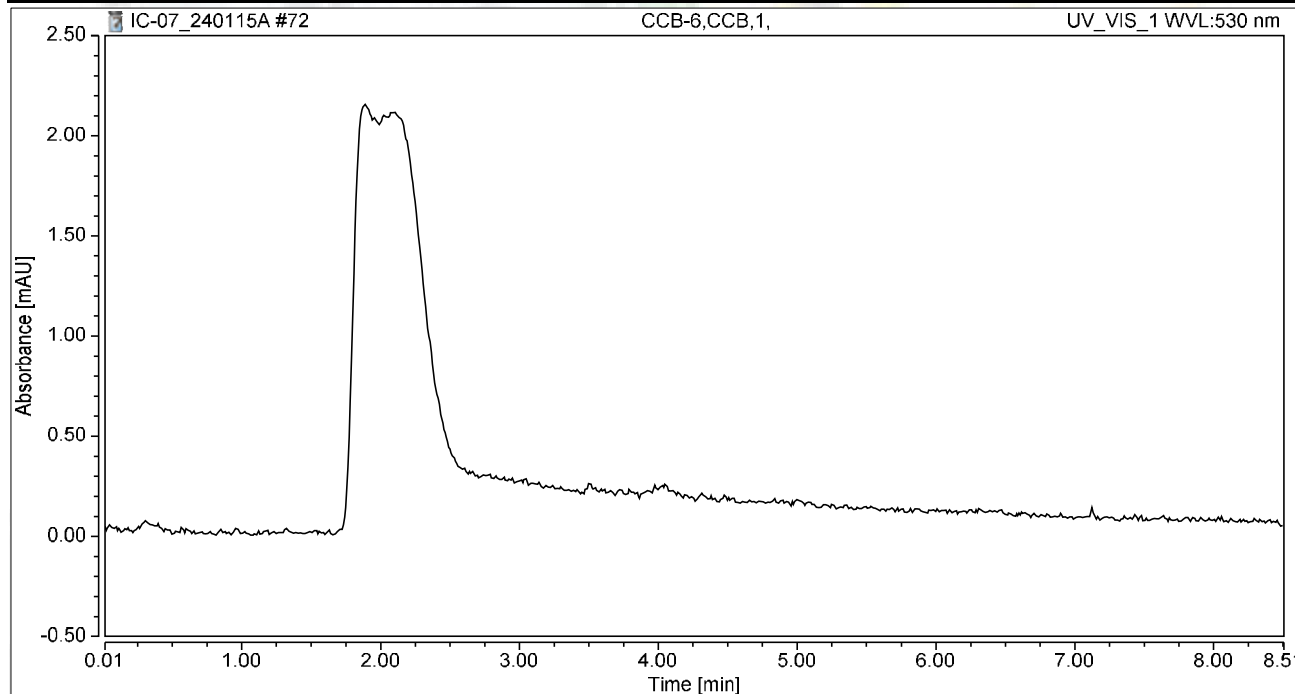
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.095	12.996	100.00	100.00	10.0682
Total:			2.095	12.996	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:49	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

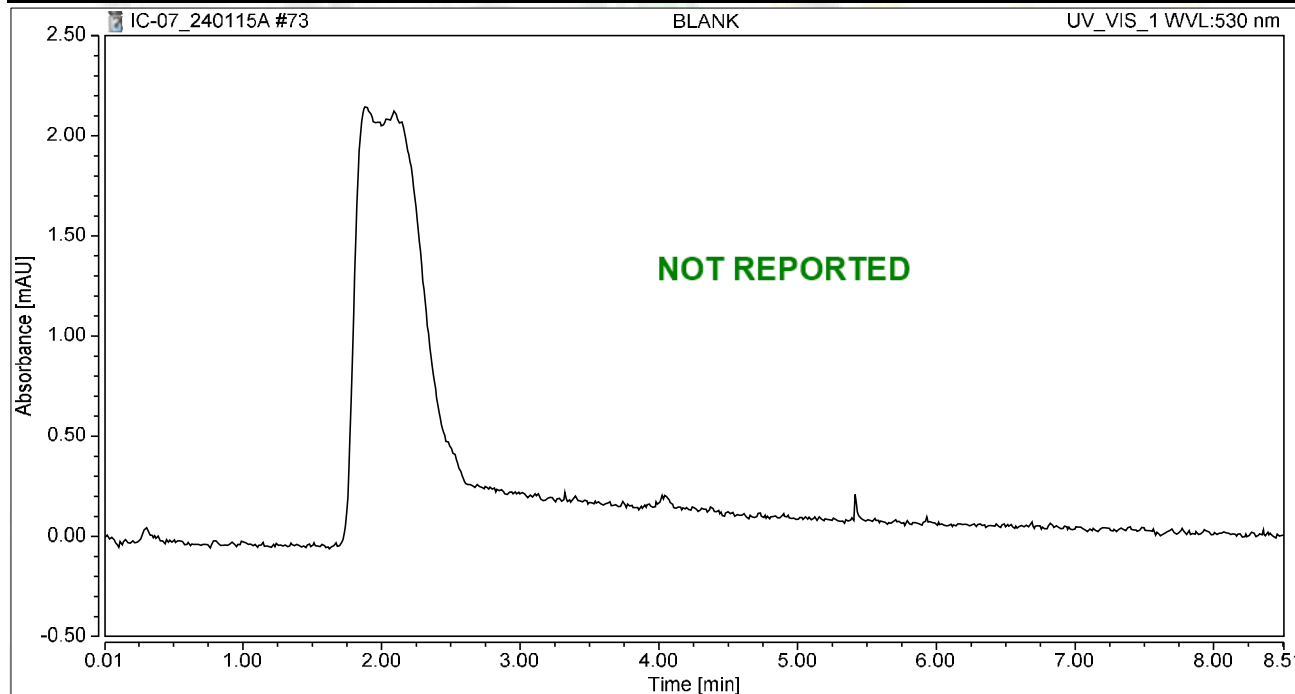
jrb 1/25/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	15/Jan/24 22:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180295
 ASSET # N062279 / N062309 / N062312

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 1/11/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.		X			X	
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Detection of Sulfate in several CCB was >1/2PQL. However, N062312 samples were >5X the CCB detection.
 %RPD of Nitrate in N062309-007B DUP failed. However, LCS passed criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
 Thurmy 01/24/2024
 2nd Level Reviewer _____

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062312-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.0884 * 10 \\ &= 0.884\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{0.88}$$

Reviewed by:

d/Recha 1/30/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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Sequence: IC-08_240102A
Operator: IC-05

Page 1 of 2
Printed: 1/2/2024 9:41:37 PM

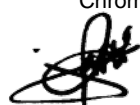
Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/2/2024 3:45:40 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
12	N062100-001A,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062054-002A,SAMP,5	Unknown	14	1000.0	Anions Default2	EPA 300_0_240102	Finished
14	N062054-001A,SAMP,5	Unknown	15	1000.0	Anions Default2	EPA 300_0_240102	Finished
15	N062054-003A,SAMP,5	Unknown	16	1000.0	Anions Default2	EPA 300_0_240102	Finished
16	N062054-004A,SAMP,5	Unknown	17	1000.0	Anions Default2	EPA 300_0_240102	Finished
17	N062054-005A,SAMP,5	Unknown	18	1000.0	Anions Default2	EPA 300_0_240102	Finished
18	N062054-006A,SAMP,5	Unknown	19	1000.0	Anions Default2	EPA 300_0_240102	Finished
19	BLANK	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
22	N062100-001ADUP,DUP,10	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062100-001AMS,MS,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062100-001AMSD,MSD,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062054-002AMS,MS,5	Unknown	26	1000.0	Anions Default2	EPA 300_0_240102	Finished
26	N062054-002AMSD,MSD,5	Unknown	27	1000.0	Anions Default2	EPA 300_0_240102	Finished
27	N062054-001ADUP,DUP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240102	Finished
28	BLANK	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
29	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
30	CCV-2,CCV,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
31	CCB-2,CCB,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:

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1/2/2024

IC8 RBA 1/2/2024 9:43:53 PM



01/09/2024

231

Sequence: IC-08_240102A
Operator: IC-05

Page 2 of 2
Printed: 1/2/2024 9:41:37 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/2/2024 3:45:40 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	ICV,ICV,1	1/2/2024 1:57:20 PM	ICV, IWST-231228F
9	ICB,ICB,1	1/2/2024 2:12:38 PM	CCB
10	MB-H2O,MBLK,1	1/2/2024 2:27:56 PM	MB
11	LCS-H2O,LCS,1	1/2/2024 2:43:13 PM	LCS, IWST-231228F
12	N062100-001A,SAMP,10	1/2/2024 3:09:01 PM	SAMP,1>10mL,
13	N062054-002A,SAMP,5	1/2/2024 3:46:10 PM	SAMP,2>10mL,
14	N062054-001A,SAMP,5	1/2/2024 4:08:28 PM	SAMP,2>10mL,
15	N062054-003A,SAMP,5	1/2/2024 4:30:47 PM	SAMP,2>10mL,
16	N062054-004A,SAMP,5	1/2/2024 4:53:05 PM	SAMP,2>10mL,
17	N062054-005A,SAMP,5	1/2/2024 5:15:23 PM	SAMP,2>10mL,
18	N062054-006A,SAMP,5	1/2/2024 5:37:42 PM	SAMP,2>10mL,
19	BLANK	1/2/2024 5:59:59 PM	BLANK
20	CCV-1,CCV,1	1/2/2024 6:15:17 PM	CCV, IWST-231228E
21	CCB-1,CCB,1	1/2/2024 6:30:36 PM	CCB
22	N062100-001ADUP,DUP,10	1/2/2024 6:45:54 PM	DUP,1>10mL,
23	N062100-001AMS,MS,10	1/2/2024 7:01:13 PM	MS,1>10mL,
24	N062100-001AMSD,MSD,10	1/2/2024 7:16:31 PM	MSD,1>10mL,
25	N062054-002AMS,MS,5	1/2/2024 7:31:49 PM	MS,2>10mL,
26	N062054-002AMSD,MSD,5	1/2/2024 7:54:07 PM	MSD,2>10mL,
27	N062054-001ADUP,DUP,5	1/2/2024 8:16:26 PM	DUP,2>10mL,
28	BLANK	1/2/2024 8:38:44 PM	BLANK
29	BLANK	1/2/2024 8:54:02 PM	BLANK
30	CCV-2,CCV,1	1/2/2024 9:09:19 PM	CCV, IWST-231228E
31	CCB-2,CCB,1	1/2/2024 9:24:38 PM	CCB

Sequence: IC-08_240111A
Operator: IC-05

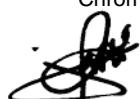
Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240102	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240102	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240102	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062279-001B,SAMP,20	Unknown	6	1000.0	Anions Default	EPA 300_0_240102	Finished
14	N062309-007B,SAMP,10	Unknown	7	1000.0	Anions Default	EPA 300_0_240102	Finished
15	N062309-008B,SAMP,5	Unknown	8	1000.0	Anions Default	EPA 300_0_240102	Finished
16	N062312-006B,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
17	N062312-001B,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
18	N062312-002B,SAMP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
19	N062312-003B,SAMP,10	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
20	N062312-004B,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCV-2,CCV,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
22	CCB-2,CCB,1	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062312-005B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062312-007B,SAMP,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062312-008B,SAMP,10	Unknown	15	1000.0	Anions Default	EPA 300_0_240102	Finished
26	N062312-010B,SAMP,10	Unknown	16	1000.0	Anions Default	EPA 300_0_240102	Finished
27	N062312-011B,SAMP,10	Unknown	17	1000.0	Anions Default	EPA 300_0_240102	Finished
28	N062312-012B,SAMP,10	Unknown	18	1000.0	Anions Default	EPA 300_0_240102	Finished
29	N062312-013B,SAMP,10	Unknown	19	1000.0	Anions Default	EPA 300_0_240102	Finished
30	N062312-014B,SAMP,10	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
31	N062312-015B,SAMP,10	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
32	N062312-016B,SAMP,10	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
33	CCV-3,CCV,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
34	CCB-3,CCB,1	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
35	N062312-017B,SAMP,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
36	N062312-018B,SAMP,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
37	N062312-006BMS,MS,10	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
38	N062312-006BMSD,MSD,10	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
39	N062309-007B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
40	N062309-007BDUP,DUP,50	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
41	N062309-007BMS,MS,50	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:

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1/12/2024

IC8 RBA 1/12/2024 4:25:58 PM

Sequence: IC-08_240111A
Operator: IC-05

Page 2 of 6
Printed: 1/12/2024 4:22:20 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	BLANK	1/11/2024 8:53:23 AM	BLANK
9	CCV-1,CCV,1	1/11/2024 9:08:41 AM	CCV, IWST-240105A
10	CCB-1,CCB,1	1/11/2024 9:23:58 AM	CCB
11	MB-H2O,MBLK,1	1/11/2024 9:39:16 AM	MB
12	LCS-H2O,LCS,1	1/11/2024 9:54:34 AM	LCS, IWST-240105B
13	N062279-001B,SAMP,20	1/11/2024 10:59:27 AM	SAMP,0.5>10mL,
14	N062309-007B,SAMP,10	1/11/2024 11:28:08 AM	SAMP,1>10mL,
15	N062309-008B,SAMP,5	1/11/2024 11:43:25 AM	SAMP,2>10mL,
16	N062312-006B,SAMP,10	1/11/2024 12:14:32 PM	SAMP,1>10mL,
17	N062312-001B,SAMP,10	1/11/2024 12:29:50 PM	SAMP,1>10mL,
18	N062312-002B,SAMP,10	1/11/2024 12:45:08 PM	SAMP,1>10mL,
19	N062312-003B,SAMP,10	1/11/2024 1:00:26 PM	SAMP,1>10mL,
20	N062312-004B,SAMP,10	1/11/2024 1:15:44 PM	SAMP,1>10mL,
21	CCV-2,CCV,1	1/11/2024 1:31:02 PM	CCV, IWST-240105A
22	CCB-2,CCB,1	1/11/2024 1:46:21 PM	CCB
23	N062312-005B,SAMP,10	1/11/2024 2:01:39 PM	SAMP,1>10mL,
24	N062312-007B,SAMP,10	1/11/2024 2:16:58 PM	SAMP,1>10mL,
25	N062312-008B,SAMP,10	1/11/2024 2:32:15 PM	SAMP,1>10mL,
26	N062312-010B,SAMP,10	1/11/2024 2:47:33 PM	SAMP,1>10mL,
27	N062312-011B,SAMP,10	1/11/2024 3:02:51 PM	SAMP,1>10mL,
28	N062312-012B,SAMP,10	1/11/2024 3:18:10 PM	SAMP,1>10mL,
29	N062312-013B,SAMP,10	1/11/2024 3:33:28 PM	SAMP,1>10mL,
30	N062312-014B,SAMP,10	1/11/2024 3:48:46 PM	SAMP,1>10mL,
31	N062312-015B,SAMP,10	1/11/2024 4:04:04 PM	SAMP,1>10mL,
32	N062312-016B,SAMP,10	1/11/2024 4:19:23 PM	SAMP,1>10mL,
33	CCV-3,CCV,1	1/11/2024 4:34:41 PM	CCV, IWST-240105A
34	CCB-3,CCB,1	1/11/2024 4:50:00 PM	CCB
35	N062312-017B,SAMP,10	1/11/2024 5:05:18 PM	SAMP,1>10mL,
36	N062312-018B,SAMP,10	1/11/2024 5:20:36 PM	SAMP,1>10mL,
37	N062312-006BMS,MS,10	1/11/2024 5:35:54 PM	MS,1>10mL,
38	N062312-006BMSD,MSD,10	1/11/2024 5:51:12 PM	MSD,1>10mL,
39	N062309-007B,SAMP,50	1/11/2024 6:06:29 PM	SAMP,0.2>10mL,
40	N062309-007BDUP,DUP,50	1/11/2024 6:21:47 PM	DUP,0.2>10mL,
41	N062309-007BMS,MS,50	1/11/2024 6:37:06 PM	MS,0.2>10mL,

Sequence: IC-08_240111A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062309-007BMSD,MSD,50	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
43	N062309-008BMS,MS,5	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
44	N062309-008BMSD,MSD,5	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
45	CCV-4,CCV,1	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
46	CCB-4,CCB,1	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
47	N062312-006B,SAMP,100	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
48	N062312-006BMS,MS,100	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
49	N062312-006BMSD,MSD,100	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
50	N062312-001B,SAMP,100	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
51	N062312-001BDUP,DUP,100	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
52	N062312-001BMS,MS,100	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
53	N062312-002B,SAMP,100	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
54	N062312-003B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
55	N062312-004B,SAMP,100	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
56	N062312-005B,SAMP,50	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
57	CCV-5,CCV,1	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
58	CCB-5,CCB,1	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
59	N062312-007B,SAMP,50	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
60	N062312-008B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
61	N062312-010B,SAMP,50	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
62	N062312-011B,SAMP,50	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
63	N062312-012B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
64	N062312-013B,SAMP,50	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
65	N062312-014B,SAMP,50	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
66	N062312-015B,SAMP,50	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
67	N062312-016B,SAMP,50	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
68	N062312-017B,SAMP,50	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
69	CCV-6,CCV,1	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
70	CCB-6,CCB,1	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
71	N062312-018B,SAMP,50	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
72	MB-2,MBLK,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
73	LCS-2,LCS,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
74	N062335-002A,SAMP,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
75	N062335-002AMS,MS,1	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished
76	N062335-002AMSD,MSD,1	Unknown	33	1000.0	Anions Default	EPA 300_0_240102	Finished
77	N062333-001A,SAMP,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
78	N062333-001ADUP,DUP,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
79	N062332-001A,SAMP,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
80	N062332-002A,SAMP,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
81	CCV-7,CCV,1	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
82	CCB-7,CCB,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished

Sequence: IC-08_240111A
Operator: IC-05

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Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062309-007BMSD,MSD,50	1/11/2024 6:52:25 PM	MSD,0.2>10mL,
43	N062309-008BMS,MS,5	1/11/2024 7:07:42 PM	MS,2>10mL,
44	N062309-008BMSD,MSD,5	1/11/2024 7:23:00 PM	MSD,2>10mL,
45	CCV-4,CCV,1	1/11/2024 7:38:18 PM	CCV, IWST-240105A
46	CCB-4,CCB,1	1/11/2024 7:53:36 PM	CCB
47	N062312-006B,SAMP,100	1/11/2024 8:08:55 PM	SAMP,0.1>10mL,
48	N062312-006BMS,MS,100	1/11/2024 8:24:12 PM	MS,0.1>10mL,
49	N062312-006BMSD,MSD,100	1/11/2024 8:39:30 PM	MSD,0.1>10mL,
50	N062312-001B,SAMP,100	1/11/2024 8:54:49 PM	SAMP,0.1>10mL,
51	N062312-001BDUP,DUP,100	1/11/2024 9:10:07 PM	DUP,0.1>10mL,
52	N062312-001BMS,MS,100	1/11/2024 9:25:26 PM	MS,0.1>10mL,
53	N062312-002B,SAMP,100	1/11/2024 9:40:45 PM	SAMP,0.1>10mL,
54	N062312-003B,SAMP,50	1/11/2024 9:56:03 PM	SAMP,0.2>10mL,
55	N062312-004B,SAMP,100	1/11/2024 10:11:21 PM	SAMP,0.1>10mL,
56	N062312-005B,SAMP,50	1/11/2024 10:26:39 PM	SAMP,0.2>10mL,
57	CCV-5,CCV,1	1/11/2024 10:41:57 PM	CCV, IWST-240105A
58	CCB-5,CCB,1	1/11/2024 10:57:15 PM	CCB
59	N062312-007B,SAMP,50	1/11/2024 11:12:33 PM	SAMP,0.2>10mL,
60	N062312-008B,SAMP,50	1/11/2024 11:27:52 PM	SAMP,0.2>10mL,
61	N062312-010B,SAMP,50	1/11/2024 11:43:09 PM	SAMP,0.2>10mL,
62	N062312-011B,SAMP,50	1/11/2024 11:58:27 PM	SAMP,0.2>10mL,
63	N062312-012B,SAMP,50	1/12/2024 12:13:45 AM	SAMP,0.2>10mL,
64	N062312-013B,SAMP,50	1/12/2024 12:29:03 AM	SAMP,0.2>10mL,
65	N062312-014B,SAMP,50	1/12/2024 12:44:21 AM	SAMP,0.2>10mL,
66	N062312-015B,SAMP,50	1/12/2024 12:59:39 AM	SAMP,0.2>10mL,
67	N062312-016B,SAMP,50	1/12/2024 1:14:58 AM	SAMP,0.2>10mL,
68	N062312-017B,SAMP,50	1/12/2024 1:30:16 AM	SAMP,0.2>10mL,
69	CCV-6,CCV,1	1/12/2024 1:45:34 AM	CCV, IWST-240105A
70	CCB-6,CCB,1	1/12/2024 2:00:53 AM	CCB
71	N062312-018B,SAMP,50	1/12/2024 2:16:10 AM	SAMP,0.2>10mL,
72	MB-2,MBLK,1	1/12/2024 2:31:29 AM	MB
73	LCS-2,LCS,1	1/12/2024 2:46:47 AM	LCS, IWST-240105B
74	N062335-002A,SAMP,1	1/12/2024 3:02:05 AM	SAMP,10mL,
75	N062335-002AMS,MS,1	1/12/2024 3:17:23 AM	MS,10mL,
76	N062335-002AMSD,MSD,1	1/12/2024 3:32:41 AM	MSD,10mL,
77	N062333-001A,SAMP,1	1/12/2024 3:48:00 AM	SAMP,10mL,
78	N062333-001ADUP,DUP,1	1/12/2024 4:03:18 AM	DUP,10mL,
79	N062332-001A,SAMP,1	1/12/2024 4:18:36 AM	SAMP,10mL,
80	N062332-002A,SAMP,1	1/12/2024 4:33:54 AM	SAMP,10mL,
81	CCV-7,CCV,1	1/12/2024 4:49:12 AM	CCV, IWST-240105A
82	CCB-7,CCB,1	1/12/2024 5:04:30 AM	CCB

Sequence: IC-08_240111A
Operator: IC-05

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Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
83	N062334-001A,SAMP,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
84	N062334-002A,SAMP,1	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished
85	N062335-001A,SAMP,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
86	N062335-003A,SAMP,1	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished
87	CCV-8,CCV,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
88	CCB-8,CCB,1	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished

Sequence: IC-08_240111A
Operator: IC-05

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Printed: 1/12/2024 4:22:20 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 88

Created: 1/10/2024 2:24:20 PM by IC-05
Last Update: 1/11/2024 7:02:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
83	N062334-001A,SAMP,1	1/12/2024 5:19:48 AM	SAMP,10mL,
84	N062334-002A,SAMP,1	1/12/2024 5:35:06 AM	SAMP,10mL,
85	N062335-001A,SAMP,1	1/12/2024 5:50:24 AM	SAMP,10mL,
86	N062335-003A,SAMP,1	1/12/2024 6:05:41 AM	SAMP,10mL,
87	CCV-8,CCV,1	1/12/2024 6:20:59 AM	CCV, IWST-240105A
88	CCB-8,CCB,1	1/12/2024 6:36:17 AM	CCB

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0136	0.0830	0.1675	0.4225	0.8784	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0337	0.2030	0.4063	1.0376	2.1764	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ICV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5618315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.975	0.50	4.000	0	99.4	90	110				
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Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.018	0.50	4.000	0	100	90	110				
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Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.011	0.50	4.000	0	100	90	110				
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Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618323						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.024	0.50	4.000	0	101	90	110				
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Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618325						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.027	0.50	4.000	0	101	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618337							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.035	0.50	4.000	0	101	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618349							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.032	0.50	4.000	0	101	90	110				

Sample ID: CCV-7	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618352							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.983	0.50	4.000	0	99.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ICV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5618270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.258	0.050	1.250	0	101	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.245	0.050	1.250	0	99.6	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618283						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.241	0.050	1.250	0	99.3	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.249	0.050	1.250	0	99.9	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618307						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.246	0.050	1.250	0	99.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.242	0.050	1.250	0	99.4	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618311							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.238	0.050	1.250	0	99.1	90	110				

Sample ID: CCV-7	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCV	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618313							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.239	0.050	1.250	0	99.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ICB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5618316							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618318							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618322							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618324							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618326							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618338	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate ND 0.50

Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618350	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate ND 0.50

Sample ID: CCB-7	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180295
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618353	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: ICB	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5618271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180295						
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0		Analysis Date: 1/11/2024	SeqNo: 5618308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180295							
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/11/2024	SeqNo: 5618310							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-6	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180295							
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618312							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-7	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180295							
Client ID: CCB	Batch ID: R180295	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5618314							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - Calculations are based on raw values

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.880	
CCV-1	Nitrate 6.977	
CCV-2	Nitrate 6.987	
CCV-3	Nitrate 6.983	
CCV-4	Nitrate 6.914	
CCV-5	Nitrate 6.983	
CCV-6	Nitrate 6.950	
CCV-7	Nitrate 6.913	

Average 6.958

Applied RT Window 6.758 - 7.158

MB-R180295_NO3	Nitrate	N.A.	N.A.
LCS-R180295_NO3	Nitrate	6.957	PASS
N062312-006B	Nitrate	N.A.	N.A.
N062312-001B	Nitrate	6.917	PASS
N062312-002B	Nitrate	6.897	PASS
N062312-003B	Nitrate	N.A.	N.A.
N062312-004B	Nitrate	6.973	PASS
N062312-005B	Nitrate	N.A.	N.A.
N062312-007B	Nitrate	6.910	PASS
N062312-008B	Nitrate	6.904	PASS
N062312-010B	Nitrate	N.A.	N.A.
N062312-011B	Nitrate	N.A.	N.A.
N062312-012B	Nitrate	6.930	PASS
N062312-013B	Nitrate	6.780	PASS
N062312-014B	Nitrate	6.887	PASS
N062312-015B	Nitrate	6.923	PASS
N062312-016B	Nitrate	N.A.	N.A.
N062312-017B	Nitrate	N.A.	N.A.
N062312-018B	Nitrate	N.A.	N.A.
N062312-006BMS	Nitrate	6.900	PASS
N062312-006BMSD	Nitrate	6.870	PASS
N062309-007BDUP	Nitrate	6.970	PASS

Reviewed by:

d/Rocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
<u>ICV</u>	Nitrate 6.880	
CCV-1	Nitrate 6.977	
CCV-2	Nitrate 6.987	
CCV-3	Nitrate 6.983	
CCV-4	Nitrate 6.914	
CCV-5	Nitrate 6.983	
CCV-6	Nitrate 6.950	
CCV-7	Nitrate 6.913	

Average 6.958

Applied RT Window 6.758 - 7.158

N062309-007BMS	Nitrate	6.880	PASS
N062309-007BMSD	Nitrate	6.937	PASS
N062309-008BMS	Nitrate	6.903	PASS
N062309-008BMSD	Nitrate	6.930	PASS

Reviewed by:

d/Rocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.610	
CCV-1	Sulfate 10.610	
CCV-2	Sulfate 10.617	
CCV-3	Sulfate 10.623	
CCV-4	Sulfate 10.557	
CCV-5	Sulfate 10.627	
CCV-6	Sulfate 10.594	
CCV-7	Sulfate 10.547	

Average 10.596

Applied RT Window 10.396 - 10.796

MB-R180295_SO4	Sulfate	N.A.	N.A.
LCS-R180295_SO4	Sulfate	10.590	PASS
N062312-006B	Sulfate	10.537	PASS
N062312-006BMS	Sulfate	10.613	PASS
N062312-006BMSD	Sulfate	10.613	PASS
N062312-001B	Sulfate	10.613	PASS
N062312-001BDUP	Sulfate	10.637	PASS
N062312-001BMS	Sulfate	10.517	PASS
N062312-002B	Sulfate	10.633	PASS
N062312-003B	Sulfate	10.587	PASS
N062312-004B	Sulfate	10.640	PASS
N062312-005B	Sulfate	10.607	PASS
N062312-007B	Sulfate	10.537	PASS
N062312-008B	Sulfate	10.514	PASS
N062312-010B	Sulfate	10.604	PASS
N062312-011B	Sulfate	10.650	PASS
N062312-012B	Sulfate	10.517	PASS
N062312-013B	Sulfate	10.610	PASS
N062312-014B	Sulfate	10.634	PASS
N062312-015B	Sulfate	10.507	PASS
N062312-016B	Sulfate	10.510	PASS
N062312-017B	Sulfate	10.547	PASS

Reviewed by:

d/Rocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/11/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.610	
CCV-1	Sulfate	10.610	
CCV-2	Sulfate	10.617	
CCV-3	Sulfate	10.623	
CCV-4	Sulfate	10.557	
CCV-5	Sulfate	10.627	
CCV-6	Sulfate	10.594	
CCV-7	Sulfate	10.547	

Average 10.596

Applied RT Window 10.396 - 10.796

N062312-018B Sulfate 10.603 PASS

Reviewed by:

d/Rocha 1/30/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



ASSET LABORATORIES
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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105991
 ASSET #: N062312

03
 Instrument ID: ICP-02
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

1st set of ICSA2/B2 were reported. See CAR#7334.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 01242024

Date: _____
 Date: _____

SAMPLE CALCULATION



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N062312-003C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.02931 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 29.31$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 29$$

Reviewed by:

d/Recha 1/30/2024

% RSD SUMMARY



ASSET LABORATORIES
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RSD SUMMARY: 240114B

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	5.46	15	PASS
Standard1	ICAL	1	Fe	0.02	1.57	15	PASS
Standard2	ICAL	1	Fe	0.05	0.47	15	PASS
Standard3	ICAL	1	Fe	2	0.36	15	PASS
Standard4	ICAL	1	Fe	5	0.3	15	PASS
Standard5	ICAL	1	Fe	7.5	0.32	15	PASS
Standard6	ICAL	1	Fe	10	0.29	15	PASS
Standard7	ICAL	1	Fe	20	0.09	15	PASS
ICV	ICV	1	Fe	10.12	0.35	15	PASS
ICB	ICB	1	Fe	0	53.74	15	<PQL
LLICV1	CCV1	1	Fe	0.02	1.59	20	PASS
ICSA1	ICSA	1	Fe	174.76	0.12	15	PASS
ICSAB1	ICSAB	1	Fe	174.59	0.04	15	PASS
RINSE	RINSE	1	Fe	0.01	18.64	15	<PQL
CCV1	CCV	1	Fe	10.05	0.31	15	PASS
CCB1	CCB	1	Fe	0.01	11.34	15	PASS
CCV2	CCV	1	Fe	10.13	0.26	15	PASS
CCB2	CCB	1	Fe	0	5.91	15	PASS
CCV3	CCV	1	Fe	10.15	0.58	15	PASS
CCB3	CCB	1	Fe	0	10.68	15	PASS
ICSA2	ICSA	1	Fe	174.04	0.06	15	PASS
ICSAB2	ICSAB	1	Fe	174.73	0.11	15	PASS
ICSA2	ICSA	1	Fe	0.04	3.8	15	PASS
ICSAB2	ICSAB	1	Fe	0.06	0.99	15	PASS
RINSE	RINSE	1	Fe	0	26.86	15	<PQL
CCV4	CCV	1	Fe	10.13	0.13	15	PASS
CCB4	CCB	1	Fe	0	15.68	15	<PQL
CCV5	CCV	1	Fe	10.22	0.31	15	PASS
CCB5	CCB	1	Fe	0	17.46	15	<PQL
MB-105991	MBLK	1	Fe	0	13.56	15	PASS
LCS-105991	LCS	1	Fe	0.09	0.48	15	PASS
N062312-001C	SAMP	1	Fe	0	11.98	15	PASS
N062312-002C	SAMP	1	Fe	0.01	13.61	15	PASS
N062312-003C	SAMP	1	Fe	0.03	9.84	15	PASS
CCV6	CCV	1	Fe	10.19	0.29	15	PASS
CCB6	CCB	1	Fe	0	34.48	15	<PQL
ICSA3	ICSA	1	Fe	174.63	0.07	15	PASS
ICSAB3	ICSAB	1	Fe	175.16	0.08	15	PASS
RINSE	RINSE	1	Fe	0.02	14.5	15	PASS
N062312-004C	SAMP	1	Fe	0.23	0.34	15	PASS
N062312-005C	SAMP	1	Fe	0.07	0.8	15	PASS
N062312-006C	SAMP	1	Fe	0.21	0.27	15	PASS

RSD SUMMARY: 240114B

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N062312-006C	SAMP	5	Fe	0.04	1.37	15	PASS
N062312-006C-PS	PS	1	Fe	0.29	0.5	15	PASS
N062312-006CMS	MS	1	Fe	0.3	0.43	15	PASS
N062312-006CMSD	MSD	1	Fe	0.3	0.7	15	PASS
N062312-007C	SAMP	1	Fe	0.01	5.23	15	PASS
N062312-008C	SAMP	1	Fe	0.03	4.92	15	PASS
CCV7	CCV	1	Fe	10.17	0.14	15	PASS
CCB7	CCB	1	Fe	0	739.65	15	<PQL
N062312-010C	SAMP	1	Fe	0.02	6.56	15	PASS
N062312-011C	SAMP	1	Fe	0.02	9.11	15	PASS
N062312-012C	SAMP	1	Fe	0.04	0.78	15	PASS
N062312-013C	SAMP	1	Fe	0.01	9.59	15	PASS
N062312-014C	SAMP	1	Fe	0.04	3.62	15	PASS
N062312-015C	SAMP	1	Fe	0.05	1.75	15	PASS
N062312-016C	SAMP	1	Fe	0.01	7.34	15	PASS
N062312-017C	SAMP	1	Fe	0.08	2.08	15	PASS
N062312-018C	SAMP	1	Fe	0.3	0.03	15	PASS
CCV8	CCV	1	Fe	10.23	0.12	15	PASS
CCB8	CCB	1	Fe	0	4.94	15	PASS
ICSA4	ICSA	1	Fe	175.13	0.1	15	PASS
ICSAB4	ICSAB	1	Fe	175.65	0.14	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240114B

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/14/2024	02:34:24 PM
2	Standard1	ICAL	1	01/14/2024	02:38:54 PM
3	Standard2	ICAL	1	01/14/2024	02:42:55 PM
4	Standard3	ICAL	1	01/14/2024	02:46:57 PM
5	Standard4	ICAL	1	01/14/2024	02:50:28 PM
6	Standard5	ICAL	1	01/14/2024	02:54:01 PM
7	Standard6	ICAL	1	01/14/2024	02:57:32 PM
8	Standard7	ICAL	1	01/14/2024	03:01:04 PM
310	ICV	ICV	1	01/14/2024	03:04:06 PM
1	ICB	ICB	1	01/14/2024	03:07:43 PM
2	LLICV1	CCV1	1	01/14/2024	03:12:13 PM
9	ICSA1	ICSA	1	01/14/2024	03:16:44 PM
10	ICSAB1	ICSAB	1	01/14/2024	03:21:37 PM
299	RINSE	RINSE	1	01/14/2024	03:26:37 PM
11	MB-105989	MBLK	1	01/14/2024	03:31:13 PM
12	LCS-105989	LCS	1	01/14/2024	03:35:44 PM
13	N062309-001B	SAMP	1	01/14/2024	03:39:46 PM
14	N062309-002D	SAMP	1	01/14/2024	03:44:21 PM
15	N062309-003D	SAMP	1	01/14/2024	03:49:56 PM
16	N062309-004D	SAMP	1	01/14/2024	03:54:30 PM
17	N062309-005D	SAMP	1	01/14/2024	03:58:34 PM
18	N062309-006D	SAMP	1	01/14/2024	04:04:09 PM
19	N062309-007D	SAMP	1	01/14/2024	04:09:45 PM
7	CCV1	CCV	1	01/14/2024	04:14:21 PM
1	CCB1	CCB	1	01/14/2024	04:17:52 PM
20	N062309-007D	SAMP	5	01/14/2024	04:22:23 PM
21	N062309-007D-PS	PS	1	01/14/2024	04:26:27 PM
22	N062309-007DMS	MS	1	01/14/2024	04:32:04 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
23	N062309-007DMSD	MSD	1	01/14/2024	04:37:41 PM
24	N062309-008D	SAMP	1	01/14/2024	04:43:16 PM
25	N062309-008D	SAMP	5	01/14/2024	04:47:49 PM
26	N062309-008D-PS	PS	1	01/14/2024	04:52:21 PM
27	N062309-008DMS	MS	1	01/14/2024	04:56:25 PM
28	N062309-008DMSD	MSD	1	01/14/2024	05:01:00 PM
29	N062309-009D	SAMP	1	01/14/2024	05:05:03 PM
7	CCV2	CCV	1	01/14/2024	05:09:36 PM
1	CCB2	CCB	1	01/14/2024	05:13:08 PM
30	N062309-010D	SAMP	1	01/14/2024	05:17:39 PM
31	N062309-011D	SAMP	1	01/14/2024	05:22:13 PM
32	N062309-012D	SAMP	1	01/14/2024	05:27:51 PM
33	MB-105990	MBLK	1	01/14/2024	05:33:27 PM
34	LCS-105990	LCS	1	01/14/2024	05:38:00 PM
35	N062310-001D	SAMP	1	01/14/2024	05:42:03 PM
36	N062310-002D	SAMP	1	01/14/2024	05:46:40 PM
37	N062310-003D	SAMP	1	01/14/2024	05:51:15 PM
38	N062310-004D	SAMP	1	01/14/2024	05:56:50 PM
39	N062310-005B	SAMP	1	01/14/2024	06:02:25 PM
7	CCV3	CCV	1	01/14/2024	06:08:11 PM
1	CCB3	CCB	1	01/14/2024	06:11:43 PM
9	ICSA2	ICSA	1	01/14/2024	06:16:14 PM
10	ICSAB2	ICSAB	1	01/14/2024	06:21:12 PM
2	ICSA2	ICSA	1	01/14/2024	06:26:12 PM
3	ICSAB2	ICSAB	1	01/14/2024	06:30:13 PM
300	RINSE	RINSE	1	01/14/2024	06:34:15 PM
40	N062310-012B	SAMP	1	01/14/2024	06:38:51 PM
41	N062310-013B	SAMP	1	01/14/2024	06:44:27 PM
42	N062310-014B	SAMP	1	01/14/2024	06:50:05 PM
43	N062310-015D	SAMP	1	01/14/2024	06:55:43 PM
44	N062310-016D	SAMP	1	01/14/2024	07:01:22 PM
45	N062310-016D	SAMP	5	01/14/2024	07:05:58 PM
46	N062310-016D-PS	PS	1	01/14/2024	07:10:01 PM
47	N062310-016DMS	MS	1	01/14/2024	07:15:38 PM
48	N062310-016DMSD	MSD	1	01/14/2024	07:21:13 PM
7	CCV4	CCV	1	01/14/2024	07:26:49 PM
1	CCB4	CCB	1	01/14/2024	07:30:20 PM
49	N062310-017D	SAMP	1	01/14/2024	07:34:51 PM
50	N062310-018D	SAMP	1	01/14/2024	07:40:27 PM
51	N062310-019D	SAMP	1	01/14/2024	07:46:03 PM
52	N062310-019D	SAMP	5	01/14/2024	07:51:39 PM
53	N062310-019D-PS	PS	1	01/14/2024	07:56:12 PM
54	N062310-019DMS	MS	1	01/14/2024	08:01:50 PM
55	N062310-019DMSD	MSD	1	01/14/2024	08:07:28 PM
56	N062310-020D	SAMP	1	01/14/2024	08:13:04 PM
57	N062310-021D	SAMP	1	01/14/2024	08:18:20 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
58	N062310-022D	SAMP	1	01/14/2024	08:22:57 PM
7	CCV5	CCV	1	01/14/2024	08:28:33 PM
1	CCB5	CCB	1	01/14/2024	08:32:05 PM
59	N062310-022D	SAMP	5	01/14/2024	08:36:36 PM
60	N062310-022D-PS	PS	1	01/14/2024	08:40:38 PM
61	N062310-022DMS	MS	1	01/14/2024	08:46:13 PM
62	N062310-022DMSD	MSD	1	01/14/2024	08:51:48 PM
63	N062310-023D	SAMP	1	01/14/2024	08:57:23 PM
64	MB-105991	MBLK	1	01/14/2024	09:02:59 PM
65	LCS-105991	LCS	1	01/14/2024	09:07:30 PM
66	N062312-001C	SAMP	1	01/14/2024	09:11:32 PM
67	N062312-002C	SAMP	1	01/14/2024	09:17:08 PM
68	N062312-003C	SAMP	1	01/14/2024	09:22:41 PM
7	CCV6	CCV	1	01/14/2024	09:28:19 PM
1	CCB6	CCB	1	01/14/2024	09:31:51 PM
9	ICSA3	ICSA	1	01/14/2024	09:36:21 PM
10	ICSAB3	ICSAB	1	01/14/2024	09:41:20 PM
299	RINSE	RINSE	1	01/14/2024	09:46:18 PM
69	N062312-004C	SAMP	1	01/14/2024	09:50:54 PM
70	N062312-005C	SAMP	1	01/14/2024	09:56:34 PM
71	N062312-006C	SAMP	1	01/14/2024	10:02:21 PM
72	N062312-006C	SAMP	5	01/14/2024	10:07:59 PM
73	N062312-006C-PS	PS	1	01/14/2024	10:12:33 PM
74	N062312-006CMS	MS	1	01/14/2024	10:18:08 PM
75	N062312-006CMSD	MSD	1	01/14/2024	10:23:46 PM
76	N062312-007C	SAMP	1	01/14/2024	10:29:24 PM
77	N062312-008C	SAMP	1	01/14/2024	10:35:10 PM
7	CCV7	CCV	1	01/14/2024	10:40:49 PM
1	CCB7	CCB	1	01/14/2024	10:44:20 PM
78	N062312-010C	SAMP	1	01/14/2024	10:48:50 PM
79	N062312-011C	SAMP	1	01/14/2024	10:54:27 PM
80	N062312-012C	SAMP	1	01/14/2024	11:00:05 PM
81	N062312-013C	SAMP	1	01/14/2024	11:05:42 PM
82	N062312-014C	SAMP	1	01/14/2024	11:11:29 PM
83	N062312-015C	SAMP	1	01/14/2024	11:17:08 PM
84	N062312-016C	SAMP	1	01/14/2024	11:22:55 PM
85	N062312-017C	SAMP	1	01/14/2024	11:28:34 PM
86	N062312-018C	SAMP	1	01/14/2024	11:34:09 PM
7	CCV8	CCV	1	01/14/2024	11:39:47 PM
1	CCB8	CCB	1	01/14/2024	11:43:19 PM
9	ICSA4	ICSA	1	01/14/2024	11:47:49 PM
10	ICSAB4	ICSAB	1	01/14/2024	11:52:47 PM

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:51:27 AM

Reviewed/ Date: d/Recha 1/30/2024

Prep End Date: 1/11/2024 4:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 105991 Prep Code:3010_W DISS

Technician: Diane Jetajobe

mL / mL

95 DB-1-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105991	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105991	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062312-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:51:27 AM

Reviewed/ Date: M/Recha 1/30/2024

Page: 2 of 2

Prep End Date: 1/11/2024 4:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105991 Prep Code: 3010_W_DISS

Technician: Diane Jetajobe

mL / mL

95 DB-1-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062312-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



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INITIAL CALIBRATION SUMMARY: 240114B

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/14/2024	02:34:24 PM	Fe	273.952	191	0.00	mg/L	
Standard1	01/14/2024	02:38:54 PM	Fe	273.952	172	0.02	mg/L	
Standard2	01/14/2024	02:42:55 PM	Fe	273.952	477	0.05	mg/L	
Standard3	01/14/2024	02:46:57 PM	Fe	273.952	17715	2.0	mg/L	
Standard4	01/14/2024	02:50:28 PM	Fe	273.952	43760	5.0	mg/L	
Standard5	01/14/2024	02:54:01 PM	Fe	273.952	65316	7.5	mg/L	
Standard6	01/14/2024	02:57:32 PM	Fe	273.952	86570	10.0	mg/L	
Standard7	01/14/2024	03:01:04 PM	Fe	273.952	170272	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5624993						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10117.037	20	10000	0	101	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ZZZZZ	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5624995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	18.968	20	20.00	0	94.8	80	120				

Sample ID CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10048.397	20	10000	0	100	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625019						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10127.165	20	10000	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10149.732	20	10000	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10134.882	20	10000	0	101	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10217.247	20	10000	0	102	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10190.178	20	10000	0	102	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10171.730	20	10000	0	102	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCV	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10228.209	20	10000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5624994						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.808 20

Sample ID CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.675 20

Sample ID CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 4.288 20

Sample ID CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625032						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 4.138 20

Sample ID CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.463 20

Qualifiers:

- B Analyte detected in the associated Method Blank
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625059
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.594	20									
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Sample ID CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625071
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	0.974	20									
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Sample ID CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625084
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	0.070	20									
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Sample ID CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396
Client ID: CCB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625095
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	-3.483086	20									
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Qualifiers:

- | | | |
|---|--|--|
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SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5624996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	558239.598	50	50000	0	112	80	120				
Calcium	467885.303	500	50000	0	93.6	80	120				
Iron	174759.105	20	20000	0	87.4	80	120				
Magnesium	431235.309	100	50000	0	86.2	80	120				

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA B	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5624997						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	564259.688	50	50000	0	113	80	120				
Calcium	468290.890	500	50000	0	93.7	80	120				
Iron	174588.238	20	20000	0	87.3	80	120				
Magnesium	430251.107	100	50000	0	86.1	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	550500.404	50	50000	0	110	80	120				
Calcium	465976.822	500	50000	0	93.2	80	120				
Iron	174042.799	20	20000	0	87.0	80	120				
Magnesium	424893.413	100	50000	0	85.0	80	120				

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA B	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	552086.795	50	50000	0	110	80	120				
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Qualifiers:

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSAB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	470560.419	500	500000	0	94.1	80	120				
Iron	174733.130	20	200000	0	87.4	80	120				
Magnesium	426250.044	100	500000	0	85.3	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625072						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	555514.979	50	500000	0	111	80	120				
Calcium	468980.147	500	500000	0	93.8	80	120				
Iron	174626.888	20	200000	0	87.3	80	120				
Magnesium	426919.767	100	500000	0	85.4	80	120				

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSAB	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625073						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	553932.875	50	500000	0	111	80	120				
Calcium	466976.255	500	500000	0	93.4	80	120				
Iron	175157.661	20	200000	0	87.6	80	120				
Magnesium	425041.934	100	500000	0	85.0	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B		Analysis Date: 1/14/2024	SeqNo: 5625096						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	546360.483	50	500000	0	109	80	120				
Calcium	469446.602	500	500000	0	93.9	80	120				
Iron	175132.845	20	200000	0	87.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B	Analysis Date: 1/14/2024	SeqNo: 5625096							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	426782.503	100	500000	0	85.4	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180396						
Client ID: ICSA	Batch ID: R180396	TestNo: EPA 6010B	Analysis Date: 1/14/2024	SeqNo: 5625097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	548048.135	50	500000	0	110	80	120				
Calcium	471562.224	500	500000	0	94.3	80	120				
Iron	175654.773	20	200000	0	87.8	80	120				
Magnesium	426098.996	100	500000	0	85.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 240114B

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	101.05	65-125	PASS
Standard2	ICAL	1	0.99	99	65-125	PASS
Standard3	ICAL	1	1	99.88	65-125	PASS
Standard4	ICAL	1	0.99	98.97	65-125	PASS
Standard5	ICAL	1	0.99	98.85	65-125	PASS
Standard6	ICAL	1	0.98	98.36	65-125	PASS
Standard7	ICAL	1	0.94	93.83	65-125	PASS
ICV	ICV	1	0.96	96.39	65-125	PASS
ICB	ICB	1	1.01	101.26	65-125	PASS
LLICV1	CCV1	1	1.03	103.19	65-125	PASS
ICSA1	ICSA	1	0.81	80.7	65-125	PASS
ICSAB1	ICSAB	1	0.8	79.86	65-125	PASS
RINSE	RINSE	1	1.02	102.01	65-125	PASS
CCV1	CCV	1	1.02	101.82	65-125	PASS
CCB1	CCB	1	1.05	104.59	65-125	PASS
CCV2	CCV	1	1.03	102.94	65-125	PASS
CCB2	CCB	1	1.06	106.15	65-125	PASS
CCV3	CCV	1	1.03	103.03	65-125	PASS
CCB3	CCB	1	1.05	105.45	65-125	PASS
ICSA2	ICSA	1	0.83	83.14	65-125	PASS
ICSAB2	ICSAB	1	0.82	81.73	65-125	PASS
ICSA2	ICSA	1	1.04	103.94	65-125	PASS
ICSAB2	ICSAB	1	1.05	104.48	65-125	PASS
RINSE	RINSE	1	1.08	107.61	65-125	PASS
CCV4	CCV	1	1.03	103.38	65-125	PASS
CCB4	CCB	1	1.07	107.02	65-125	PASS
CCV5	CCV	1	1.03	102.7	65-125	PASS
CCB5	CCB	1	1.06	106.43	65-125	PASS
MB-105991	MBLK	1	1.08	108.33	65-125	PASS
LCS-105991	LCS	1	0.97	97.28	65-125	PASS
N062312-001C	SAMP	1	0.69	69.43	65-125	PASS
N062312-002C	SAMP	1	0.7	70.27	65-125	PASS
N062312-003C	SAMP	1	0.77	77.03	65-125	PASS
CCV6	CCV	1	1.02	102.45	65-125	PASS
CCB6	CCB	1	1.07	107.2	65-125	PASS
ICSA3	ICSA	1	0.83	82.89	65-125	PASS
ICSAB3	ICSAB	1	0.84	83.96	65-125	PASS
RINSE	RINSE	1	1.07	107.26	65-125	PASS
N062312-004C	SAMP	1	0.74	73.91	65-125	PASS
N062312-005C	SAMP	1	0.77	77.4	65-125	PASS

INTERNAL STANDARD: 240114B

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N062312-006C	SAMP	1	0.74	74.19	65-125	PASS
N062312-006C	SAMP	5	0.88	87.89	65-125	PASS
N062312-006C-PS	PS	1	0.73	73.43	65-125	PASS
N062312-006CMS	MS	1	0.77	77.24	65-125	PASS
N062312-006CMSD	MSD	1	0.77	76.58	65-125	PASS
N062312-007C	SAMP	1	0.77	76.5	65-125	PASS
N062312-008C	SAMP	1	0.72	72.21	65-125	PASS
CCV7	CCV	1	1.02	102.36	65-125	PASS
CCB7	CCB	1	1.06	106.26	65-125	PASS
N062312-010C	SAMP	1	0.76	75.67	65-125	PASS
N062312-011C	SAMP	1	0.78	77.97	65-125	PASS
N062312-012C	SAMP	1	0.77	77.33	65-125	PASS
N062312-013C	SAMP	1	0.77	76.61	65-125	PASS
N062312-014C	SAMP	1	0.76	75.53	65-125	PASS
N062312-015C	SAMP	1	0.74	74.08	65-125	PASS
N062312-016C	SAMP	1	0.77	76.63	65-125	PASS
N062312-017C	SAMP	1	0.77	76.73	65-125	PASS
N062312-018C	SAMP	1	0.76	76.47	65-125	PASS
CCV8	CCV	1	1.01	101.32	65-125	PASS
CCB8	CCB	1	1.07	106.96	65-125	PASS
ICSA4	ICSA	1	0.84	83.7	65-125	PASS
ICSAB4	ICSAB	1	0.84	83.51	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-Metals in Water

Work Order No.: N062312
Test Method: EPA 6010B
Analysis Date: 1/14/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 105991

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062312-006C DT 5x	Iron	Fe	µg/L	210.4066	NA	213.5115	1.45%	10

Reviewed by:

d/Rocha 1/30/2024

Note: NA - Not Applicable

01/28/24 23:19

DT_EPA 6010B_N062312_105991

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID	N062312-006C-PS	SampType:	PS	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:		RunNo:	180396		
Client ID:	ZZZZZZ	Batch ID:	105991	TestNo:	EPA 6010B EPA 3010A	Analysis Date:	1/14/2024	SeqNo:	5625078				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		294.912		20	100.0	213.5	81.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CORRECTIVE ACTION DOCUMENTATION



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Corrective Action Report (CAR)

Date Initiated: 14-Jan-24

Corrective Action Report ID: 7334

Initiated By: Diane Jetajobe

Department: ME-2(ICP)

Corrective Action Description

CAR Summary: ICSA2/ICSAB2 was ran 2X in sequence ICP-03_240114B.

Description of Nonconformance: Two sets of ICSA2/ICSAB2 were analyzed. The second set were additional ICSA/B in the method with different positions. Initial analysis were reported.

Description of Corrective Action: Analyst will be mindful and thoroughly check the ICSA/B position before analyzing.

Performed By:

Completion Date:

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA:

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

LG

QA Date: 25-Jan-24

Lucille Golosinda

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B	Matrix: WATER
Digestion Method: EPA 3010A	Units : ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23	
Analysis Date: 5/7-23/23	
Instrument Name: ICP-03	
Analyst/Technician: Nancy Sibucão / Diane Jetajobe	

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
ASSET #: N062312

Instrument ID: ICPMS-03
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% RSD of As in LLICV failed. However, % rec passed criteria
% RSD of As in N062312-007C/012C/016C/018C failed. For re run
Mn is OLR in N062312-002C/005C/ N062312-006C- PS/MS/ MSD/010C/011C/016C/017C/018C. For dilution
Dilution test for Ba failed. However, PS passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 1/18/2024

Date: —
Date: —



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
 ASSET #: N062312

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/12/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run
 Mn dilution
 % Rec of Mn N062312-006CMS/MSD failed. However, LCS passed criteria
 % RSD of As in N062312-012C/016C/018C failed. For re run
 Dilution test for Mn failed. However, PS passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 1/26/2024

Date: ---
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
 ASSET #: N062312

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: ~~1/12/2024~~
1/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 % RSD of As in LLICV failed. However, % rec passed criteria
 As re run
 % RSD of As in N062312-012C failed. For re run

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 1/26/2024

Date: —
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
ASSET #: N062312

Instrument ID: ICPMS-03
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/17/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run
% RSD of As in LLICV failed. However, % rec passed criteria
% RSD of As in N062312-012C, failed several times. Please see CAR # ~~7356~~ 7357

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer LG 1/26/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 105986
ASSET #: N062312

Instrument ID: ICPMS-03
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/26/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun.
Please see CAR # ~~7356~~ 7358

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 1/28/2024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062312-001C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 29.8424 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 29.8424$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 30$$

Reviewed by:

 2/14/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	10.186	15	PASS	0.05	19.848	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	5.791	15	PASS	0.43	1.314	15	PASS
Std3-5/50 ppb	ICAL	1	4.84	4.231	15	PASS	4.83	2.045	15	PASS
Std4-10/100 ppb	ICAL	1	9.63	1.96	15	PASS	9.52	2.631	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.62	0.858	15	PASS	19.19	0.465	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.44	1.245	15	PASS	39.18	2.124	15	PASS
Std7-100/1000 ppb	ICAL	1	100.18	0.161	15	PASS	98.91	1.255	15	PASS
Std8-200/2000 ppb	ICAL	1	200.09	0.997	15	PASS	200.82	0.572	15	PASS
ICV	ICV	1	9.87	0.355	15	PASS	100.04	0.851	15	PASS
ICV	ICV	1	10.06	2.256	15	PASS	100.73	0.592	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	193.16	15	<PQL
LLICV1	LLICV	1	1.03	4.341	20	PASS	0.51	6.643	20	PASS
LLICV1	LLICV	1	0.98	5.961	20	PASS	0.44	5.874	20	PASS
MLCCV	CCV	1	19.22	1.995	15	PASS	19.41	0.712	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.24	0.616	15	PASS	20.29	1.692	15	PASS
CCV1	CCV	1	19.43	1.287	15	PASS	19.49	1.715	15	PASS
CCB1	CCB	1	0.01	71.641	15	<PQL	0.02	58.326	15	<PQL
CCV2	CCV	1	19.11	1.305	15	PASS	19.26	1.587	15	PASS
CCB2	CCB	1	0	231.969	15	<PQL	0.01	51.24	15	<PQL
CCV3	CCV	1	19.18	1.57	15	PASS	19.33	1.621	15	PASS
CCB3	CCB	1	0.01	71.749	15	<PQL	0.01	173.659	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.99	0.983	15	PASS	20.05	1.448	15	PASS
CCV4	CCV	1	19.3	1.193	15	PASS	19.35	1.737	15	PASS
CCB4	CCB	1	0	277.212	15	<PQL	0.02	110.112	15	<PQL
CCV5	CCV	1	19.14	0.777	15	PASS	19.46	1.08	15	PASS
CCB5	CCB	1	0.01	68.324	15	<PQL	0.02	100.663	15	<PQL
CCV6	CCV	1	19.52	2.486	15	PASS	19.85	1.465	15	PASS
CCB6	CCB	1	0	130.917	15	<PQL	0.01	309.925	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.25	1.222	15	PASS	20.51	0.783	15	PASS
CCV7	CCV	1	19.6	0.798	15	PASS	19.55	2.291	15	PASS
CCB7	CCB	1	0	207.042	15	<PQL	0	183.895	15	<PQL
CCV8	CCV	1	19.7	0.45	15	PASS	19.7	1.274	15	PASS
CCB8	CCB	1	0	117.078	15	<PQL	0.01	104.88	15	<PQL
CCV9	CCV	1	19.81	0.152	15	PASS	19.67	0.597	15	PASS
CCB9	CCB	1	0.01	140.178	15	<PQL	0.01	120.574	15	<PQL
ICSA4	ICSA	1	0	1677.881	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.3	1.011	15	PASS	20.43	1.239	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	19.48	0.967	15	PASS	19.7	1.513	15	PASS
CCB10	CCB	1	0	130.988	15	<PQL	0.02	36.506	15	<PQL
CCV11	CCV	1	19.79	0.862	15	PASS	20.01	1.858	15	PASS
CCB11	CCB	1	0.01	39.356	15	<PQL	0.01	10.978	15	PASS
CCV12	CCV	1	19.75	1.833	15	PASS	19.9	1.871	15	PASS
CCB12	CCB	1	0.01	48.518	15	<PQL	0.01	341.357	15	<PQL
ICSA5	ICSA	1	0	350.273	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.08	1.06	15	PASS	20.78	1.468	15	PASS
MB-105986	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-105986	LCS	1	9.82	1.365	15	PASS	100.71	0.416	15	PASS
N062311-001B	SAMP	1	112.52	1.539	15	PASS	46.95	1.319	15	PASS
CCV13	CCV	1	19.38	1.897	15	PASS	19.99	0.334	15	PASS
CCB13	CCB	1	0	136.515	15	<PQL	0.03	70.508	15	<PQL
N062312-001C	SAMP	1	29.84	1.365	15	PASS	7.88	2.705	15	PASS
N062312-002C	SAMP	1	44.42	1.209	15	PASS	407.01	0.408	15	PASS
N062312-003C	SAMP	1	26.41	1.052	15	PASS	46.71	2.32	15	PASS
N062312-004C	SAMP	1	38.36	0.822	15	PASS	163.41	0.867	15	PASS
N062312-005C	SAMP	1	65.62	1.059	15	PASS	185.59	1.638	15	PASS
N062312-006C	SAMP	1	50.23	0.45	15	PASS	290.09	0.199	15	PASS
N062312-006C	SAMP	5	18.08	2.809	15	PASS	102.53	0.641	15	PASS
N062312-006C-PS	PS	1	60	1.14	15	PASS	385.64	1.023	15	PASS
N062312-006CMS	MS	1	61	1.759	15	PASS	384.46	1.022	15	PASS
CCV14	CCV	1	19.5	1.825	15	PASS	19.66	0.842	15	PASS
CCB14	CCB	1	0.01	201.232	15	<PQL	0.03	22.793	15	<PQL
N062312-006CMSD	MSD	1	59.64	0.798	15	PASS	387.85	2.02	15	PASS
N062312-007C	SAMP	1	144.29	0.941	15	PASS	67.96	0.987	15	PASS
N062312-008C	SAMP	1	75.31	1.168	15	PASS	71.21	0.489	15	PASS
N062312-010C	SAMP	1	117.37	0.325	15	PASS	545.17	0.554	15	PASS
N062312-011C	SAMP	1	123.18	0.893	15	PASS	528.64	0.33	15	PASS
N062312-012C	SAMP	1	26.11	1.225	15	PASS	5.42	2.961	15	PASS
N062312-013C	SAMP	1	134.48	0.941	15	PASS	17.56	1.418	15	PASS
N062312-014C	SAMP	1	42.77	1.148	15	PASS	31.22	1.158	15	PASS
N062312-015C	SAMP	1	74.68	0.745	15	PASS	70.34	0.635	15	PASS
CCV15	CCV	1	19.25	1.156	15	PASS	19.98	2.55	15	PASS
CCB15	CCB	1	0.01	37.157	15	<PQL	0.01	294.985	15	<PQL
N062312-016C	SAMP	1	51.17	1.608	15	PASS	612.96	0.184	15	PASS
N062312-017C	SAMP	1	49.94	0.799	15	PASS	610.75	1.6	15	PASS
N062312-018C	SAMP	1	92.08	0.611	15	PASS	1704.62	1.485	15	PASS
CCV16	CCV	1	19.38	0.886	15	PASS	20.02	1.503	15	PASS
CCB16	CCB	1	0.01	43.061	15	<PQL	0.02	39.359	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB6	ICSAB	1	19.89	1.469	15	PASS	20.95	1.007	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	29.844	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	12.06	15	PASS
Std3-5/50 ppb	ICAL	1	4.68	2.998	15	PASS
Std4-10/100 ppb	ICAL	1	9.54	4.33	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.26	2.717	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.42	0.676	15	PASS
Std7-100/1000 ppb	ICAL	1	97.77	1.439	15	PASS
Std8-200/2000 ppb	ICAL	1	201.53	1.357	15	PASS
ICV	ICV	1	9.74	2.799	15	PASS
ICV	ICV	1	10.11	1.735	15	PASS
ICB	ICB	1	0.02	86.307	15	<PQL
LLICV1	LLICV	1	0.14	21.507	20	NR!
LLICV1	LLICV	1	0.11	29.103	20	NR!
MLCCV	CCV	1	19.28	1.402	15	PASS
ICSA1	ICSA	1	0.02	85.182	15	<PQL
ICSAB1	ICSAB	1	20.36	2.746	15	PASS
CCV1	CCV	1	19.09	0.842	15	PASS
CCB1	CCB	1	0.02	111.383	15	<PQL
CCV2	CCV	1	19.07	2.664	15	PASS
CCB2	CCB	1	0.02	76.048	15	<PQL
CCV3	CCV	1	18.95	0.948	15	PASS
CCB3	CCB	1	0.02	49.809	15	<PQL
ICSA2	ICSA	1	0.01	166.759	15	<PQL
ICSAB2	ICSAB	1	20.19	1.674	15	PASS
CCV4	CCV	1	19.19	2.051	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.2	2.083	15	PASS
CCB5	CCB	1	0.01	98.19	15	<PQL
CCV6	CCV	1	18.89	0.441	15	PASS
CCB6	CCB	1	0.02	30.796	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.61	1.631	15	PASS
CCV7	CCV	1	18.78	2.787	15	PASS
CCB7	CCB	1	0.01	68.461	15	<PQL
CCV8	CCV	1	19.31	1.141	15	PASS
CCB8	CCB	1	0.04	43.657	15	<PQL
CCV9	CCV	1	18.76	3.325	15	PASS
CCB9	CCB	1	0.01	205.289	15	<PQL
ICSA4	ICSA	1	0.02	79.572	15	<PQL
ICSAB4	ICSAB	1	19.64	1.498	15	PASS

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	18.94	2.739	15	PASS
CCB10	CCB	1	0.01	54.859	15	<PQL
CCV11	CCV	1	18.94	4.082	15	PASS
CCB11	CCB	1	0.01	71.648	15	<PQL
CCV12	CCV	1	18.83	0.475	15	PASS
CCB12	CCB	1	0.02	177.849	15	<PQL
ICSA5	ICSA	1	0.01	180.871	15	<PQL
ICSAB5	ICSAB	1	20.12	1.691	15	PASS
MB-105986	MBLK	1	0	374.724	15	<PQL
LCS-105986	LCS	1	9.77	1.002	15	PASS
N062311-001B	SAMP	1	0.33	12.476	15	PASS
CCV13	CCV	1	19.07	1.651	15	PASS
CCB13	CCB	1	0.01	187.852	15	<PQL
N062312-001C	SAMP	1	<0.000	N/A	15	<PQL
N062312-002C	SAMP	1	<0.000	N/A	15	<PQL
N062312-003C	SAMP	1	<0.000	N/A	15	<PQL
N062312-004C	SAMP	1	<0.000	N/A	15	<PQL
N062312-005C	SAMP	1	<0.000	N/A	15	<PQL
N062312-006C	SAMP	1	<0.000	N/A	15	<PQL
N062312-006C	SAMP	5	<0.000	N/A	15	<PQL
N062312-006C-PS	PS	1	8.98	2.5	15	PASS
N062312-006CMS	MS	1	9.21	6.757	15	PASS
CCV14	CCV	1	19	2.241	15	PASS
CCB14	CCB	1	0.01	132.104	15	<PQL
N062312-006CMSD	MSD	1	9.23	5.719	15	PASS
N062312-007C	SAMP	1	0.41	22.302	15	NR!
N062312-008C	SAMP	1	<0.000	N/A	15	<PQL
N062312-010C	SAMP	1	<0.000	N/A	15	<PQL
N062312-011C	SAMP	1	<0.000	N/A	15	<PQL
N062312-012C	SAMP	1	0.73	35.325	15	NR!
N062312-013C	SAMP	1	<0.000	N/A	15	<PQL
N062312-014C	SAMP	1	<0.000	N/A	15	<PQL
N062312-015C	SAMP	1	<0.000	N/A	15	<PQL
CCV15	CCV	1	18.67	2.427	15	PASS
CCB15	CCB	1	0.02	53.472	15	<PQL
N062312-016C	SAMP	1	0.32	22.066	15	NR!
N062312-017C	SAMP	1	0.99	13.844	15	PASS
N062312-018C	SAMP	1	0.59	30.45	15	NR!
CCV16	CCV	1	18.81	3.174	15	PASS
CCB16	CCB	1	0.03	35.51	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSAB6	ICSAB	1	19.79	2.763	15	PASS

PERCENT RSD SUMMARY: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.04	70.027	15	<PQL	0.08	26.925	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.4	17.202	15	<PQL	0.47	14.714	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	4.63	15	PASS	4.74	2.896	15	PASS
Std4-10/100 ppb	ICAL	1	9.47	1.179	15	PASS	9.27	4.812	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.8	2.573	15	PASS	19.33	4.402	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.07	2.537	15	PASS	38.69	0.071	15	PASS
Std7-100/1000 ppb	ICAL	1	99.27	1.275	15	PASS	98.01	1.05	15	PASS
Std8-200/2000 ppb	ICAL	1	200.4	0.012	15	PASS	201.37	1.334	15	PASS
ICV	ICV	1	101.75	1.281	15	PASS	10.12	3.367	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	281.853	15	<PQL
LLICV1	LLICV	1	0.49	5.531	20	PASS	0.11	17.088	20	PASS
MLCCV	CCV	1	19.34	2.484	15	PASS	19.01	2.057	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0	793.315	15	<PQL
ICSAB1	ICSAB	1	20.43	3.037	15	PASS	19.79	1.933	15	PASS
CCV1	CCV	1	19.97	0.674	15	PASS	19.34	0.485	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	107.083	15	<PQL
CCV2	CCV	1	19.96	1.046	15	PASS	18.82	3.318	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0	224.84	15	<PQL
ICSAB2	ICSAB	1	20.63	1.351	15	PASS	19.91	0.601	15	PASS
CCV3	CCV	1	20.1	0.699	15	PASS	19.39	4.539	15	PASS
CCB3	CCB	1	0.02	196.613	15	<PQL	0.02	204.836	15	<PQL
CCV4	CCV	1	20.02	0.841	15	PASS	19.12	2.681	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	124.378	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.01	143.491	15	<PQL
ICSAB3	ICSAB	1	20.23	1.203	15	PASS	19.79	1.83	15	PASS
CCV5	CCV	1	20.29	1.588	15	PASS	18.72	2.976	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.56	1.775	15	PASS	18.62	2.891	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.01	202.948	15	<PQL
CCV7	CCV	1	20.3	2.264	15	PASS	18.72	3.858	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.01	86.904	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	21.01	1.4	15	PASS	20.54	1.063	15	PASS
CCV8	CCV	1	20.41	0.174	15	PASS	19.23	3.967	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0	533.75	15	<PQL
CCV9	CCV	1	20.63	0.841	15	PASS	19.31	3.139	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0	1660.992	15	<PQL
ICSAB5	ICSAB	1	21.13	1.755	15	PASS	19.42	2.657	15	PASS

PERCENT RSD SUMMARY: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062312-002C	SAMP	10	45.39	0.809	15	PASS	0.02	300.785	15	<PQL
N062312-005C	SAMP	10	22.85	0.874	15	PASS	0.01	285.977	15	<PQL
N062312-006C	SAMP	10	45.63	1.071	15	PASS	<0.000	N/A	15	<PQL
N062312-006C	SAMP	50	5.05	2.361	15	PASS	<0.000	N/A	15	<PQL
N062312-006C-PS	PS	10	132.71	0.522	15	PASS	9.8	3.971	15	PASS
N062312-006CMS	MS	10	43.07	1.01	15	PASS	0.95	6.085	15	PASS
N062312-006CMSD	MSD	10	43.64	1.883	15	PASS	0.88	6.051	15	PASS
N062312-010C	SAMP	10	65.69	0.362	15	PASS	<0.000	N/A	15	<PQL
CCV10	CCV	1	20.62	0.232	15	PASS	18.68	0.829	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062312-011C	SAMP	10	59.63	0.177	15	PASS	<0.000	N/A	15	<PQL
N062312-012C	SAMP	1	5.45	1.181	15	PASS	0.6	18.335	15	NR!
N062312-016C	SAMP	1	625.42	0.742	15	PASS	0.28	101.923	15	NR!
N062312-016C	SAMP	10	69.06	0.427	15	PASS	<0.000	N/A	15	<PQL
N062312-017C	SAMP	10	77.61	1.7	15	PASS	0.06	132.709	15	<PQL
N062312-018C	SAMP	10	193.44	1.983	15	PASS	0.07	105.21	15	<PQL
N062312-018C	SAMP	100	20.36	2.084	15	PASS	<0.000	N/A	15	<PQL
CCV11	CCV	1	20.44	2.06	15	PASS	18.85	6.25	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.08	1.25	15	PASS	19.6	2.338	15	PASS
CCV12	CCV	1	20.9	1.517	15	PASS	18.65	1.442	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV13	CCV	1	20.55	1.292	15	PASS	19.05	1.67	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	21.06	1.615	15	PASS	19.28	3.467	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	21.72	1.309	15	PASS	19.86	2.587	15	PASS
CCV15	CCV	1	20.66	1.694	15	PASS	19.46	3.663	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV16	CCV	1	21.33	1.238	15	PASS	18.76	4.049	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	0	209.983	15	<PQL
CCV17	CCV	1	20.89	1.184	15	PASS	18.81	1.107	15	PASS
CCB17	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA8	ICSA	1	<0.000	N/A	15	<PQL	0.02	201.356	15	<PQL
ICSAB8	ICSAB	1	21.49	2.042	15	PASS	19.34	2.993	15	PASS
CCV18	CCV	1	21.07	1.107	15	PASS	18.64	3.545	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL	0.01	142.83	15	<PQL
N062312-012C	SAMP	1	5.7	1.872	15	PASS	0.98	36.863	15	NR!
N062312-016C	SAMP	1	638.54	0.599	15	PASS	0.35	67.613	15	NR!

PERCENT RSD SUMMARY: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062312-012C	SAMP	1	5.5	1.875	15	PASS	0.94	22.187	15	NR!
N062312-016C	SAMP	1	645.62	1.205	15	PASS	0.39	92.585	15	NR!
CCV19	CCV	1	21.25	1.634	15	PASS	18.98	1.567	15	PASS
CCB19	CCB	1	<0.000	N/A	15	<PQL	0.01	148.126	15	<PQL
ICSA9	ICSA	1	<0.000	N/A	15	<PQL	0	139.412	15	<PQL
ICSAB9	ICSAB	1	21.4	1.656	15	PASS	19.4	4.198	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	17.755	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	5.178	15	PASS
Std3-5/50 ppb	ICAL	1	4.78	3.371	15	PASS
Std4-10/100 ppb	ICAL	1	9.61	3.111	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	1.397	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.7	2.225	15	PASS
Std7-100/1000 ppb	ICAL	1	98.25	1.251	15	PASS
Std8-200/2000 ppb	ICAL	1	201	1.135	15	PASS
ICV	ICV	1	10.02	2.362	15	PASS
ICB	ICB	1	0.02	108.234	15	<PQL
LLICV1	CCV1	1	0.12	38.706	20	FAIL
MLCCV	CCV	1	19.55	2.31	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.88	0.647	15	PASS
CCV1	CCV	1	19.3	1.384	15	PASS
CCB1	CCB	1	0.01	156.204	15	<PQL
CCV2	CCV	1	19.53	3.422	15	PASS
CCB2	CCB	1	0.01	129.706	15	<PQL
CCV3	CCV	1	19	0.173	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	190.311	15	<PQL
ICSAB2	ICSAB	1	19.58	1.984	15	PASS
CCV4	CCV	1	19.64	4.092	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.15	1.639	15	PASS
CCB5	CCB	1	0.02	132.814	15	<PQL
CCV6	CCV	1	19.67	0.626	15	PASS
CCB6	CCB	1	0.01	218.589	15	<PQL
ICSA3	ICSA	1	0	841.677	15	<PQL
ICSAB3	ICSAB	1	19.7	1.601	15	PASS
N062312-012C	SAMP	1	0.2	95.602	15	NR!
CCV7	CCV	1	19.14	3.308	15	PASS
CCB7	CCB	1	0.01	76.426	15	<PQL
N062312-012C	SAMP	1	0.13	139.062	15	NR!
N062312-016C	SAMP	1	<0.000	N/A	15	<PQL
N062312-016C	SAMP	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.7	2.769	15	PASS
CCB8	CCB	1	0.03	40.803	15	<PQL
CCV9	CCV	1	19.22	1.114	15	PASS
CCB9	CCB	1	0	349.455	15	<PQL

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.69	2.321	15	PASS
CCV10	CCV	1	19.19	1.754	15	PASS
CCB10	CCB	1	0	177.035	15	<PQL
CCV11	CCV	1	19.25	1.215	15	PASS
CCB11	CCB	1	0.03	41.607	15	<PQL
ICSA5	ICSA	1	0	454.596	15	<PQL
ICSAB5	ICSAB	1	19.95	1.667	15	PASS

PERCENT RSD SUMMARY: 240117A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.06	68.053	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.44	18.972	15	FAIL
Std3-5/50 ppb	ICAL	1	4.73	1.108	15	PASS
Std4-10/100 ppb	ICAL	1	9.59	0.902	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.78	3.557	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.03	1.88	15	PASS
Std7-100/1000 ppb	ICAL	1	99.02	0.665	15	PASS
Std8-200/2000 ppb	ICAL	1	200.73	1.665	15	PASS
ICV	ICV	1	10.16	3.699	15	PASS
ICB	ICB	1	0.01	147.335	15	<PQL
LLICV1	LLICV	1	0.1	21.664	20	NR!
MLCCV	CCV	1	19.34	0.691	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.83	1.077	15	PASS
N062312-007C	SAMP	1	0.22	57.927	15	NR!
N062312-012C	SAMP	1	0.21	16.855	15	NR!
N062312-018C	SAMP	1	0	3625.947	15	<PQL
N062312-007C	SAMP	1	0.17	86.598	15	NR!
N062312-012C	SAMP	1	0	46831.889	15	<PQL
N062312-007C	SAMP	1	<0.000	N/A	15	<PQL
CCV1	CCV	1	20.16	0.538	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.52	0.943	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.4	2.731	15	PASS
CCB3	CCB	1	0.02	71.05	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.76	3.71	15	PASS
CCV4	CCV	1	19.81	1.411	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.62	3.693	15	PASS
CCB5	CCB	1	0	1024.1	15	<PQL
ICSA3	ICSA	1	0	205.817	15	<PQL
ICSAB3	ICSAB	1	20.67	1.817	15	PASS
CCV6	CCV	1	19.64	4.109	15	PASS
CCB6	CCB	1	0	487.555	15	<PQL
CCV7	CCV	1	19.85	2.366	15	PASS
CCB7	CCB	1	0.01	54.603	15	<PQL
CCV8	CCV	1	19.82	4.02	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240117A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.35	3.405	15	PASS
CCV9	CCV	1	19.87	1.838	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.72	1.469	15	PASS
CCB10	CCB	1	0.01	54.334	15	<PQL
ICSA5	ICSA	1	0.02	95.079	15	<PQL
ICSAB5	ICSAB	1	19.87	3.208	15	PASS
CCV11	CCV	1	20.02	0.042	15	PASS
CCB11	CCB	1	0	439.352	15	<PQL
CCV12	CCV	1	19.98	2.48	15	PASS
CCB12	CCB	1	0.01	52.589	15	<PQL
ICSA6	ICSA	1	0	252.94	15	<PQL
ICSAB6	ICSAB	1	20.06	2.505	15	PASS
CCV13	CCV	1	19.93	0.96	15	PASS
CCB13	CCB	1	0	302.629	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	19.98	2.956	15	PASS

PERCENT RSD SUMMARY: 240126A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	10.362	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.42	19.101	15	FAIL
Std3-5/50 ppb	ICAL	1	4.59	11.896	15	PASS
Std4-10/100 ppb	ICAL	1	9.53	2.289	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.97	1.359	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.99	2.082	15	PASS
Std7-100/1000 ppb	ICAL	1	99.34	1.979	15	PASS
Std8-200/2000 ppb	ICAL	1	200.37	1.284	15	PASS
ICV	ICV	1	10.61	2.499	15	PASS
ICB	ICB	1	0	631.96	15	<PQL
LLICV1	CCV1	1	0.13	21.655	20	FAIL
LLICV1	CCV1	1	0.09	42.982	20	<PQL
MLCCV	CCV	1	19.8	2.054	15	PASS
ICSA1	ICSA	1	0	1007.751	15	<PQL
ICSAB1	ICSAB	1	20.45	0.877	15	PASS
N062312-018C	SAMP	1	0.21	87.473	15	NR!
N062312-018C	SAMP	1	0.2	68.755	15	NR!
N062312-018C	SAMP	1	0.07	159.112	15	<PQL
N062312-018C	SAMP	1	0.27	95.486	15	NR!
N062312-018C	SAMP	1	0.62	27.389	15	NR!
N062312-018C	SAMP	1	0.39	35.965	15	NR!
N062312-018C	SAMP	1	0.26	81.862	15	NR!
N062312-018C	SAMP	1	0.36	50.751	15	NR!
N062312-018C	SAMP	1	0.3	25.28	15	NR!
CCV1	CCV	1	19.54	2.125	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.65	4.138	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.88	3.109	15	PASS
CCB3	CCB	1	0.01	220.514	15	<PQL
ICSA2	ICSA	1	0	217.358	15	<PQL
ICSAB2	ICSAB	1	19.9	0.695	15	PASS
CCV4	CCV	1	19.78	2.151	15	PASS
CCB4	CCB	1	0.01	157.091	15	<PQL
CCV5	CCV	1	19.68	1.767	15	PASS
CCB5	CCB	1	0.02	107.32	15	<PQL
ICSA3	ICSA	1	0.01	213.465	15	<PQL
ICSAB3	ICSAB	1	20.53	3.479	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

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INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111001.d	RINSE	ICAL	1	01/11/24 1:07 PM
A0111002.d	RINSE	ICAL	1	01/11/24 1:12 PM
A0111003.d	Cal Blk	IBLK	1	01/11/24 1:17 PM
A0111004.d	Std1-0.1/1 ppb	ICAL	1	01/11/24 1:21 PM
A0111005.d	Std2-0.5/5 ppb	ICAL	1	01/11/24 1:26 PM
A0111006.d	Std3-5/50 ppb	ICAL	1	01/11/24 1:31 PM
A0111007.d	Std4-10/100 ppb	ICAL	1	01/11/24 1:36 PM
A0111008.d	Std5-4.0/20/200 ppb	ICAL	1	01/11/24 1:40 PM
A0111009.d	Std6-8.0/40/400 ppb	ICAL	1	01/11/24 1:45 PM
A0111010.d	Std7-100/1000 ppb	ICAL	1	01/11/24 1:50 PM
A0111011.d	Std8-200/2000 ppb	ICAL	1	01/11/24 1:55 PM
A0111012.d	ICV	ICV	1	01/11/24 2:12 PM
A0111013.d	ICV	ICV	1	01/11/24 2:16 PM
A0111014.d	ICB	ICB	1	01/11/24 2:21 PM
A0111015.d	LLICV1	LLICV	1	01/11/24 2:26 PM
A0111016.d	LLICV1	LLICV	1	01/11/24 2:31 PM
A0111017.d	MLCCV	CCV	1	01/11/24 2:38 PM
A0111018.d	ICSA1	ICSA	1	01/11/24 2:42 PM
A0111019.d	ICSAB1	ICSAB	1	01/11/24 2:47 PM
A0111020.d	N062244-003D	SAMP	10	01/11/24 2:52 PM
A0111021.d	N062244-003D	SAMP	50	01/11/24 2:56 PM
A0111022.d	N062244-003D-PS	PS	10	01/11/24 3:01 PM
A0111023.d	N062244-003D-MS	MS	10	01/11/24 3:06 PM
A0111024.d	N062244-003D-MSD	MSD	10	01/11/24 3:10 PM
A0111025.d	N062245-001D	SAMP	10	01/11/24 3:15 PM
A0111026.d	N062245-002D	SAMP	10	01/11/24 3:20 PM
A0111027.d	N062245-003D	SAMP	10	01/11/24 3:24 PM
A0111028.d	N062245-006D	SAMP	10	01/11/24 3:29 PM
A0111029.d	CCV1	CCV	1	01/11/24 3:33 PM
A0111030.d	CCB1	CCB	1	01/11/24 3:38 PM
A0111031.d	N062245-009D	SAMP	1	01/11/24 3:43 PM
A0111032.d	N062245-010D	SAMP	1	01/11/24 3:47 PM
A0111033.d	N062245-012D	SAMP	1	01/11/24 3:52 PM
A0111034.d	N062243-002E	SAMP	1	01/11/24 3:57 PM
A0111035.d	N062241-004C	SAMP	1	01/11/24 4:01 PM
A0111036.d	N062241-006C	SAMP	10	01/11/24 4:06 PM
A0111037.d	N062239-001C	SAMP	100	01/11/24 4:11 PM
A0111038.d	N062239-001C	SAMP	500	01/11/24 4:15 PM
A0111039.d	N062239-001C-PS	PS	100	01/11/24 4:20 PM
A0111040.d	N062239-001C-MS	MS	100	01/11/24 4:25 PM
A0111041.d	CCV2	CCV	1	01/11/24 4:29 PM
A0111042.d	CCB2	CCB	1	01/11/24 4:34 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111043.d	N062239-001C-MSD	MSD	100	01/11/24 4:38 PM
A0111044.d	N062245-006D	SAMP	100	01/11/24 4:43 PM
A0111045.d	N062245-009D	SAMP	1	01/11/24 4:48 PM
A0111046.d	N062245-010D	SAMP	1	01/11/24 4:52 PM
A0111047.d	N062245-010D	SAMP	1	01/11/24 4:57 PM
A0111048.d	N062245-010D	SAMP	1	01/11/24 5:02 PM
A0111049.d	N062245-010D	SAMP	1	01/11/24 5:06 PM
A0111050.d	CCV3	CCV	1	01/11/24 5:11 PM
A0111051.d	CCB3	CCB	1	01/11/24 5:16 PM
A0111052.d	ICSA2	ICSA	1	01/11/24 5:20 PM
A0111053.d	ICSAB2	ICSAB	1	01/11/24 5:25 PM
A0111054.d	N062274-001B	SAMP	10	01/11/24 5:30 PM
A0111055.d	N062274-002B	SAMP	10	01/11/24 5:34 PM
A0111056.d	N062274-003B	SAMP	10	01/11/24 5:39 PM
A0111057.d	N062278-002D	SAMP	1	01/11/24 5:44 PM
A0111058.d	N062278-002D	SAMP	100	01/11/24 5:48 PM
A0111059.d	N062278-002D	SAMP	500	01/11/24 5:53 PM
A0111060.d	N062278-002D-PS	PS	100	01/11/24 5:58 PM
A0111061.d	N062278-002D-MS	MS	100	01/11/24 6:02 PM
A0111062.d	N062278-002D-MSD	MSD	100	01/11/24 6:07 PM
A0111063.d	N062278-003D	SAMP	100	01/11/24 6:11 PM
A0111064.d	CCV4	CCV	1	01/11/24 6:16 PM
A0111065.d	CCB4	CCB	1	01/11/24 6:21 PM
A0111066.d	N062278-004D	SAMP	10	01/11/24 6:25 PM
A0111067.d	N062278-005D	SAMP	100	01/11/24 6:30 PM
A0111068.d	N062278-008D	SAMP	10	01/11/24 6:35 PM
A0111069.d	N062278-009D	SAMP	100	01/11/24 6:39 PM
A0111070.d	N062278-011D	SAMP	1	01/11/24 6:44 PM
A0111071.d	N062279-023D	SAMP	1	01/11/24 6:49 PM
A0111072.d	N062279-005D	SAMP	10	01/11/24 6:53 PM
A0111073.d	N062279-006D	SAMP	10	01/11/24 6:58 PM
A0111074.d	N062279-008D	SAMP	1	01/11/24 7:03 PM
A0111075.d	N062279-008D	SAMP	10	01/11/24 7:07 PM
A0111076.d	CCV5	CCV	1	01/11/24 7:12 PM
A0111077.d	CCB5	CCB	1	01/11/24 7:17 PM
A0111078.d	N062272-002C	SAMP	10	01/11/24 7:21 PM
A0111079.d	N062272-007C	SAMP	10	01/11/24 7:26 PM
A0111080.d	N062272-008C	SAMP	10	01/11/24 7:31 PM
A0111081.d	N062272-015C	SAMP	1	01/11/24 7:35 PM
A0111082.d	N062272-018C	SAMP	1	01/11/24 7:40 PM
A0111083.d	N062272-019C	SAMP	10	01/11/24 7:45 PM
A0111084.d	N062279-023D	SAMP	1	01/11/24 7:51 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111085.d	N062272-015C	SAMP	1	01/11/24 7:55 PM
A0111086.d	N062272-018C	SAMP	1	01/11/24 8:00 PM
A0111087.d	RINSE	ICAL	1	01/11/24 8:05 PM
A0111088.d	CCV6	CCV	1	01/11/24 8:09 PM
A0111089.d	CCB6	CCB	1	01/11/24 8:14 PM
A0111090.d	ICSA3	ICSA	1	01/11/24 8:19 PM
A0111091.d	ICSAB3	ICSAB	1	01/11/24 8:23 PM
A0111092.d	MB-105984	MBLK	1	01/11/24 8:28 PM
A0111093.d	LCS-105984	LCS	1	01/11/24 8:33 PM
A0111094.d	N062307-001B	SAMP	1	01/11/24 8:37 PM
A0111095.d	N062309-001B	SAMP	1	01/11/24 8:42 PM
A0111096.d	N062309-002D	SAMP	1	01/11/24 8:46 PM
A0111097.d	N062309-003D	SAMP	1	01/11/24 8:51 PM
A0111098.d	N062309-004D	SAMP	1	01/11/24 8:56 PM
A0111099.d	N062309-005D	SAMP	1	01/11/24 9:00 PM
A0111100.d	N062309-006D	SAMP	1	01/11/24 9:05 PM
A0111101.d	RINSE	ICAL	1	01/11/24 9:10 PM
A0111102.d	CCV7	CCV	1	01/11/24 9:14 PM
A0111103.d	CCB7	CCB	1	01/11/24 9:19 PM
A0111104.d	N062309-007D	SAMP	1	01/11/24 9:24 PM
A0111105.d	N062309-007D	SAMP	5	01/11/24 9:28 PM
A0111106.d	N062309-007D-PS	PS	1	01/11/24 9:33 PM
A0111107.d	N062309-007DMS	MS	1	01/11/24 9:38 PM
A0111108.d	N062309-007DMSD	MSD	1	01/11/24 9:42 PM
A0111109.d	N062309-008D	SAMP	1	01/11/24 9:47 PM
A0111110.d	N062309-008D	SAMP	5	01/11/24 9:51 PM
A0111111.d	N062309-008D-PS	PS	1	01/11/24 9:56 PM
A0111112.d	N062309-008DMS	MS	1	01/11/24 10:01 PM
A0111113.d	RINSE	ICAL	1	01/11/24 10:05 PM
A0111114.d	CCV8	CCV	1	01/11/24 10:10 PM
A0111115.d	CCB8	CCB	1	01/11/24 10:15 PM
A0111116.d	N062309-008DMSD	MSD	1	01/11/24 10:19 PM
A0111117.d	N062309-009D	SAMP	1	01/11/24 10:24 PM
A0111118.d	N062309-010D	SAMP	1	01/11/24 10:29 PM
A0111119.d	N062309-011D	SAMP	1	01/11/24 10:33 PM
A0111120.d	N062309-012D	SAMP	1	01/11/24 10:38 PM
A0111121.d	N062310-001D	SAMP	1	01/11/24 10:43 PM
A0111122.d	N062310-002D	SAMP	1	01/11/24 10:47 PM
A0111123.d	N062310-003D	SAMP	1	01/11/24 10:52 PM
A0111124.d	N062310-004D	SAMP	1	01/11/24 10:57 PM
A0111125.d	RINSE	ICAL	1	01/11/24 11:01 PM
A0111126.d	CCV9	CCV	1	01/11/24 11:06 PM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111127.d	CCB9	CCB	1	01/11/24 11:11 PM
A0111128.d	ICSA4	ICSA	1	01/11/24 11:15 PM
A0111129.d	ICSAB4	ICSAB	1	01/11/24 11:20 PM
A0111130.d	N062310-005B	SAMP	1	01/11/24 11:24 PM
A0111131.d	N062310-006B	SAMP	1	01/11/24 11:29 PM
A0111132.d	N062310-007B	SAMP	1	01/11/24 11:34 PM
A0111133.d	MB-105985	MBLK	1	01/11/24 11:38 PM
A0111134.d	LCS-105985	LCS	1	01/11/24 11:43 PM
A0111135.d	N062310-008D	SAMP	1	01/11/24 11:48 PM
A0111136.d	N062310-009B	SAMP	1	01/11/24 11:52 PM
A0111137.d	N062310-010B	SAMP	1	01/11/24 11:57 PM
A0111138.d	N062310-011B	SAMP	1	01/12/24 12:02 AM
A0111139.d	RINSE	ICAL	1	01/12/24 12:06 AM
A0111140.d	CCV10	CCV	1	01/12/24 12:11 AM
A0111141.d	CCB10	CCB	1	01/12/24 12:16 AM
A0111142.d	N062310-012B	SAMP	1	01/12/24 12:20 AM
A0111143.d	N062310-013B	SAMP	1	01/12/24 12:25 AM
A0111144.d	N062310-014B	SAMP	1	01/12/24 12:30 AM
A0111145.d	N062310-015D	SAMP	1	01/12/24 12:34 AM
A0111146.d	N062310-016D	SAMP	1	01/12/24 12:39 AM
A0111147.d	N062310-016D	SAMP	5	01/12/24 12:44 AM
A0111148.d	N062310-016D-PS	PS	1	01/12/24 12:48 AM
A0111149.d	N062310-016DMS	MS	1	01/12/24 12:53 AM
A0111150.d	N062310-016DMSD	MSD	1	01/12/24 12:58 AM
A0111151.d	RINSE	ICAL	1	01/12/24 1:02 AM
A0111152.d	CCV11	CCV	1	01/12/24 1:07 AM
A0111153.d	CCB11	CCB	1	01/12/24 1:12 AM
A0111154.d	N062310-017D	SAMP	1	01/12/24 1:16 AM
A0111155.d	N062310-018D	SAMP	1	01/12/24 1:21 AM
A0111156.d	N062310-019D	SAMP	1	01/12/24 1:25 AM
A0111157.d	N062310-019D	SAMP	5	01/12/24 1:30 AM
A0111158.d	N062310-019D-PS	PS	1	01/12/24 1:35 AM
A0111159.d	N062310-019DMS	MS	1	01/12/24 1:39 AM
A0111160.d	N062310-019DMSD	MSD	1	01/12/24 1:44 AM
A0111161.d	N062310-020D	SAMP	1	01/12/24 1:49 AM
A0111162.d	N062310-021D	SAMP	1	01/12/24 1:53 AM
A0111163.d	RINSE	ICAL	1	01/12/24 1:58 AM
A0111164.d	CCV12	CCV	1	01/12/24 2:03 AM
A0111165.d	CCB12	CCB	1	01/12/24 2:07 AM
A0111166.d	ICSA5	ICSA	1	01/12/24 2:12 AM
A0111167.d	ICSAB5	ICSAB	1	01/12/24 2:17 AM
A0111168.d	N062310-022D	SAMP	1	01/12/24 2:21 AM

INJECTION LOG: 240111A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111169.d	N062310-022D	SAMP	5	01/12/24 2:26 AM
A0111170.d	N062310-022D-PS	PS	1	01/12/24 2:31 AM
A0111171.d	N062310-022DMS	MS	1	01/12/24 2:35 AM
A0111172.d	N062310-022DMSD	MSD	1	01/12/24 2:40 AM
A0111173.d	N062310-023D	SAMP	1	01/12/24 2:45 AM
A0111174.d	MB-105986	MBLK	1	01/12/24 2:49 AM
A0111175.d	LCS-105986	LCS	1	01/12/24 2:54 AM
A0111176.d	N062311-001B	SAMP	1	01/12/24 2:59 AM
A0111177.d	RINSE	ICAL	1	01/12/24 3:03 AM
A0111178.d	CCV13	CCV	1	01/12/24 3:08 AM
A0111179.d	CCB13	CCB	1	01/12/24 3:13 AM
A0111180.d	N062312-001C	SAMP	1	01/12/24 3:17 AM
A0111181.d	N062312-002C	SAMP	1	01/12/24 3:22 AM
A0111182.d	N062312-003C	SAMP	1	01/12/24 3:27 AM
A0111183.d	N062312-004C	SAMP	1	01/12/24 3:31 AM
A0111184.d	N062312-005C	SAMP	1	01/12/24 3:36 AM
A0111185.d	N062312-006C	SAMP	1	01/12/24 3:41 AM
A0111186.d	N062312-006C	SAMP	5	01/12/24 3:45 AM
A0111187.d	N062312-006C-PS	PS	1	01/12/24 3:50 AM
A0111188.d	N062312-006CMS	MS	1	01/12/24 3:54 AM
A0111189.d	RINSE	ICAL	1	01/12/24 3:59 AM
A0111190.d	CCV14	CCV	1	01/12/24 4:04 AM
A0111191.d	CCB14	CCB	1	01/12/24 4:09 AM
A0111192.d	N062312-006CMSD	MSD	1	01/12/24 4:13 AM
A0111193.d	N062312-007C	SAMP	1	01/12/24 4:18 AM
A0111194.d	N062312-008C	SAMP	1	01/12/24 4:22 AM
A0111195.d	N062312-010C	SAMP	1	01/12/24 4:27 AM
A0111196.d	N062312-011C	SAMP	1	01/12/24 4:32 AM
A0111197.d	N062312-012C	SAMP	1	01/12/24 4:37 AM
A0111198.d	N062312-013C	SAMP	1	01/12/24 4:41 AM
A0111199.d	N062312-014C	SAMP	1	01/12/24 4:46 AM
A0111200.d	N062312-015C	SAMP	1	01/12/24 4:50 AM
A0111201.d	RINSE	ICAL	1	01/12/24 4:55 AM
A0111202.d	CCV15	CCV	1	01/12/24 5:00 AM
A0111203.d	CCB15	CCB	1	01/12/24 5:05 AM
A0111204.d	N062312-016C	SAMP	1	01/12/24 5:09 AM
A0111205.d	N062312-017C	SAMP	1	01/12/24 5:14 AM
A0111206.d	N062312-018C	SAMP	1	01/12/24 5:18 AM
A0111207.d	N062279-023D	SAMP	1	01/12/24 5:23 AM
A0111208.d	N062272-018C	SAMP	1	01/12/24 5:28 AM
A0111209.d	N062279-023D	SAMP	1	01/12/24 5:33 AM
A0111210.d	N062272-018C	SAMP	1	01/12/24 5:37 AM

INJECTION LOG: 240111A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0111211.d	N062279-023D	SAMP	1	01/12/24 5:42 AM
A0111212.d	N062272-018C	SAMP	1	01/12/24 5:46 AM
A0111213.d	RINSE	ICAL	1	01/12/24 5:51 AM
A0111214.d	CCV16	CCV	1	01/12/24 5:56 AM
A0111215.d	CCB16	CCB	1	01/12/24 6:01 AM
A0111216.d	ICSA6	ICSA	1	01/12/24 6:05 AM
A0111217.d	ICSAB6	ICSAB	1	01/12/24 6:10 AM
A0111218.d	RINSE	ICAL	1	01/12/24 6:14 AM
A0111219.d	RINSE	ICAL	1	01/12/24 6:19 AM
A0111220.d	RINSE	ICAL	1	01/12/24 6:24 AM
A0111221.d	RINSE	ICAL	1	01/12/24 6:28 AM
A0111222.d	RINSE	ICAL	1	01/12/24 6:33 AM
A0111223.d	RINSE	ICAL	1	01/12/24 6:38 AM

INJECTION LOG: 240112A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0112001.d	RINSE	ICAL	1	01/12/24 11:54 AM
A0112002.d	RINSE	ICAL	1	01/12/24 11:58 AM
A0112003.d	Cal Blk	IBLK	1	01/12/24 12:03 PM
A0112004.d	Std1-0.1/1 ppb	ICAL	1	01/12/24 12:08 PM
A0112005.d	Std2-0.5/5 ppb	ICAL	1	01/12/24 12:12 PM
A0112006.d	Std3-5/50 ppb	ICAL	1	01/12/24 12:17 PM
A0112007.d	Std4-10/100 ppb	ICAL	1	01/12/24 12:22 PM
A0112008.d	Std5-4.0/20/200 ppb	ICAL	1	01/12/24 12:27 PM
A0112009.d	Std6-8.0/40/400 ppb	ICAL	1	01/12/24 12:31 PM
A0112010.d	Std7-100/1000 ppb	ICAL	1	01/12/24 12:36 PM
A0112011.d	Std8-200/2000 ppb	ICAL	1	01/12/24 12:41 PM
A0112012.d	ICV	ICV	1	01/12/24 12:59 PM
A0112013.d	ICB	ICB	1	01/12/24 1:04 PM
A0112014.d	LLICV1	LLICV	1	01/12/24 1:09 PM
A0112015.d	MLCCV	CCV	1	01/12/24 1:13 PM
A0112016.d	ICSA1	ICSA	1	01/12/24 1:18 PM
A0112017.d	ICSAB1	ICSAB	1	01/12/24 1:23 PM
A0112019.d	MB-105957	MBLK	1	01/12/24 1:27 PM
A0112020.d	LCS-105957	LCS	1	01/12/24 1:32 PM
A0112021.d	N062244-001C	SAMP	1	01/12/24 1:37 PM
A0112022.d	N062244-001C	SAMP	5	01/12/24 1:41 PM
A0112023.d	N062244-001C-PS	PS	1	01/12/24 1:46 PM
A0112024.d	N062244-001C-MS	MS	1	01/12/24 1:51 PM
A0112025.d	N062244-001C-MSD	MSD	1	01/12/24 1:55 PM
A0112026.d	N062244-002C	SAMP	1	01/12/24 2:00 PM
A0112027.d	N062244-004C	SAMP	1	01/12/24 2:05 PM
A0112028.d	CCV1	CCV	1	01/12/24 2:09 PM
A0112029.d	CCB1	CCB	1	01/12/24 2:14 PM
A0112030.d	N062279-010D	SAMP	1	01/12/24 2:18 PM
A0112031.d	N062279-011D	SAMP	1	01/12/24 2:23 PM
A0112032.d	N062279-012D	SAMP	1	01/12/24 2:28 PM
A0112033.d	CCV2	CCV	1	01/12/24 2:32 PM
A0112034.d	CCB2	CCB	1	01/12/24 2:37 PM
A0112035.d	ICSA2	ICSA	1	01/12/24 2:42 PM
A0112036.d	ICSAB2	ICSAB	1	01/12/24 2:46 PM
A0112037.d	MB-105953	MBLK	1	01/12/24 2:51 PM
A0112038.d	LCS-105953	LCS	1	01/12/24 2:56 PM
A0112039.d	N062278-002D	SAMP	1	01/12/24 3:00 PM
A0112040.d	N062278-002D	SAMP	5	01/12/24 3:05 PM
A0112041.d	N062278-002D-PS	PS	1	01/12/24 3:10 PM
A0112042.d	N062278-002D-MS	MS	1	01/12/24 3:14 PM
A0112043.d	N062278-002D-MSD	MSD	1	01/12/24 3:19 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0112044.d	CCV3	CCV	1	01/12/24 3:24 PM
A0112045.d	CCB3	CCB	1	01/12/24 3:28 PM
A0112046.d	MB-106017	MBLK	1	01/12/24 3:33 PM
A0112047.d	LCS-106017	LCS	1	01/12/24 3:38 PM
A0112048.d	N062349-001A	SAMP	1	01/12/24 3:42 PM
A0112049.d	N062349-001A	SAMP	5	01/12/24 3:47 PM
A0112050.d	N062349-001A-PS	PS	1	01/12/24 3:52 PM
A0112051.d	N062349-001A-MS	MS	1	01/12/24 3:56 PM
A0112052.d	N062349-001A-MSD	MSD	1	01/12/24 4:01 PM
A0112053.d	CCV4	CCV	1	01/12/24 4:06 PM
A0112054.d	CCB4	CCB	1	01/12/24 4:10 PM
A0112055.d	ICSA3	ICSA	1	01/12/24 4:15 PM
A0112056.d	ICSAB3	ICSAB	1	01/12/24 4:20 PM
A0112070.d	LCS-105984	LCS	1	01/12/24 5:36 PM
A0112071.d	N062309-001B	SAMP	10	01/12/24 5:41 PM
A0112072.d	N062309-002D	SAMP	100	01/12/24 5:45 PM
A0112073.d	N062309-004D	SAMP	1	01/12/24 5:50 PM
A0112074.d	N062309-006D	SAMP	10	01/12/24 5:55 PM
A0112075.d	N062309-008D	SAMP	1	01/12/24 5:59 PM
A0112076.d	N062310-002D	SAMP	100	01/12/24 6:04 PM
A0112077.d	N062310-003D	SAMP	10	01/12/24 6:09 PM
A0112078.d	N062310-004D	SAMP	10	01/12/24 6:13 PM
A0112079.d	N062310-005B	SAMP	1	01/12/24 6:18 PM
A0112080.d	CCV5	CCV	1	01/12/24 6:23 PM
A0112081.d	CCB5	CCB	1	01/12/24 6:27 PM
A0112082.d	N062310-006B	SAMP	10	01/12/24 6:32 PM
A0112083.d	N062310-007B	SAMP	10	01/12/24 6:37 PM
A0112084.d	N062310-005B	SAMP	1	01/12/24 6:41 PM
A0112085.d	N062310-008D	SAMP	1	01/12/24 6:46 PM
A0112086.d	N062310-011B	SAMP	1	01/12/24 6:50 PM
A0112087.d	N062310-012B	SAMP	1	01/12/24 6:55 PM
A0112088.d	N062310-013B	SAMP	10	01/12/24 7:00 PM
A0112089.d	N062310-014B	SAMP	10	01/12/24 7:04 PM
A0112090.d	N062310-016D	SAMP	10	01/12/24 7:09 PM
A0112091.d	N062310-016D	SAMP	50	01/12/24 7:14 PM
A0112092.d	CCV6	CCV	1	01/12/24 7:18 PM
A0112093.d	CCB6	CCB	1	01/12/24 7:23 PM
A0112094.d	N062310-016D-PS	PS	10	01/12/24 7:28 PM
A0112095.d	N062310-016DMS	MS	10	01/12/24 7:32 PM
A0112096.d	N062310-016DMSD	MSD	10	01/12/24 7:37 PM
A0112097.d	N062310-017D	SAMP	1	01/12/24 7:42 PM
A0112098.d	N062310-017D	SAMP	10	01/12/24 7:46 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0112099.d	N062310-018D	SAMP	1	01/12/24 7:51 PM
A0112100.d	N062310-018D	SAMP	10	01/12/24 7:55 PM
A0112101.d	N062310-019D	SAMP	1	01/12/24 8:00 PM
A0112102.d	N062310-019D	SAMP	5	01/12/24 8:05 PM
A0112103.d	N062310-019D	SAMP	10	01/12/24 8:10 PM
A0112104.d	CCV7	CCV	1	01/12/24 8:14 PM
A0112105.d	CCB7	CCB	1	01/12/24 8:19 PM
A0112106.d	ICSA4	ICSA	1	01/12/24 8:23 PM
A0112107.d	ICSAB4	ICSAB	1	01/12/24 8:28 PM
A0112108.d	N062310-019D	SAMP	50	01/12/24 8:33 PM
A0112109.d	N062310-019D-PS	PS	1	01/12/24 8:37 PM
A0112110.d	N062310-019D-PS	PS	10	01/12/24 8:42 PM
A0112111.d	N062310-019DMS	MS	1	01/12/24 8:47 PM
A0112112.d	N062310-019DMS	MS	10	01/12/24 8:51 PM
A0112113.d	N062310-019DMSD	MSD	1	01/12/24 8:56 PM
A0112114.d	N062310-019DMSD	MSD	10	01/12/24 9:01 PM
A0112115.d	N062310-020D	SAMP	1	01/12/24 9:05 PM
A0112116.d	N062310-021D	SAMP	1	01/12/24 9:10 PM
A0112117.d	N062310-022D	SAMP	1	01/12/24 9:15 PM
A0112118.d	CCV8	CCV	1	01/12/24 9:19 PM
A0112119.d	CCB8	CCB	1	01/12/24 9:24 PM
A0112120.d	N062310-022D	SAMP	5	01/12/24 9:28 PM
A0112121.d	N062310-022D-PS	PS	1	01/12/24 9:33 PM
A0112122.d	N062310-022DMS	MS	1	01/12/24 9:38 PM
A0112123.d	N062310-022DMSD	MSD	1	01/12/24 9:42 PM
A0112124.d	N062310-023D	SAMP	1	01/12/24 9:47 PM
A0112125.d	N062310-023D	SAMP	10	01/12/24 9:52 PM
A0112126.d	N062279-023D	SAMP	1	01/12/24 9:56 PM
A0112127.d	N062310-005B	SAMP	1	01/12/24 10:01 PM
A0112128.d	N062310-008D	SAMP	1	01/12/24 10:06 PM
A0112129.d	N062310-011B	SAMP	1	01/12/24 10:10 PM
A0112130.d	CCV9	CCV	1	01/12/24 10:15 PM
A0112131.d	CCB9	CCB	1	01/12/24 10:20 PM
A0112132.d	ICSA5	ICSA	1	01/12/24 10:24 PM
A0112133.d	ICSAB5	ICSAB	1	01/12/24 10:29 PM
A0112134.d	N062272-018C	SAMP	1	01/12/24 10:33 PM
A0112135.d	N062312-002C	SAMP	10	01/12/24 10:38 PM
A0112136.d	N062312-005C	SAMP	10	01/12/24 10:43 PM
A0112137.d	N062312-006C	SAMP	10	01/12/24 10:48 PM
A0112138.d	N062312-006C	SAMP	50	01/12/24 10:52 PM
A0112139.d	N062312-006C-PS	PS	10	01/12/24 10:57 PM
A0112140.d	N062312-006CMS	MS	10	01/12/24 11:02 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0112141.d	N062312-006CMSD	MSD	10	01/12/24 11:06 PM
A0112142.d	N062312-010C	SAMP	10	01/12/24 11:11 PM
A0112143.d	CCV10	CCV	1	01/12/24 11:16 PM
A0112144.d	CCB10	CCB	1	01/12/24 11:20 PM
A0112145.d	N062312-011C	SAMP	10	01/12/24 11:25 PM
A0112146.d	N062312-012C	SAMP	1	01/12/24 11:29 PM
A0112147.d	N062312-016C	SAMP	1	01/12/24 11:34 PM
A0112148.d	N062312-016C	SAMP	10	01/12/24 11:39 PM
A0112149.d	N062312-017C	SAMP	10	01/12/24 11:43 PM
A0112150.d	N062312-018C	SAMP	10	01/12/24 11:48 PM
A0112151.d	N062312-018C	SAMP	100	01/12/24 11:53 PM
A0112152.d	CCV11	CCV	1	01/12/24 11:57 PM
A0112153.d	CCB11	CCB	1	01/13/24 12:02 AM
A0112154.d	ICSA6	ICSA	1	01/13/24 12:07 AM
A0112155.d	ICSAB6	ICSAB	1	01/13/24 12:11 AM
A0112156.d	MB-106015	MBLK	1	01/13/24 12:16 AM
A0112157.d	LCS-106015	LCS	1	01/13/24 12:21 AM
A0112158.d	N062350-001D	SAMP	1	01/13/24 12:25 AM
A0112159.d	N062350-002B	SAMP	1	01/13/24 12:30 AM
A0112160.d	N062350-003B	SAMP	1	01/13/24 12:34 AM
A0112161.d	N062350-004D	SAMP	1	01/13/24 12:39 AM
A0112162.d	N062350-005D	SAMP	1	01/13/24 12:44 AM
A0112163.d	N062350-006D	SAMP	1	01/13/24 12:48 AM
A0112164.d	N062350-008D	SAMP	1	01/13/24 12:53 AM
A0112165.d	RINSE	ICAL	1	01/13/24 12:58 AM
A0112166.d	CCV12	CCV	1	01/13/24 1:02 AM
A0112167.d	CCB12	CCB	1	01/13/24 1:07 AM
A0112168.d	N062350-009D	SAMP	1	01/13/24 1:11 AM
A0112169.d	N062350-010E	SAMP	1	01/13/24 1:16 AM
A0112170.d	N062350-011E	SAMP	1	01/13/24 1:21 AM
A0112171.d	N062350-012E	SAMP	1	01/13/24 1:25 AM
A0112172.d	N062350-013E	SAMP	1	01/13/24 1:30 AM
A0112173.d	N062350-014E	SAMP	1	01/13/24 1:35 AM
A0112174.d	N062350-015E	SAMP	1	01/13/24 1:39 AM
A0112175.d	N062350-016B	SAMP	1	01/13/24 1:44 AM
A0112176.d	N062350-017B	SAMP	1	01/13/24 1:49 AM
A0112177.d	RINSE	ICAL	1	01/13/24 1:53 AM
A0112178.d	CCV13	CCV	1	01/13/24 1:58 AM
A0112179.d	CCB13	CCB	1	01/13/24 2:03 AM
A0112180.d	N062350-018D	SAMP	1	01/13/24 2:07 AM
A0112181.d	N062350-018D	SAMP	5	01/13/24 2:12 AM
A0112182.d	N062350-018D-PS	PS	1	01/13/24 2:16 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0112183.d	N062350-018DMS	MS	1	01/13/24 2:21 AM
A0112184.d	N062350-018DMSD	MSD	1	01/13/24 2:26 AM
A0112185.d	N062350-019F	SAMP	1	01/13/24 2:30 AM
A0112186.d	N062350-020F	SAMP	1	01/13/24 2:35 AM
A0112187.d	RINSE	ICAL	1	01/13/24 2:40 AM
A0112188.d	CCV14	CCV	1	01/13/24 2:44 AM
A0112189.d	CCB14	CCB	1	01/13/24 2:49 AM
A0112190.d	ICSA7	ICSA	1	01/13/24 2:54 AM
A0112191.d	ICSAB7	ICSAB	1	01/13/24 2:58 AM
A0112192.d	MB-106021	MBLK	1	01/13/24 3:03 AM
A0112193.d	LCS-106021	LCS	1	01/13/24 3:08 AM
A0112194.d	N062351-001B	SAMP	1	01/13/24 3:12 AM
A0112195.d	N062351-001B	SAMP	5	01/13/24 3:17 AM
A0112196.d	N062351-001B-PS	PS	1	01/13/24 3:21 AM
A0112197.d	N062351-001B-MS	MS	1	01/13/24 3:26 AM
A0112198.d	N062351-001B-MSD	MSD	1	01/13/24 3:31 AM
A0112199.d	N062351-002B	SAMP	1	01/13/24 3:35 AM
A0112200.d	N062351-003B	SAMP	1	01/13/24 3:40 AM
A0112201.d	RINSE	ICAL	1	01/13/24 3:45 AM
A0112202.d	CCV15	CCV	1	01/13/24 3:49 AM
A0112203.d	CCB15	CCB	1	01/13/24 3:54 AM
A0112204.d	N062351-004D	SAMP	1	01/13/24 3:58 AM
A0112205.d	N062351-005D	SAMP	1	01/13/24 4:03 AM
A0112206.d	N062351-006D	SAMP	1	01/13/24 4:08 AM
A0112207.d	N062351-007D	SAMP	1	01/13/24 4:12 AM
A0112208.d	N062351-008D	SAMP	1	01/13/24 4:17 AM
A0112209.d	N062351-009D	SAMP	1	01/13/24 4:22 AM
A0112210.d	N062351-010D	SAMP	1	01/13/24 4:26 AM
A0112211.d	N062351-011D	SAMP	1	01/13/24 4:31 AM
A0112212.d	N062351-012D	SAMP	1	01/13/24 4:36 AM
A0112213.d	RINSE	ICAL	1	01/13/24 4:40 AM
A0112214.d	CCV16	CCV	1	01/13/24 4:45 AM
A0112215.d	CCB16	CCB	1	01/13/24 4:50 AM
A0112216.d	N062351-013D	SAMP	1	01/13/24 4:54 AM
A0112217.d	N062351-014D	SAMP	1	01/13/24 4:59 AM
A0112218.d	N062352-001B	SAMP	1	01/13/24 5:03 AM
A0112219.d	N062352-002B	SAMP	1	01/13/24 5:08 AM
A0112220.d	N062352-003B	SAMP	1	01/13/24 5:13 AM
A0112221.d	RINSE	ICAL	1	01/13/24 5:17 AM
A0112222.d	CCV17	CCV	1	01/13/24 5:22 AM
A0112223.d	CCB17	CCB	1	01/13/24 5:27 AM
A0112224.d	ICSA8	ICSA	1	01/13/24 5:31 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0112225.d	ICSAB8	ICSAB	1	01/13/24 5:36 AM
A0112226.d	N062310-022D	SAMP	1	01/13/24 5:41 AM
A0112227.d	N062310-023D	SAMP	1	01/13/24 5:45 AM
A0112228.d	N062279-023D	SAMP	1	01/13/24 5:50 AM
A0112229.d	N062310-005B	SAMP	1	01/13/24 5:55 AM
A0112230.d	N062310-008D	SAMP	1	01/13/24 5:59 AM
A0112231.d	N062310-011B	SAMP	1	01/13/24 6:04 AM
A0112232.d	N062310-022D	SAMP	1	01/13/24 6:08 AM
A0112233.d	N062310-023D	SAMP	1	01/13/24 6:13 AM
A0112234.d	N062279-023D	SAMP	1	01/13/24 6:18 AM
A0112235.d	RINSE	ICAL	1	01/13/24 6:23 AM
A0112236.d	CCV18	CCV	1	01/13/24 6:27 AM
A0112237.d	CCB18	CCB	1	01/13/24 6:32 AM
A0112238.d	N062310-005B	SAMP	1	01/13/24 6:36 AM
A0112239.d	N062310-008D	SAMP	1	01/13/24 6:41 AM
A0112240.d	N062310-011B	SAMP	1	01/13/24 6:46 AM
A0112241.d	N062272-018C	SAMP	1	01/13/24 6:50 AM
A0112242.d	N062312-012C	SAMP	1	01/13/24 6:55 AM
A0112243.d	N062312-016C	SAMP	1	01/13/24 7:00 AM
A0112244.d	N062272-018C	SAMP	1	01/13/24 7:04 AM
A0112245.d	N062312-012C	SAMP	1	01/13/24 7:09 AM
A0112246.d	N062312-016C	SAMP	1	01/13/24 7:14 AM
A0112247.d	RINSE	ICAL	1	01/13/24 7:18 AM
A0112248.d	CCV19	CCV	1	01/13/24 7:23 AM
A0112249.d	CCB19	CCB	1	01/13/24 7:28 AM
A0112250.d	ICSA9	ICSA	1	01/13/24 7:32 AM
A0112251.d	ICSAB9	ICSAB	1	01/13/24 7:37 AM
A0112252.d	RINSE	ICAL	1	01/13/24 7:41 AM
A0112253.d	RINSE	ICAL	1	01/13/24 7:46 AM
A0112254.d	RINSE	ICAL	1	01/13/24 7:51 AM
A0112255.d	RINSE	ICAL	1	01/13/24 7:55 AM
A0112256.d	RINSE	ICAL	1	01/13/24 8:00 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0112001.d	RINSE	ICAL	1	01/14/24 12:20 PM
A0114002.d	RINSE	ICAL	1	01/14/24 12:25 PM
A0114003.d	Cal Blk	IBLK	1	01/14/24 12:29 PM
A0114004.d	Std1-0.1/1 ppb	ICAL	1	01/14/24 12:34 PM
A0114005.d	Std2-0.5/5 ppb	ICAL	1	01/14/24 12:39 PM
A0114006.d	Std3-5/50 ppb	ICAL	1	01/14/24 12:44 PM
A0114007.d	Std4-10/100 ppb	ICAL	1	01/14/24 12:48 PM
A0114008.d	Std5-4.0/20/200 ppb	ICAL	1	01/14/24 12:53 PM
A0114009.d	Std6-8.0/40/400 ppb	ICAL	1	01/14/24 12:58 PM
A0114010.d	Std7-100/1000 ppb	ICAL	1	01/14/24 1:03 PM
A0114011.d	Std8-200/2000 ppb	ICAL	1	01/14/24 1:07 PM
A0114012.d	ICV	ICV	1	01/14/24 1:12 PM
A0114013.d	ICB	ICB	1	01/14/24 1:17 PM
A0114014.d	LLICV1	CCV1	1	01/14/24 1:21 PM
A0114015.d	MLCCV	CCV	1	01/14/24 1:26 PM
A0114016.d	ICSA1	ICSA	1	01/14/24 1:31 PM
A0114017.d	ICSAB1	ICSAB	1	01/14/24 1:35 PM
A0114018.d	MB-106015	MBLK	1	01/14/24 1:40 PM
A0114019.d	LCS-106015	LCS	1	01/14/24 1:44 PM
A0114020.d	N062350-001D	SAMP	1	01/14/24 1:49 PM
A0114021.d	N062350-002B	SAMP	1	01/14/24 1:54 PM
A0114022.d	N062350-003B	SAMP	1	01/14/24 1:58 PM
A0114023.d	N062350-004D	SAMP	1	01/14/24 2:03 PM
A0114024.d	N062350-005D	SAMP	1	01/14/24 2:08 PM
A0114025.d	N062350-006D	SAMP	1	01/14/24 2:12 PM
A0114026.d	N062350-008D	SAMP	1	01/14/24 2:17 PM
A0114027.d	RINSE	ICAL	1	01/14/24 2:21 PM
A0114028.d	CCV1	CCV	1	01/14/24 2:26 PM
A0114029.d	CCB1	CCB	1	01/14/24 2:31 PM
A0114030.d	N062350-009D	SAMP	1	01/14/24 2:35 PM
A0114031.d	N062350-010E	SAMP	1	01/14/24 2:40 PM
A0114032.d	N062350-011E	SAMP	1	01/14/24 2:45 PM
A0114033.d	N062350-012E	SAMP	1	01/14/24 2:49 PM
A0114034.d	N062350-013E	SAMP	1	01/14/24 2:54 PM
A0114035.d	N062350-014E	SAMP	1	01/14/24 2:59 PM
A0114036.d	N062350-015E	SAMP	1	01/14/24 3:03 PM
A0114037.d	N062350-016B	SAMP	1	01/14/24 3:08 PM
A0114038.d	N062350-017B	SAMP	1	01/14/24 3:13 PM
A0114039.d	RINSE	ICAL	1	01/14/24 3:17 PM
A0114040.d	CCV2	CCV	1	01/14/24 3:22 PM
A0114041.d	CCB2	CCB	1	01/14/24 3:26 PM
A0114042.d	N062350-018D	SAMP	1	01/14/24 3:31 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114043.d	N062350-018D	SAMP	5	01/14/24 3:36 PM
A0114044.d	N062350-018D-PS	PS	1	01/14/24 3:40 PM
A0114045.d	N062350-018DMS	MS	1	01/14/24 3:45 PM
A0114046.d	N062350-018DMSD	MSD	1	01/14/24 3:50 PM
A0114047.d	N062350-019F	SAMP	1	01/14/24 3:54 PM
A0114048.d	N062350-020F	SAMP	1	01/14/24 3:59 PM
A0114049.d	MB-106021	MBLK	1	01/14/24 4:04 PM
A0114050.d	LCS-106021	LCS	1	01/14/24 4:08 PM
A0114051.d	RINSE	ICAL	1	01/14/24 4:13 PM
A0114052.d	CCV3	CCV	1	01/14/24 4:18 PM
A0114053.d	CCB3	CCB	1	01/14/24 4:22 PM
A0114054.d	ICSA2	ICSA	1	01/14/24 4:27 PM
A0114055.d	ICSAB2	ICSAB	1	01/14/24 4:31 PM
A0114056.d	N062351-001B	SAMP	1	01/14/24 4:36 PM
A0114057.d	N062351-001B	SAMP	5	01/14/24 4:41 PM
A0114058.d	N062351-001B-PS	PS	1	01/14/24 4:45 PM
A0114059.d	N062351-001B-MS	MS	1	01/14/24 4:50 PM
A0114060.d	N062351-001B-MSD	MSD	1	01/14/24 4:55 PM
A0114061.d	N062351-002B	SAMP	1	01/14/24 4:59 PM
A0114062.d	N062351-003B	SAMP	1	01/14/24 5:04 PM
A0114063.d	N062351-004D	SAMP	1	01/14/24 5:09 PM
A0114064.d	N062351-005D	SAMP	1	01/14/24 5:13 PM
A0114065.d	RINSE	ICAL	1	01/14/24 5:18 PM
A0114066.d	CCV4	CCV	1	01/14/24 5:23 PM
A0114067.d	CCB4	CCB	1	01/14/24 5:27 PM
A0114068.d	N062351-006D	SAMP	1	01/14/24 5:32 PM
A0114069.d	N062351-007D	SAMP	1	01/14/24 5:36 PM
A0114070.d	N062351-008D	SAMP	1	01/14/24 5:41 PM
A0114071.d	N062351-009D	SAMP	1	01/14/24 5:46 PM
A0114072.d	N062351-010D	SAMP	1	01/14/24 5:50 PM
A0114073.d	N062351-011D	SAMP	1	01/14/24 5:55 PM
A0114074.d	N062351-012D	SAMP	1	01/14/24 6:00 PM
A0114075.d	N062351-013D	SAMP	1	01/14/24 6:04 PM
A0114076.d	N062351-014D	SAMP	1	01/14/24 6:09 PM
A0114077.d	RINSE	ICAL	1	01/14/24 6:14 PM
A0114078.d	CCV5	CCV	1	01/14/24 6:18 PM
A0114079.d	CCB5	CCB	1	01/14/24 6:23 PM
A0114080.d	N062352-001B	SAMP	1	01/14/24 6:27 PM
A0114081.d	N062352-002B	SAMP	1	01/14/24 6:32 PM
A0114082.d	N062352-003B	SAMP	1	01/14/24 6:37 PM
A0114083.d	N062272-018C	SAMP	1	01/14/24 6:41 PM
A0114084.d	N062272-018C	SAMP	1	01/14/24 6:46 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0114086.d	N062279-023D	SAMP	1	01/14/24 6:55 PM
A0114087.d	N062310-005B	SAMP	1	01/14/24 7:00 PM
A0114088.d	N062310-005B	SAMP	1	01/14/24 7:05 PM
A0114089.d	RINSE	ICAL	1	01/14/24 7:09 PM
A0114090.d	CCV6	CCV	1	01/14/24 7:14 PM
A0114091.d	CCB6	CCB	1	01/14/24 7:19 PM
A0114092.d	ICSA3	ICSA	1	01/14/24 7:23 PM
A0114093.d	ICSAB3	ICSAB	1	01/14/24 7:28 PM
A0114094.d	N062310-008D	SAMP	1	01/14/24 7:33 PM
A0114095.d	N062310-008D	SAMP	1	01/14/24 7:37 PM
A0114096.d	N062310-011B	SAMP	1	01/14/24 7:42 PM
A0114097.d	N062310-011B	SAMP	1	01/14/24 7:47 PM
A0114098.d	N062310-022D	SAMP	1	01/14/24 7:51 PM
A0114099.d	N062310-022D	SAMP	1	01/14/24 7:56 PM
A0114100.d	N062310-023D	SAMP	1	01/14/24 8:01 PM
A0114101.d	N062310-023D	SAMP	1	01/14/24 8:05 PM
A0114102.d	N062312-012C	SAMP	1	01/14/24 8:10 PM
A0114103.d	RINSE	ICAL	1	01/14/24 8:14 PM
A0114104.d	CCV7	CCV	1	01/14/24 8:19 PM
A0114105.d	CCB7	CCB	1	01/14/24 8:24 PM
A0114106.d	N062312-012C	SAMP	1	01/14/24 8:28 PM
A0114107.d	N062312-016C	SAMP	1	01/14/24 8:33 PM
A0114108.d	N062312-016C	SAMP	1	01/14/24 8:38 PM
A0114109.d	N062350-014E	SAMP	5	01/14/24 8:42 PM
A0114110.d	N062350-015E	SAMP	5	01/14/24 8:47 PM
A0114111.d	N062350-016B	SAMP	25	01/14/24 8:52 PM
A0114112.d	N062350-017B	SAMP	5	01/14/24 8:56 PM
A0114113.d	N062350-019F	SAMP	10	01/14/24 9:01 PM
A0114114.d	N062350-020F	SAMP	10	01/14/24 9:06 PM
A0114115.d	RINSE	ICAL	1	01/14/24 9:10 PM
A0114116.d	CCV8	CCV	1	01/14/24 9:15 PM
A0114117.d	CCB8	CCB	1	01/14/24 9:19 PM
A0114118.d	N062351-001B	SAMP	25	01/14/24 9:24 PM
A0114119.d	N062351-001B-PS	PS	5	01/14/24 9:29 PM
A0114120.d	N062351-001B-MS	MS	5	01/14/24 9:34 PM
A0114121.d	N062351-001B-MSD	MSD	5	01/14/24 9:38 PM
A0114122.d	N062351-002B	SAMP	5	01/14/24 9:43 PM
A0114123.d	N062351-013D	SAMP	5	01/14/24 9:47 PM
A0114124.d	RINSE	ICAL	1	01/14/24 9:52 PM
A0114125.d	CCV9	CCV	1	01/14/24 9:57 PM
A0114126.d	CCB9	CCB	1	01/14/24 10:01 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0114128.d	ICSAB4	ICSAB	1	01/14/24 10:11 PM
A0114129.d	MB-106016	MBLK	1	01/14/24 10:15 PM
A0114130.d	LCS-106016	LCS	1	01/14/24 10:20 PM
A0114131.d	N062346-001B	SAMP	1	01/14/24 10:25 PM
A0114132.d	N062346-002B	SAMP	1	01/14/24 10:29 PM
A0114133.d	N062346-002B	SAMP	5	01/14/24 10:34 PM
A0114134.d	N062346-002B-PS	PS	1	01/14/24 10:39 PM
A0114135.d	N062346-002B-MS	MS	1	01/14/24 10:43 PM
A0114136.d	N062346-002B-MSD	MSD	1	01/14/24 10:48 PM
A0114137.d	N062348-001C	SAMP	1	01/14/24 10:52 PM
A0114138.d	RINSE	ICAL	1	01/14/24 10:57 PM
A0114139.d	CCV10	CCV	1	01/14/24 11:02 PM
A0114140.d	CCB10	CCB	1	01/14/24 11:07 PM
A0114141.d	N062348-002C	SAMP	1	01/14/24 11:11 PM
A0114142.d	N062348-003C	SAMP	1	01/14/24 11:16 PM
A0114143.d	N062348-004C	SAMP	1	01/14/24 11:20 PM
A0114144.d	N062348-006B	SAMP	1	01/14/24 11:25 PM
A0114145.d	N062348-007B	SAMP	1	01/14/24 11:30 PM
A0114146.d	N062348-008B	SAMP	1	01/14/24 11:34 PM
A0114147.d	N062348-009C	SAMP	1	01/14/24 11:39 PM
A0114148.d	N062348-010C	SAMP	1	01/14/24 11:44 PM
A0114149.d	RINSE	ICAL	1	01/14/24 11:48 PM
A0114150.d	CCV11	CCV	1	01/14/24 11:53 PM
A0114151.d	CCB11	CCB	1	01/14/24 11:58 PM
A0114152.d	ICSA5	ICSA	1	01/15/24 12:02 AM
A0114153.d	ICSAB5	ICSAB	1	01/15/24 12:07 AM
A0114154.d	RINSE	ICAL	1	01/15/24 12:12 AM
A0114155.d	RINSE	ICAL	1	01/15/24 12:16 AM
A0114156.d	RINSE	ICAL	1	01/15/24 12:21 AM
A0114157.d	RINSE	ICAL	1	01/15/24 12:25 AM
A0114158.d	RINSE	ICAL	1	01/15/24 12:30 AM

INJECTION LOG: 240117A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0117001.d	RINSE	ICAL	1	01/17/24 11:53 AM
A0117002.d	RINSE	ICAL	1	01/17/24 11:58 AM
A0117003.d	Cal Blk	IBLK	1	01/17/24 12:03 PM
A0117004.d	Std1-0.1/1 ppb	ICAL	1	01/17/24 12:07 PM
A0117005.d	Std2-0.5/5 ppb	ICAL	1	01/17/24 12:12 PM
A0117006.d	Std3-5/50 ppb	ICAL	1	01/17/24 12:17 PM
A0117007.d	Std4-10/100 ppb	ICAL	1	01/17/24 12:22 PM
A0117008.d	Std5-4.0/20/200 ppb	ICAL	1	01/17/24 12:26 PM
A0117009.d	Std6-8.0/40/400 ppb	ICAL	1	01/17/24 12:31 PM
A0117010.d	Std7-100/1000 ppb	ICAL	1	01/17/24 12:36 PM
A0117011.d	Std8-200/2000 ppb	ICAL	1	01/17/24 12:41 PM
A0117012.d	ICV	ICV	1	01/17/24 12:57 PM
A0117013.d	ICB	ICB	1	01/17/24 1:02 PM
A0117014.d	LLICV1	LLICV	1	01/17/24 1:07 PM
A0117015.d	MLCCV	CCV	1	01/17/24 1:11 PM
A0117016.d	ICSA1	ICSA	1	01/17/24 1:16 PM
A0117017.d	ICSAB1	ICSAB	1	01/17/24 1:21 PM
A0117018.d	N062312-007C	SAMP	1	01/17/24 1:29 PM
A0117019.d	N062312-012C	SAMP	1	01/17/24 1:34 PM
A0117020.d	N062312-018C	SAMP	1	01/17/24 1:38 PM
A0117021.d	N062312-007C	SAMP	1	01/17/24 1:46 PM
A0117022.d	N062312-012C	SAMP	1	01/17/24 1:50 PM
A0117023.d	N062312-007C	SAMP	1	01/17/24 1:55 PM
A0117024.d	RINSE	ICAL	1	01/17/24 2:05 PM
A0117025.d	CCV1	CCV	1	01/17/24 2:10 PM
A0117026.d	CCB1	CCB	1	01/17/24 2:14 PM
A0117028.d	MB-106105	MBLK	1	01/17/24 2:20 PM
A0117029.d	LCS-106105	LCS	1	01/17/24 2:29 PM
A0117030.d	N062434-003F	SAMP	1	01/17/24 2:34 PM
A0117031.d	N062434-003F	SAMP	5	01/17/24 2:38 PM
A0117032.d	N062434-003F-PS	PS	1	01/17/24 2:43 PM
A0117033.d	N062434-003FMS	MS	1	01/17/24 2:48 PM
A0117034.d	RINSE	ICAL	1	01/17/24 2:52 PM
A0117036.d	RINSE	ICAL	1	01/17/24 3:02 PM
A0117037.d	CCV2	CCV	1	01/17/24 3:06 PM
A0117038.d	CCB2	CCB	1	01/17/24 3:11 PM
A0117039.d	N062434-003FMSD	MSD	1	01/17/24 3:20 PM
A0117040.d	N062434-004C	SAMP	1	01/17/24 3:24 PM
A0117041.d	N062434-005C	SAMP	1	01/17/24 3:29 PM
A0117042.d	N062434-006C	SAMP	1	01/17/24 3:34 PM
A0117043.d	N062434-003F	SAMP	1	01/17/24 3:38 PM
A0117044.d	N062434-003F	SAMP	5	01/17/24 3:43 PM

INJECTION LOG: 240117A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0117046.d	N062434-003FMS	MS	1	01/17/24 3:52 PM
A0117047.d	CCV3	CCV	1	01/17/24 3:57 PM
A0117048.d	CCB3	CCB	1	01/17/24 4:02 PM
A0117049.d	ICSA2	ICSA	1	01/17/24 4:06 PM
A0117050.d	ICSAB2	ICSAB	1	01/17/24 4:11 PM
A0117051.d	MB-106089	MBLK	1	01/17/24 4:15 PM
A0117052.d	LCS-106089	LCS	1	01/17/24 4:20 PM
A0117053.d	N062404-001A	SAMP	1	01/17/24 4:25 PM
A0117054.d	N062405-001A	SAMP	1	01/17/24 4:29 PM
A0117055.d	N062406-001A	SAMP	1	01/17/24 4:34 PM
A0117056.d	N062426-001A	SAMP	1	01/17/24 4:39 PM
A0117057.d	N062426-001A	SAMP	5	01/17/24 4:43 PM
A0117058.d	N062426-001A-PS	PS	1	01/17/24 4:48 PM
A0117059.d	N062426-001A-MS	MS	1	01/17/24 4:53 PM
A0117060.d	N062426-001A-MSD	MSD	1	01/17/24 4:57 PM
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A0117062.d	CCB4	CCB	1	01/17/24 5:06 PM
A0117063.d	LCS-106089	LCS	1	01/17/24 5:11 PM
A0117064.d	N062404-001A	SAMP	1	01/17/24 5:16 PM
A0117065.d	N062405-001A	SAMP	1	01/17/24 5:20 PM
A0117066.d	N062406-001A	SAMP	1	01/17/24 5:25 PM
A0117067.d	CCV5	CCV	1	01/17/24 5:30 PM
A0117068.d	CCB5	CCB	1	01/17/24 5:34 PM
A0117069.d	ICSA3	ICSA	1	01/17/24 5:39 PM
A0117070.d	ICSAB3	ICSAB	1	01/17/24 5:44 PM
A0117071.d	MB-106099	MBLK	1	01/17/24 6:06 PM
A0117072.d	LCS-106099	LCS	1	01/17/24 6:10 PM
A0117073.d	N062434-001D	SAMP	1	01/17/24 6:15 PM
A0117074.d	N062434-002D	SAMP	1	01/17/24 6:19 PM
A0117075.d	N062434-003F	SAMP	1	01/17/24 6:24 PM
A0117076.d	N062434-003F	SAMP	5	01/17/24 6:29 PM
A0117077.d	N062434-003F-PS	PS	1	01/17/24 6:33 PM
A0117078.d	N062434-003FMS	MS	1	01/17/24 6:38 PM
A0117079.d	N062434-003FMSD	MSD	1	01/17/24 6:43 PM
A0117080.d	RINSE	ICAL	1	01/17/24 6:47 PM
A0117081.d	CCV6	CCV	1	01/17/24 6:52 PM
A0117082.d	CCB6	CCB	1	01/17/24 6:57 PM
A0117083.d	N062434-007D	SAMP	1	01/17/24 7:01 PM
A0117084.d	N062434-008D	SAMP	1	01/17/24 7:06 PM
A0117085.d	N062435-001D	SAMP	1	01/17/24 7:11 PM
A0117086.d	N062435-002D	SAMP	1	01/17/24 7:15 PM

INJECTION LOG: 240117A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0117089.d	N062435-005D	SAMP	1	01/17/24 7:29 PM
A0117090.d	N062435-006D	SAMP	1	01/17/24 7:34 PM
A0117091.d	N062435-007D	SAMP	1	01/17/24 7:38 PM
A0117092.d	RINSE	ICAL	1	01/17/24 7:43 PM
A0117093.d	CCV7	CCV	1	01/17/24 7:48 PM
A0117094.d	CCB7	CCB	1	01/17/24 7:52 PM
A0117095.d	N062435-008D	SAMP	1	01/17/24 7:57 PM
A0117096.d	N062435-009D	SAMP	1	01/17/24 8:01 PM
A0117097.d	N062435-010D	SAMP	1	01/17/24 8:06 PM
A0117098.d	N062435-011D	SAMP	1	01/17/24 8:11 PM
A0117099.d	N062435-012B	SAMP	1	01/17/24 8:15 PM
A0117100.d	N062435-013D	SAMP	1	01/17/24 8:20 PM
A0117101.d	N062435-014D	SAMP	1	01/17/24 8:25 PM
A0117102.d	N062435-015D	SAMP	1	01/17/24 8:29 PM
A0117103.d	RINSE	ICAL	1	01/17/24 8:34 PM
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A0117106.d	ICSA4	ICSA	1	01/17/24 8:48 PM
A0117107.d	ICSAB4	ICSAB	1	01/17/24 8:53 PM
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A0117110.d	N062435-016D	SAMP	1	01/17/24 9:06 PM
A0117111.d	N062436-001D	SAMP	1	01/17/24 9:11 PM
A0117112.d	N062436-002D	SAMP	1	01/17/24 9:16 PM
A0117113.d	N062436-002D	SAMP	5	01/17/24 9:20 PM
A0117114.d	N062436-002D-PS	PS	1	01/17/24 9:25 PM
A0117115.d	N062436-002DMS	MS	1	01/17/24 9:30 PM
A0117116.d	N062436-002DMSD	MSD	1	01/17/24 9:34 PM
A0117117.d	RINSE	ICAL	1	01/17/24 9:39 PM
A0117118.d	CCV9	CCV	1	01/17/24 9:44 PM
A0117119.d	CCB9	CCB	1	01/17/24 9:48 PM
A0117120.d	N062436-003D	SAMP	1	01/17/24 9:53 PM
A0117121.d	N062436-004D	SAMP	1	01/17/24 9:58 PM
A0117122.d	N062436-005D	SAMP	1	01/17/24 10:02 PM
A0117123.d	N062436-006C	SAMP	1	01/17/24 10:07 PM
A0117124.d	RINSE	ICAL	1	01/17/24 10:11 PM
A0117125.d	CCV10	CCV	1	01/17/24 10:16 PM
A0117126.d	CCB10	CCB	1	01/17/24 10:21 PM
A0117127.d	ICSA5	ICSA	1	01/17/24 10:25 PM
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INJECTION LOG: 240117A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0117133.d	N062429-002B	SAMP	1	01/17/24 10:53 PM
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A0117135.d	N062429-002B	SAMP	10	01/17/24 11:03 PM
A0117136.d	N062429-002B	SAMP	50	01/17/24 11:07 PM
A0117137.d	N062429-002B-PS	PS	1	01/17/24 11:12 PM
A0117138.d	N062429-002B-PS	PS	10	01/17/24 11:16 PM
A0117139.d	CCV11	CCV	1	01/17/24 11:21 PM
A0117140.d	CCB11	CCB	1	01/17/24 11:26 PM
A0117141.d	N062429-002B-MS	MS	1	01/17/24 11:30 PM
A0117142.d	N062429-002B-MS	MS	10	01/17/24 11:35 PM
A0117143.d	N062429-002B-MSD	MSD	1	01/17/24 11:40 PM
A0117144.d	N062429-002B-MSD	MSD	10	01/17/24 11:44 PM
A0117145.d	N062429-003B	SAMP	1	01/17/24 11:49 PM
A0117146.d	N062429-003B	SAMP	10	01/17/24 11:54 PM
A0117147.d	CCV12	CCV	1	01/17/24 11:58 PM
A0117148.d	CCB12	CCB	1	01/18/24 12:03 AM
A0117149.d	ICSA6	ICSA	1	01/18/24 12:08 AM
A0117150.d	ICSAB6	ICSAB	1	01/18/24 12:12 AM
A0117151.d	MB-106102	MBLK	1	01/18/24 12:17 AM
A0117152.d	LCS-106102	LCS	1	01/18/24 12:22 AM
A0117153.d	N062429-001C	SAMP	1	01/18/24 12:26 AM
A0117154.d	N062429-002C	SAMP	1	01/18/24 12:31 AM
A0117155.d	N062429-003C	SAMP	1	01/18/24 12:36 AM
A0117156.d	N062429-003C	SAMP	5	01/18/24 12:40 AM
A0117157.d	N062429-003C-PS	PS	1	01/18/24 12:45 AM
A0117158.d	N062429-003C-MS	MS	1	01/18/24 12:50 AM
A0117159.d	N062429-003C-MSD	MSD	1	01/18/24 12:54 AM
A0117160.d	RINSE	ICAL	1	01/18/24 12:59 AM
A0117161.d	CCV13	CCV	1	01/18/24 1:04 AM
A0117162.d	CCB13	CCB	1	01/18/24 1:08 AM
A0117163.d	ICSA7	ICSA	1	01/18/24 1:13 AM
A0117164.d	ICSAB7	ICSAB	1	01/18/24 1:18 AM
A0117165.d	RINSE	ICAL	1	01/18/24 1:22 AM
A0117166.d	RINSE	ICAL	1	01/18/24 1:27 AM
A0117167.d	RINSE	ICAL	1	01/18/24 1:32 AM
A0117168.d	RINSE	ICAL	1	01/18/24 1:36 AM
A0117169.d	RINSE	ICAL	1	01/18/24 1:41 AM

INJECTION LOG: 240126A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0126001.d	RINSE	ICAL	1	01/26/24 9:31 PM
A0126002.d	RINSE	ICAL	1	01/26/24 9:36 PM
A0126003.d	Cal Blk	IBLK	1	01/26/24 9:40 PM
A0126004.d	Std1-0.1/1 ppb	ICAL	1	01/26/24 9:45 PM
A0126005.d	Std2-0.5/5 ppb	ICAL	1	01/26/24 9:50 PM
A0126006.d	Std3-5/50 ppb	ICAL	1	01/26/24 9:55 PM
A0126007.d	Std4-10/100 ppb	ICAL	1	01/26/24 9:59 PM
A0126008.d	Std5-4.0/20/200 ppb	ICAL	1	01/26/24 10:04 PM
A0126009.d	Std6-8.0/40/400 ppb	ICAL	1	01/26/24 10:09 PM
A0126010.d	Std7-100/1000 ppb	ICAL	1	01/26/24 10:14 PM
A0126011.d	Std8-200/2000 ppb	ICAL	1	01/26/24 10:18 PM
A0126012.d	ICV	ICV	1	01/26/24 10:25 PM
A0126013.d	ICB	ICB	1	01/26/24 10:30 PM
A0126014.d	LLICV1	CCV1	1	01/26/24 10:34 PM
A0126015.d	LLICV1	CCV1	1	01/26/24 10:40 PM
A0126016.d	MLCCV	CCV	1	01/26/24 10:45 PM
A0126017.d	ICSA1	ICSA	1	01/26/24 10:50 PM
A0126018.d	ICSAB1	ICSAB	1	01/26/24 10:54 PM
A0126019.d	N062312-018C	SAMP	1	01/26/24 10:59 PM
A0126020.d	N062312-018C	SAMP	1	01/26/24 11:04 PM
A0126021.d	N062312-018C	SAMP	1	01/26/24 11:08 PM
A0126022.d	N062312-018C	SAMP	1	01/26/24 11:16 PM
A0126023.d	N062312-018C	SAMP	1	01/26/24 11:20 PM
A0126024.d	N062312-018C	SAMP	1	01/26/24 11:25 PM
A0126025.d	N062312-018C	SAMP	1	01/26/24 11:30 PM
A0126026.d	N062312-018C	SAMP	1	01/26/24 11:34 PM
A0126027.d	N062312-018C	SAMP	1	01/26/24 11:39 PM
A0126028.d	RINSE	ICAL	1	01/26/24 11:44 PM
A0126029.d	CCV1	CCV	1	01/26/24 11:48 PM
A0126030.d	CCB1	CCB	1	01/26/24 11:53 PM
A0126031.d	MB-106326	MBLK	1	01/26/24 11:57 PM
A0126032.d	LCS-106326	LCS	1	01/27/24 12:02 AM
A0126033.d	N062599-001A	SAMP	1	01/27/24 12:07 AM
A0126034.d	N062599-001A	SAMP	5	01/27/24 12:12 AM
A0126035.d	N062599-001A-PS	PS	1	01/27/24 12:16 AM
A0126036.d	N062599-001A-MS	MS	1	01/27/24 12:21 AM
A0126037.d	N062599-001A-MSD	MSD	1	01/27/24 12:26 AM
A0126038.d	N062600-001A	SAMP	1	01/27/24 12:30 AM
A0126039.d	N062641-001A	SAMP	1	01/27/24 12:35 AM
A0126040.d	N062641-002A	SAMP	1	01/27/24 12:40 AM
A0126041.d	CCV2	CCV	1	01/27/24 12:44 AM
A0126042.d	CCB2	CCB	1	01/27/24 12:49 AM

INJECTION LOG: 240126A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0126043.d	N062642-001A	SAMP	1	01/27/24 12:53 AM
A0126044.d	N062599-001A	SAMP	1	01/27/24 12:58 AM
A0126045.d	N062599-001A	SAMP	5	01/27/24 1:03 AM
A0126046.d	N062599-001A-PS	PS	1	01/27/24 1:08 AM
A0126047.d	N062599-001A-MS	MS	1	01/27/24 1:12 AM
A0126048.d	N062599-001A-MSD	MSD	1	01/27/24 1:17 AM
A0126049.d	N062642-001A	SAMP	1	01/27/24 1:21 AM
A0126050.d	N062642-001A	SAMP	1	01/27/24 1:26 AM
A0126052.d	CCV3	CCV	1	01/27/24 1:31 AM
A0126053.d	CCB3	CCB	1	01/27/24 1:36 AM
A0126054.d	ICSA2	ICSA	1	01/27/24 1:40 AM
A0126055.d	ICSAB2	ICSAB	1	01/27/24 1:45 AM
A0126056.d	MB-106327	MBLK	1	01/27/24 1:49 AM
A0126057.d	LCS-106327	LCS	1	01/27/24 1:54 AM
A0126058.d	N062596-001G	SAMP	1	01/27/24 1:59 AM
A0126059.d	N062596-001G	SAMP	5	01/27/24 2:03 AM
A0126060.d	N062596-001G-PS	PS	1	01/27/24 2:08 AM
A0126061.d	N062596-001G-MS	MS	1	01/27/24 2:13 AM
A0126062.d	N062596-001G-MSD	MSD	1	01/27/24 2:17 AM
A0126063.d	N062532-001E	SAMP	1	01/27/24 2:22 AM
A0126064.d	RINSE	ICAL	1	01/27/24 2:27 AM
A0126065.d	CCV4	CCV	1	01/27/24 2:31 AM
A0126066.d	CCB4	CCB	1	01/27/24 2:36 AM
A0126067.d	N062596-001G	SAMP	10	01/27/24 2:41 AM
A0126068.d	N062596-001G	SAMP	50	01/27/24 2:45 AM
A0126069.d	N062596-001G-PS	PS	10	01/27/24 2:50 AM
A0126070.d	N062596-001G-MS	MS	10	01/27/24 2:55 AM
A0126071.d	N062596-001G-MSD	MSD	10	01/27/24 2:59 AM
A0126072.d	N062532-001E	SAMP	10	01/27/24 3:04 AM
A0126073.d	CCV5	CCV	1	01/27/24 3:09 AM
A0126074.d	CCB5	CCB	1	01/27/24 3:13 AM
A0126075.d	ICSA3	ICSA	1	01/27/24 3:18 AM
A0126076.d	ICSAB3	ICSAB	1	01/27/24 3:23 AM
A0126077.d	RINSE	ICAL	1	01/27/24 3:27 AM
A0126078.d	RINSE	ICAL	1	01/27/24 3:32 AM
A0126079.d	RINSE	ICAL	1	01/27/24 3:37 AM
A0126080.d	RINSE	ICAL	1	01/27/24 3:41 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:47:25 AM

Reviewed/ Date: *JRB* 2/14/2024

Page: 1 of 2

Prep End Date: 1/11/2024 4:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105986 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-04-36

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-105986	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-105986	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062311-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-006CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/11/2024 11:47:25 AM

Reviewed/ Date: JRB 2/14/2024

Prep End Date: 1/11/2024 4:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 105986 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-04-36

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062312-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062312-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240110A1.b
Acq. Date-Time 2024-01-11 13:00:05
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

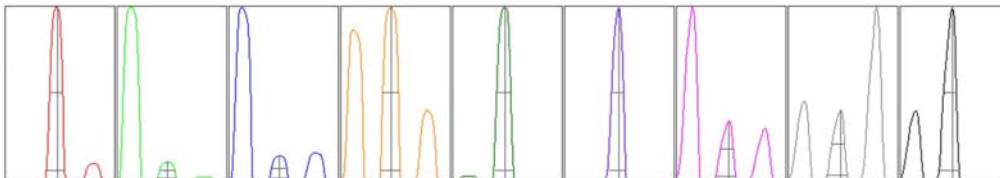
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	11260	112597.50	500.00		2.261	5.000
24	10.00	33485	334845.74	500.00		2.232	5.000
25	10.00	4451	44507.11	500.00		2.971	5.000
26	10.00	5071	50710.20	500.00		2.373	5.000
59	10.00	44551	445507.83	500.00		2.423	5.000
115	10.00	52369	523690.63	500.00		2.194	5.000
206	10.00	8641	86409.97	500.00		2.280	5.000
207	10.00	7351	73508.19	500.00		2.434	5.000
208	10.00	17964	179641.43	500.00		2.401	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.846 %
Doubly Charged 70 / 140 1.068 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11548.55	8.95	8.90 - 9.10	
24	34858.90	23.90	23.90 - 24.10	
25	4539.92	24.90	24.90 - 25.10	
26	5221.65	25.90	25.90 - 26.10	
59	44582.56	58.95	58.90 - 59.10	
115	52921.91	115.00	114.90 - 115.10	
206	8842.02	205.95	205.90 - 206.10	
207	7730.80	206.95	206.90 - 207.10	
208	19415.89	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.523	0.900	
25	0.41	0.497	0.900	
26	0.43	0.539	0.900	
59	0.39	0.534	0.900	
115	0.34	0.488	0.900	
206	0.36	0.547	0.900	
207	0.36	0.570	0.900	
208	0.36	0.565	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2489 V Pulse HV 1556 V

[H2]

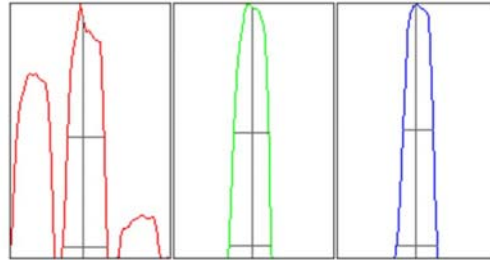
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		295	2950.86			6.274	
59		3519	35189.79			3.486	
115		45963	459634.94			2.276	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.661 %
 Doubly Charged 70 / 140 0.387 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	312.04	25.90	25.90 - 26.10	
59	3640.11	59.00	58.90 - 59.10	
115	47264.94	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.830	0.900	
59	0.66	0.786	0.900	
115	0.58	0.761	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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[He]

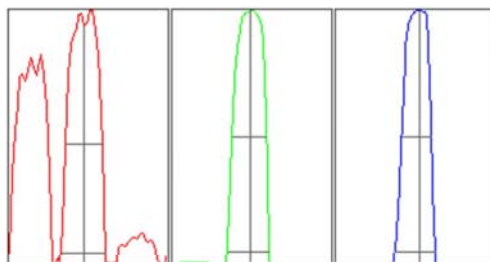
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		123	1226.24			9.347	
59		9311	93114.79			2.383	
115		9087	90868.91			2.840	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.295 %
Doubly Charged	70 / 140 1.165 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	117.26	25.95	25.90 - 26.10	
59	9307.29	59.00	58.90 - 59.10	
115	9150.72	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.70	0.830	0.900	
59	0.66	0.785	0.900	
115	0.57	0.756	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2489 V	Pulse HV	1556 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240111A.b
Acq. Date-Time 2024-01-12 11:10:02
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

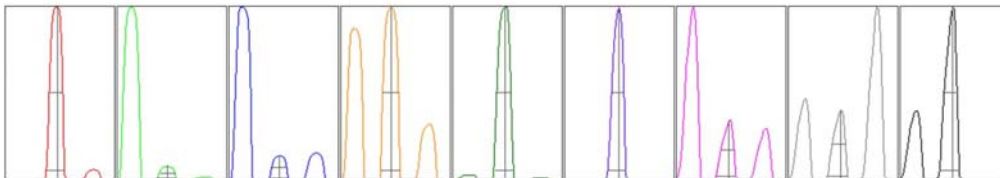
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6100	60995.11	500.00		2.482	5.000
24	10.00	22500	225003.21	500.00		2.085	5.000
25	10.00	2954	29535.11	500.00		2.665	5.000
26	10.00	3317	33167.99	500.00		2.812	5.000
59	10.00	27665	276648.25	500.00		1.919	5.000
115	10.00	36100	360996.89	500.00		1.865	5.000
206	10.00	6660	66595.94	500.00		1.647	5.000
207	10.00	5557	55569.75	500.00		2.352	5.000
208	10.00	13812	138124.61	500.00		1.845	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.604 %
Doubly Charged 70 / 140 0.881 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6053.27	8.95	8.90 - 9.10	
24	22930.81	23.90	23.90 - 24.10	
25	3023.02	24.90	24.90 - 25.10	
26	3425.53	25.90	25.90 - 26.10	
59	27449.22	58.95	58.90 - 59.10	
115	35666.55	115.00	114.90 - 115.10	
206	6529.01	205.95	205.90 - 206.10	
207	5647.40	206.95	206.90 - 207.10	
208	14210.61	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.488	0.900	
24	0.42	0.529	0.900	
25	0.42	0.505	0.900	
26	0.43	0.539	0.900	
59	0.39	0.535	0.900	
115	0.35	0.486	0.900	
206	0.37	0.543	0.900	
207	0.37	0.553	0.900	
208	0.36	0.556	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2494 V Pulse HV 1559 V

[H2]

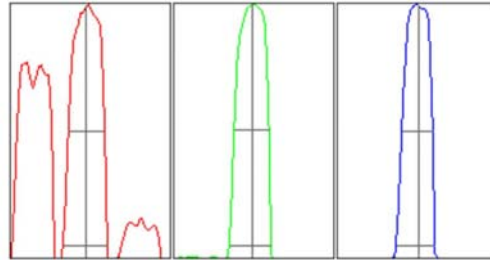
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		177	1765.49			9.866	
59		1780	17795.12			3.589	
115		27806	278057.36			2.372	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.488 %
 Doubly Charged 70 / 140 0.264 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	189.27	25.95	25.90 - 26.10	
59	1888.63	59.00	58.90 - 59.10	
115	28953.82	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.828	0.900	
59	0.66	0.784	0.900	
115	0.59	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9999	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2494 V	Pulse HV	1559 V
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[He]

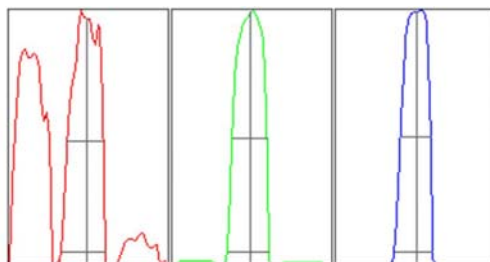
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		80	799.82			11.909	
59		5663	56633.40			2.103	
115		5198	51977.12			1.922	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.210 %
Doubly Charged	70 / 140 0.994 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	84.25	26.00	25.90 - 26.10	
59	5714.24	59.00	58.90 - 59.10	
115	5225.73	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.827	0.900	
59	0.66	0.784	0.900	
115	0.58	0.727	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2494 V	Pulse HV	1559 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240113A.b
Acq. Date-Time 2024-01-14 08:51:07
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

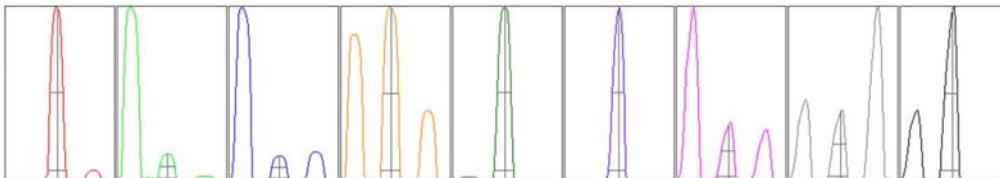
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9326	93259.41	500.00		2.333	5.000
24	10.00	28090	280898.49	500.00		1.709	5.000
25	10.00	3780	37797.56	500.00		2.250	5.000
26	10.00	4372	43722.12	500.00		2.599	5.000
59	10.00	39696	396963.60	500.00		1.701	5.000
115	10.00	47956	479557.06	500.00		1.695	5.000
206	10.00	9487	94867.57	500.00		2.040	5.000
207	10.00	7825	78250.73	500.00		1.877	5.000
208	10.00	19385	193852.31	500.00		1.541	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.521 %
Doubly Charged 70 / 140 1.076 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9412.89	8.95	8.90 - 9.10	
24	28880.51	23.90	23.90 - 24.10	
25	3775.56	24.90	24.90 - 25.10	
26	4445.67	25.90	25.90 - 26.10	
59	39132.45	58.95	58.90 - 59.10	
115	46438.76	115.00	114.90 - 115.10	
206	8604.67	205.95	205.90 - 206.10	
207	7617.75	206.95	206.90 - 207.10	
208	19227.72	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.496	0.900	
25	0.41	0.494	0.900	
26	0.43	0.536	0.900	
59	0.38	0.530	0.900	
115	0.33	0.474	0.900	
206	0.36	0.528	0.900	
207	0.36	0.535	0.900	
208	0.35	0.531	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2506 V Pulse HV 1566 V

[H2]

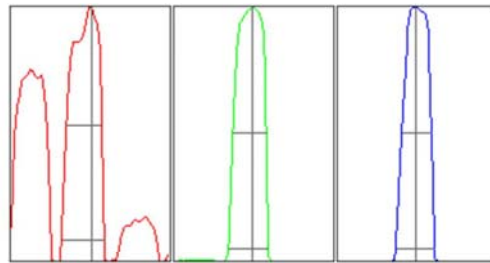
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		240	2398.17			7.036	
59		4138	41377.18			2.586	
115		39171	391713.64			1.934	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.385 %
 Doubly Charged 70 / 140 0.367 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	269.28	26.05	25.90 - 26.10	
59	4272.64	59.00	58.90 - 59.10	
115	40458.99	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.811	0.900	
59	0.63	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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[He]

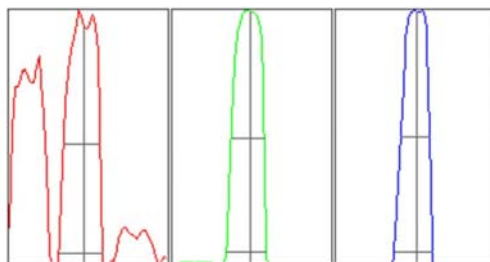
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		104	1043.03			9.506	
59		7991	79913.39			1.858	
115		7621	76207.58			2.391	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.157 %
Doubly Charged	70 / 140 1.261 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	105.26	25.95	25.90 - 26.10	
59	8020.78	59.00	58.90 - 59.10	
115	7603.42	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.828	0.900	
59	0.63	0.743	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240116A1.b
Acq. Date-Time 2024-01-17 11:43:53
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

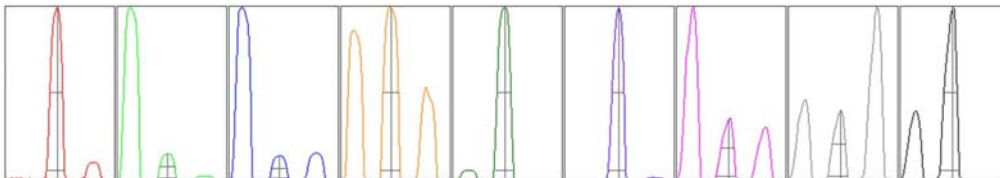
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	1545	15451.30	500.00		3.513	5.000
24	10.00	7260	72603.77	500.00		1.919	5.000
25	10.00	951	9506.44	500.00		2.767	5.000
26	10.00	1085	10848.65	500.00		3.004	5.000
59	10.00	7782	77819.93	500.00		2.261	5.000
115	10.00	2328	23283.98	500.00		2.754	5.000
206	10.00	2433	24329.99	500.00		3.141	5.000
207	10.00	1991	19911.06	500.00		3.124	5.000
208	10.00	4954	49536.44	500.00		2.463	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.935 %
Doubly Charged 70 / 140 0.925 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	1582.02	8.95	8.90 - 9.10	
24	7469.02	23.90	23.90 - 24.10	
25	975.81	24.90	24.90 - 25.10	
26	1116.90	25.90	25.90 - 26.10	
59	7741.73	58.95	58.90 - 59.10	
115	2367.33	115.00	114.90 - 115.10	
206	2349.68	205.95	205.90 - 206.10	
207	2040.47	206.95	206.90 - 207.10	
208	5164.39	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.36	0.484	0.900	
24	0.41	0.504	0.900	
25	0.41	0.494	0.900	
26	0.43	0.537	0.900	
59	0.39	0.532	0.900	
115	0.34	0.481	0.900	
206	0.37	0.543	0.900	
207	0.37	0.545	0.900	
208	0.37	0.539	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2514 V Pulse HV 1572 V

[H2]

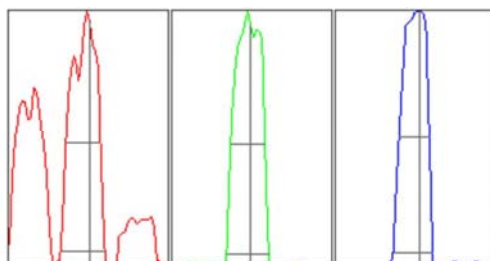
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		55	554.81			13.186	
59		513	5129.39			4.987	
115		1934	19340.52			3.539	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.755 %
 Doubly Charged 70 / 140 0.311 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	65.25	26.05	25.90 - 26.10	
59	512.34	59.00	58.90 - 59.10	
115	2036.62	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.826	0.900	
59	0.65	0.786	0.900	
115	0.58	0.739	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1572 V
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[He]

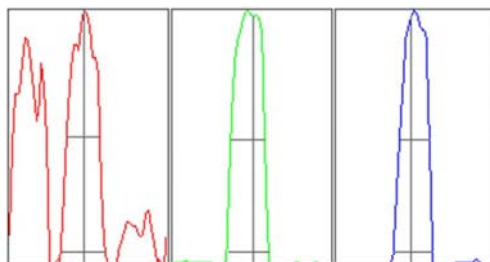
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		23	228.40			23.807	
59		1514	15138.69			3.285	
115		440	4398.21			5.737	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.299 %
Doubly Charged	70 / 140 0.906 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	25.25	25.95	25.90 - 26.10	
59	1495.72	59.05	58.90 - 59.10	
115	465.33	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.62	0.829	0.900	
59	0.64	0.784	0.900	
115	0.57	0.735	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1572 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240124A.b
Acq. Date-Time 2024-01-26 21:22:35
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

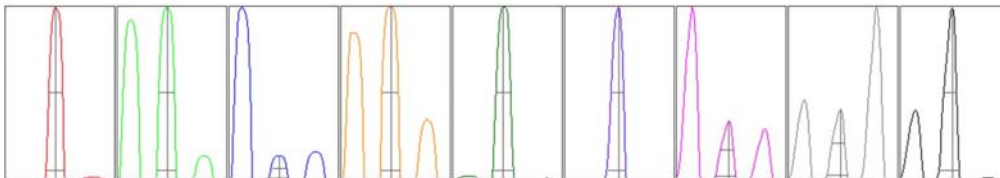
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6738	67375.50	500.00		2.300	5.000
24	10.00	20529	205285.92	500.00		2.813	5.000
25	10.00	2719	27189.23	500.00		3.545	5.000
26	10.00	3132	31319.11	500.00		3.332	5.000
59	10.00	32000	320003.34	500.00		2.607	5.000
115	10.00	41419	414185.12	500.00		2.468	5.000
206	10.00	7379	73785.00	500.00		2.198	5.000
207	10.00	6058	60576.34	500.00		2.145	5.000
208	10.00	15178	151776.98	500.00		2.527	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.706 %
Doubly Charged 70 / 140 1.892 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6863.28	8.90	8.90 - 9.10	
24	20930.30	23.90	23.90 - 24.10	
25	2733.02	24.90	24.90 - 25.10	
26	3192.84	25.90	25.90 - 26.10	
59	31281.82	58.90	58.90 - 59.10	
115	39923.01	115.00	114.90 - 115.10	
206	7463.97	205.95	205.90 - 206.10	
207	6559.64	206.95	206.90 - 207.10	
208	16200.24	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.491	0.900	
24	0.43	0.541	0.900	
25	0.43	0.536	0.900	
26	0.46	0.541	0.900	
59	0.41	0.572	0.900	
115	0.35	0.515	0.900	
206	0.36	0.560	0.900	
207	0.36	0.574	0.900	
208	0.36	0.572	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.4 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2515 V Pulse HV 1585 V

[H2]

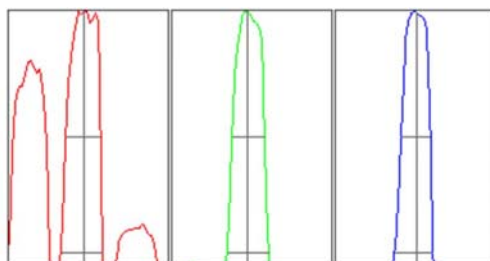
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		172	1722.69			7.772	
59		2297	22972.45			3.143	
115		32795	327951.31			2.565	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.587 %
 Doubly Charged 70 / 140 0.370 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	181.77	25.95	25.90 - 26.10	
59	2448.62	58.95	58.90 - 59.10	
115	34120.21	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.783	0.900	
59	0.62	0.778	0.900	
115	0.56	0.721	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2515 V	Pulse HV	1585 V
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[He]

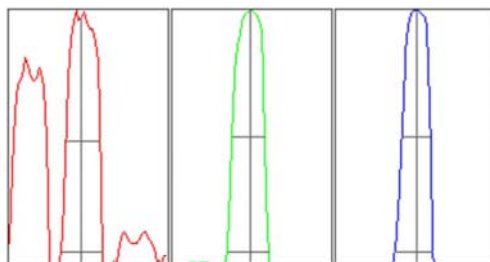
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		78	776.22			10.769	
59		6713	67127.92			2.339	
115		6307	63072.04			2.641	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.235 %
Doubly Charged	70 / 140 1.064 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	79.00	25.90	25.90 - 26.10	
59	6851.57	59.00	58.90 - 59.10	
115	6447.98	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.777	0.900	
59	0.62	0.778	0.900	
115	0.55	0.713	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.4 mm
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EM

Discriminator	4.5 mV	Analog HV	2515 V	Pulse HV	1585 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240111A

Instrument ID: ICPMS-03

Analyte	Data File	A0111003.d	A0111004.d	A0111005.d	A0111006.d	A0111007.d	A0111008.d	A0111009.d	A0111010.d	A0111011.d	
	Acq. Date-Time	01/11/2024 01:17 PM	01/11/2024 01:21 PM	01/11/2024 01:26 PM	01/11/2024 01:31 PM	01/11/2024 01:36 PM	01/11/2024 01:40 PM	01/11/2024 01:45 PM	01/11/2024 01:50 PM	01/11/2024 01:55 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	54104.9		52994.9	53388.3	53436.1	52906.7	53081.8	53161	52955.8	
55 Mn [2]	CPS	147.8		977.4	9596.8	18791.4	37386.4	76425.6	193013.3	390143.5	1.0000
72 Ge (ISTD) [2]	CPS	31649.5	31926.6	31629.4	31622.7	31857.6	31194.2	31915.5	31804.2	31541.4	
75 As [2]	CPS	6.6	45.5	208.8	2197.8	4507.2	8901	18160.8	46038.1	94109.6	0.9999
159 Tb (ISTD) [3]	CPS	2182441.4		2212831	2214052.9	2226157.9	2180934.3	2252531.1	2260097.9	2282692.2	
137 Ba [3]	CPS	56.7		2126.8	22479.8	44915	89617.6	185991.6	473961.6	956027.5	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240112A

Instrument ID: ICPMS-03

Analyte	Data File	A0112003.d	A0112004.d	A0112005.d	A0112006.d	A0112007.d	A0112008.d	A0112009.d	A0112010.d	A0112011.d	
	Acq. Date-Time	01/12/2024 12:03 PM	01/12/2024 12:08 PM	01/12/2024 12:12 PM	01/12/2024 12:17 PM	01/12/2024 12:22 PM	01/12/2024 12:27 PM	01/12/2024 12:31 PM	01/12/2024 12:36 PM	01/12/2024 12:41 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	44547		44705.1	44881.2	45193.1	44414.4	44471.2	44756.4	44512.4	
55 Mn [2]	CPS	132.1		793	8046.6	15880.6	32504.6	65699.3	163640.6	328485.3	1.0000
72 Ge (ISTD) [2]	CPS	27855.9	27540.9	27242.7	27617.8	27889.3	27498.7	27752.4	27293.8	27280.5	
75 As [2]	CPS	9.9	39.9	196.6	1912.2	3767	7735	15620.5	38891.9	79851.3	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240114A

Instrument ID: ICPMS-03

Analyte	Data File	A0114003.d	A0114004.d	A0114005.d	A0114006.d	A0114007.d	A0114008.d	A0114009.d	A0114010.d	A0114011.d	
	Acq. Date-Time	01/14/2024 12:29 PM	01/14/2024 12:34 PM	01/14/2024 12:39 PM	01/14/2024 12:44 PM	01/14/2024 12:48 PM	01/14/2024 12:53 PM	01/14/2024 12:58 PM	01/14/2024 01:03 PM	01/14/2024 01:07 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R
72 Ge (ISTD) [2]	CPS	33804.8	35594.2	35545.2	35031.9	35195.6	34457.3	35373.7	35286.9	34834.8	
75 As [2]	CPS	7.7	74.4	265.5	2522.3	5086.2	10137.3	21085.3	52043.6	105106.7	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240117A

Instrument ID: ICPMS-03

Analyte	Data File	A0117003.d	A0117004.d	A0117005.d	A0117006.d	A0117007.d	A0117008.d	A0117009.d	A0117010.d	A0117011.d	R
	Acq. Date-Time	01/17/2024 12:03 PM	01/17/2024 12:07 PM	01/17/2024 12:12 PM	01/17/2024 12:17 PM	01/17/2024 12:22 PM	01/17/2024 12:26 PM	01/17/2024 12:31 PM	01/17/2024 12:36 PM	01/17/2024 12:41 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
72 Ge (ISTD) [2]	CPS	27222.6	28708.5	28881	29240.5	29302.8	28030.7	28539.3	28277.7	28085.2	
75 As [2]	CPS	7.8	33.3	187.8	1950	3952.6	7790.6	15645	39322	79173.7	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240126A

Instrument ID: ICPMS-03

Analyte	Data File	A0126003.d	A0126004.d	A0126005.d	A0126006.d	A0126007.d	A0126008.d	A0126009.d	A0126010.d	A0126011.d	
	Acq. Date-Time	01/26/2024 09:40 PM	01/26/2024 09:45 PM	01/26/2024 09:50 PM	01/26/2024 09:55 PM	01/26/2024 09:59 PM	01/26/2024 10:04 PM	01/26/2024 10:09 PM	01/26/2024 10:14 PM	01/26/2024 10:18 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R
72 Ge (ISTD) [2]	CPS	24789.9	25172.7	24774.3	24728.8	24925.7	24427.2	24657.5	24923.5	25095.9	
75 As [2]	CPS	8.9	45.5	162.2	1681.1	3514.7	7207	14560.7	36555.6	74227.3	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062312
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.111	0.10	10.00	0	101	90	110				
Barium	10.055	1.0	10.00	0	101	90	110				
Manganese	100.729	0.50	100.0	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZZ	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617246						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.035	1.0	1.000	0	104	80	120				
Manganese	0.506	0.50	0.5000	0	101	80	120				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZZ	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617247						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.112	0.10	0.1000	0	112	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617248						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.282	0.10	20.00	0	96.4	90	110				
Barium	19.219	1.0	20.00	0	96.1	90	110				
Manganese	19.409	0.50	20.00	0	97.0	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.090	0.10	20.00	0	95.4	90	110				
Barium	19.433	1.0	20.00	0	97.2	90	110				
Manganese	19.486	0.50	20.00	0	97.4	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.112	1.0	20.00	0	95.6	90	110				
Manganese	19.257	0.50	20.00	0	96.3	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617281						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.949	0.10	20.00	0	94.7	90	110				
Barium	19.180	1.0	20.00	0	95.9	90	110				
Manganese	19.329	0.50	20.00	0	96.6	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCV	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.195	0.10	20.00	0	96.0	90	110				
Barium	19.301	1.0	20.00	0	96.5	90	110				
Manganese	19.353	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617307			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.198	0.10	20.00	0	96.0	90	110				
Barium	19.141	1.0	20.00	0	95.7	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617318			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.891	0.10	20.00	0	94.5	90	110				
Barium	19.516	1.0	20.00	0	97.6	90	110				
Manganese	19.847	0.50	20.00	0	99.2	90	110				

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619413			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.783	0.10	20.00	0	93.9	90	110				
Barium	19.599	1.0	20.00	0	98.0	90	110				
Manganese	19.546	0.50	20.00	0	97.7	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619424			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.315	0.10	20.00	0	96.6	90	110				
Barium	19.697	1.0	20.00	0	98.5	90	110				
Manganese	19.697	0.50	20.00	0	98.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619435			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.760	0.10	20.00	0	93.8	90	110				
Barium	19.809	1.0	20.00	0	99.0	90	110				
Manganese	19.675	0.50	20.00	0	98.4	90	110				

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619448			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.937	0.10	20.00	0	94.7	90	110				
Barium	19.483	1.0	20.00	0	97.4	90	110				
Manganese	19.699	0.50	20.00	0	98.5	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619459			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.943	0.10	20.00	0	94.7	90	110				
Barium	19.794	1.0	20.00	0	99.0	90	110				
Manganese	20.012	0.50	20.00	0	100	90	110				

Sample ID: CCV12		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619470			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.828	0.10	20.00	0	94.1	90	110				
Barium	19.749	1.0	20.00	0	98.7	90	110				
Manganese	19.896	0.50	20.00	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV13		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619483			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.074	0.10	20.00	0	95.4	90	110				
Barium	19.384	1.0	20.00	0	96.9	90	110				
Manganese	19.993	0.50	20.00	0	100	90	110				

Sample ID: CCV14		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619494			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.003	0.10	20.00	0	95.0	90	110				
Barium	19.503	1.0	20.00	0	97.5	90	110				
Manganese	19.664	0.50	20.00	0	98.3	90	110				

Sample ID: CCV15		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619505			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.672	0.10	20.00	0	93.4	90	110				
Barium	19.255	1.0	20.00	0	96.3	90	110				
Manganese	19.976	0.50	20.00	0	99.9	90	110				

Sample ID: CCV16		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: CCV		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/12/2024		SeqNo: 5619516			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.806	0.10	20.00	0	94.0	90	110				
Barium	19.377	1.0	20.00	0	96.9	90	110				
Manganese	20.020	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.121	0.10	10.00	0	101	90	110				
Manganese	101.749	0.50	100.0	0	102	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ZZZZZZ	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.111	0.10	0.1000	0	111	80	120				
Manganese	0.489	0.50	0.5000	0	97.8	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.011	0.10	20.00	0	95.1	90	110				
Manganese	19.336	0.50	20.00	0	96.7	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626040							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.343	0.10	20.00	0	96.7	90	110				
Manganese	19.968	0.50	20.00	0	99.8	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626045							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.819	0.10	20.00	0	94.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.957	0.50	20.00	0	99.8	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626056						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.387	0.10	20.00	0	96.9	90	110				
Manganese	20.100	0.50	20.00	0	100	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.121	0.10	20.00	0	95.6	90	110				
Manganese	20.018	0.50	20.00	0	100	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.721	0.10	20.00	0	93.6	90	110				
Manganese	20.294	0.50	20.00	0	101	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.623	0.10	20.00	0	93.1	90	110				
Manganese	20.562	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626103							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.720	0.10	20.00	0	93.6	90	110				
Manganese	20.303	0.50	20.00	0	102	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.229	0.10	20.00	0	96.1	90	110				
Manganese	20.413	0.50	20.00	0	102	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626129							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.311	0.10	20.00	0	96.6	90	110				
Manganese	20.629	0.50	20.00	0	103	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626142							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.682	0.10	20.00	0	93.4	90	110				
Manganese	20.618	0.50	20.00	0	103	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626151							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.851	0.10	20.00	0	94.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.439	0.50	20.00	0	102	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.648	0.10	20.00	0	93.2	90	110				
Manganese	20.903	0.50	20.00	0	105	90	110				

Sample ID: CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.046	0.10	20.00	0	95.2	90	110				
Manganese	20.553	0.50	20.00	0	103	90	110				

Sample ID: CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.282	0.10	20.00	0	96.4	90	110				
Manganese	21.062	0.50	20.00	0	105	90	110				

Sample ID: CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.461	0.10	20.00	0	97.3	90	110				
Manganese	20.663	0.50	20.00	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626208							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.760	0.10	20.00	0	93.8	90	110				
Manganese	21.326	0.50	20.00	0	107	90	110				

Sample ID: CCV17	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626215							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.814	0.10	20.00	0	94.1	90	110				
Manganese	20.885	0.50	20.00	0	104	90	110				

Sample ID: CCV18	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626228							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.639	0.10	20.00	0	93.2	90	110				
Manganese	21.073	0.50	20.00	0	105	90	110				

Sample ID: CCV19	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCV	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.980	0.10	20.00	0	94.9	90	110				
Manganese	21.248	0.50	20.00	0	106	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062312
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.019	0.10	10.00	0	100	90	110				
Barium	10.121	1.0	10.00	0	101	90	110				
Manganese	100.530	0.50	100.0	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ZZZZZ	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630515						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.120	0.10	0.1000	0	120	80	120				
Barium	1.030	1.0	1.000	0	103	80	120				
Manganese	0.544	0.50	0.5000	0	109	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630516						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.547	0.10	20.00	0	97.7	90	110				
Barium	19.615	1.0	20.00	0	98.1	90	110				
Manganese	20.189	0.50	20.00	0	101	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.303	0.10	20.00	0	96.5	90	110				
Barium	20.120	1.0	20.00	0	101	90	110				
Manganese	19.989	0.50	20.00	0	99.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.526	0.10	20.00	0	97.6	90	110				
Barium	19.885	1.0	20.00	0	99.4	90	110				
Manganese	20.203	0.50	20.00	0	101	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.998	0.10	20.00	0	95.0	90	110				
Barium	20.156	1.0	20.00	0	101	90	110				
Manganese	19.696	0.50	20.00	0	98.5	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.640	0.10	20.00	0	98.2	90	110				
Barium	20.037	1.0	20.00	0	100	90	110				
Manganese	19.820	0.50	20.00	0	99.1	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.152	0.10	20.00	0	95.8	90	110				
Barium	20.318	1.0	20.00	0	102	90	110				
Manganese	19.800	0.50	20.00	0	99.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630585						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.672	0.10	20.00	0	98.4	90	110				
Barium	20.039	1.0	20.00	0	100	90	110				
Manganese	19.969	0.50	20.00	0	99.8	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.135	0.10	20.00	0	95.7	90	110				
Barium	19.891	1.0	20.00	0	99.5	90	110				
Manganese	19.907	0.50	20.00	0	99.5	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.697	0.10	20.00	0	98.5	90	110				
Barium	20.272	1.0	20.00	0	101	90	110				
Manganese	19.929	0.50	20.00	0	99.6	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630617						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.222	0.10	20.00	0	96.1	90	110				
Barium	20.222	1.0	20.00	0	101	90	110				
Manganese	19.869	0.50	20.00	0	99.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630630						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.190	0.10	20.00	0	95.9	90	110				
Barium	20.208	1.0	20.00	0	101	90	110				
Manganese	20.045	0.50	20.00	0	100	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.247	0.10	20.00	0	96.2	90	110				
Barium	20.253	1.0	20.00	0	101	90	110				
Manganese	20.308	0.50	20.00	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: ICV	Batch ID: R180519	TestNo: EPA 6020	Analysis Date: 1/17/2024	SeqNo: 5632298	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	10.157	0.10	10.00	0	102 90 110

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: ZZZZZ	Batch ID: R180519	TestNo: EPA 6020	Analysis Date: 1/17/2024	SeqNo: 5632298	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	0.105	0.10	0.1000	0	105 80 120

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCV	Batch ID: R180519	TestNo: EPA 6020	Analysis Date: 1/17/2024	SeqNo: 5632299	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.338	0.10	20.00	0	96.7 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCV	Batch ID: R180519	TestNo: EPA 6020	Analysis Date: 1/17/2024	SeqNo: 5632308	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	20.163	0.10	20.00	0	101 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCV	Batch ID: R180519	TestNo: EPA 6020	Analysis Date: 1/17/2024	SeqNo: 5632316	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.517	0.10	20.00	0	97.6 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519						
Client ID: CCV	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.398	0.10	20.00	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: ICV	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651673	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	10.606	0.10	10.00	0	106 90 110

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: ZZZZZ	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651676	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	0.087	0.10	0.1000	0	86.8 80 120

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCV	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651677	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.797	0.10	20.00	0	99.0 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCV	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651689	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.542	0.10	20.00	0	97.7 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCV	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/27/2024	SeqNo: 5651701	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.648	0.10	20.00	0	98.2 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856						
Client ID: CCV	Batch ID: R180856	TestNo: EPA 6020		Analysis Date: 1/27/2024	SeqNo: 5651711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.885	0.10	20.00	0	99.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617282						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619414						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5619436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619471						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.032	0.50									

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.028	0.50									

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: CCB	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626143						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626209						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB18	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626229						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB19	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: CCB	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/13/2024	SeqNo: 5626240						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630514						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630631						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: ICB	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632297
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCB	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632309
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCB	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632317
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519
Client ID: CCB	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632327
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: ICB	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651674	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCB	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/26/2024	SeqNo: 5651690	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCB	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/27/2024	SeqNo: 5651702	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180856
Client ID: CCB	Batch ID: R180856	TestNo: EPA 6020	Analysis Date: 1/27/2024	SeqNo: 5651712	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA B	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.356	0.10	20.00	0	102	80	120				
Barium	20.242	1.0	20.00	0	101	80	120				
Manganese	20.292	0.50	20.00	0	101	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617283						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA B	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/11/2024	SeqNo: 5617284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.191	0.10	20.00	0	101	80	120				
Barium	19.985	1.0	20.00	0	99.9	80	120				
Manganese	20.045	0.50	20.00	0	100	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617320			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5617321			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.612	0.10	20.00	0	98.1	80	120				
Barium	20.248	1.0	20.00	0	101	80	120				
Manganese	20.509	0.50	20.00	0	103	80	120				

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619437			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180301			
Client ID: ICSA		Batch ID: R180301		TestNo: EPA 6020		Analysis Date: 1/11/2024		SeqNo: 5619438			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.641	0.10	20.00	0	98.2	80	120				
Barium	20.304	1.0	20.00	0	102	80	120				
Manganese	20.433	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.119	0.10	20.00	0	101	80	120
Barium	20.077	1.0	20.00	0	100	80	120
Manganese	20.777	0.50	20.00	0	104	80	120

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619518						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ICSA	Batch ID: R180301	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5619519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.787	0.10	20.00	0	98.9	80	120
Barium	19.885	1.0	20.00	0	99.4	80	120
Manganese	20.945	0.50	20.00	0	105	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA B	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.792	0.10	20.00	0	99.0	80	120				
Manganese	20.433	0.50	20.00	0	102	80	120				

Sample ID: ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA B	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.912	0.10	20.00	0	99.6	80	120				
Manganese	20.635	0.50	20.00	0	103	80	120				

Sample ID: ICSA 3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020		Analysis Date: 1/12/2024	SeqNo: 5626067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626067	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626068	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.793	0.10	20.00	0	99.0	80	120				
Manganese	20.228	0.50	20.00	0	101	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626105	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626106	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.545	0.10	20.00	0	103	80	120				
Manganese	21.005	0.50	20.00	0	105	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626131	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/12/2024	SeqNo: 5626132							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.416	0.10	20.00	0	97.1	80	120				
Manganese	21.131	0.50	20.00	0	106	80	120				

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626153							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSAB6	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626154							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	80	120				
Manganese	21.083	0.50	20.00	0	105	80	120				

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626186							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSAB7	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626187							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.856	0.10	20.00	0	99.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB7	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626187	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	21.724	0.50	20.00	0	109	80	120
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Sample ID: ICSA8	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626217	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10					
Manganese	ND	0.50					

Sample ID: ICSAB8	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626218	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.336	0.10	20.00	0	96.7	80	120
Manganese	21.488	0.50	20.00	0	107	80	120

Sample ID: ICSA9	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSA	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626241	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10					
Manganese	ND	0.50					

Sample ID: ICSAB9	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400
Client ID: ICSAB	Batch ID: R180400	TestNo: EPA 6020	Analysis Date: 1/13/2024	SeqNo: 5626242	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.395	0.10	20.00	0	97.0	80	120
Manganese	21.402	0.50	20.00	0	107	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630517			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA1		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630518			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.877	0.10	20.00	0	99.4	80	120				
Barium	20.372	1.0	20.00	0	102	80	120				
Manganese	20.267	0.50	20.00	0	101	80	120				

Sample ID: ICSA2		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630552			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA2		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630553			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.578	0.10	20.00	0	97.9	80	120				
Barium	20.362	1.0	20.00	0	102	80	120				
Manganese	20.373	0.50	20.00	0	102	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630588						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.698	0.10	20.00	0	98.5	80	120				
Barium	20.547	1.0	20.00	0	103	80	120				
Manganese	20.487	0.50	20.00	0	102	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.694	0.10	20.00	0	98.5	80	120				
Barium	20.637	1.0	20.00	0	103	80	120				
Manganese	20.267	0.50	20.00	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5630642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSAB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5630643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.951	0.10	20.00	0	99.8	80	120				
Barium	20.657	1.0	20.00	0	103	80	120				
Manganese	20.537	0.50	20.00	0	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062312
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519						
Client ID: ICSA	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632300						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519						
Client ID: ICSA	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 19.825 0.10 20.00 0 99.1 80 120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519						
Client ID: ICSA	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180519						
Client ID: ICSA	Batch ID: R180519	TestNo: EPA 6020		Analysis Date: 1/17/2024	SeqNo: 5632329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 19.756 0.10 20.00 0 98.8 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	2182441.4	2182441.4	100	PASS	30-150	54104.9	54104.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	2226299.9	2182441.4	102.01	PASS	30-150	53213.2	54104.9	98.35	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	2212831	2182441.4	101.39	PASS	30-150	52994.9	54104.9	97.95	PASS	30-150
Std3-5/50 ppb	ICAL	1	2214052.9	2182441.4	101.45	PASS	30-150	53388.3	54104.9	98.68	PASS	30-150
Std4-10/100 ppb	ICAL	1	2226157.9	2182441.4	102	PASS	30-150	53436.1	54104.9	98.76	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	2180934.3	2182441.4	99.93	PASS	30-150	52906.7	54104.9	97.79	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	2252531.1	2182441.4	103.21	PASS	30-150	53081.8	54104.9	98.11	PASS	30-150
Std7-100/1000 ppb	ICAL	1	2260097.9	2182441.4	103.56	PASS	30-150	53161	54104.9	98.26	PASS	30-150
Std8-200/2000 ppb	ICAL	1	2282692.2	2182441.4	104.59	PASS	30-150	52955.8	54104.9	97.88	PASS	30-150
ICV	ICV	1	2272087.8	2182441.4	104.11	PASS	30-150	51646.1	54104.9	95.46	PASS	30-150
ICV	ICV	1	2265280.1	2182441.4	103.8	PASS	30-150	51276.2	54104.9	94.77	PASS	30-150
ICB	ICB	1	2249043.9	2182441.4	103.05	PASS	30-150	51223.8	54104.9	94.67	PASS	30-150
LLICV1	LLICV	1	2241968.1	2182441.4	102.73	PASS	30-150	51353	54104.9	94.91	PASS	30-150
LLICV1	LLICV	1	2254759	2182441.4	103.31	PASS	30-150	51306.2	54104.9	94.83	PASS	30-150
MLCCV	CCV	1	2321238.6	2182441.4	106.36	PASS	30-150	52654.8	54104.9	97.32	PASS	30-150
ICSA1	ICSA	1	2243263.8	2182441.4	102.79	PASS	30-150	51493.5	54104.9	95.17	PASS	30-150
ICSAB1	ICSAB	1	2222228.1	2182441.4	101.82	PASS	30-150	51377.6	54104.9	94.96	PASS	30-150
CCV1	CCV	1	2245880.5	2182441.4	102.91	PASS	30-150	50765.7	54104.9	93.83	PASS	30-150
CCB1	CCB	1	2218027.9	2182441.4	101.63	PASS	30-150	50377.9	54104.9	93.11	PASS	30-150
CCV2	CCV	1	2237225.3	2182441.4	102.51	PASS	30-150	47925.1	54104.9	88.58	PASS	30-150
CCB2	CCB	1	2197704.3	2182441.4	100.7	PASS	30-150	47475.1	54104.9	87.75	PASS	30-150
CCV3	CCV	1	2246812.3	2182441.4	102.95	PASS	30-150	46958	54104.9	86.79	PASS	30-150
CCB3	CCB	1	2209228.6	2182441.4	101.23	PASS	30-150	46005.3	54104.9	85.03	PASS	30-150
ICSA2	ICSA	1	2220320.8	2182441.4	101.74	PASS	30-150	46753	54104.9	86.41	PASS	30-150
ICSAB2	ICSAB	1	2230569.6	2182441.4	102.21	PASS	30-150	46785.3	54104.9	86.47	PASS	30-150
CCV4	CCV	1	2180321.7	2182441.4	99.9	PASS	30-150	45890.5	54104.9	84.82	PASS	30-150
CCB4	CCB	1	2165364.1	2182441.4	99.22	PASS	30-150	45021.6	54104.9	83.21	PASS	30-150
CCV5	CCV	1	2191510.6	2182441.4	100.42	PASS	30-150	45156.4	54104.9	83.46	PASS	30-150
CCB5	CCB	1	2159765.1	2182441.4	98.96	PASS	30-150	44545.9	54104.9	82.33	PASS	30-150
CCV6	CCV	1	2235308.4	2182441.4	102.42	PASS	30-150	45623.2	54104.9	84.32	PASS	30-150
CCB6	CCB	1	2223463.9	2182441.4	101.88	PASS	30-150	44705.2	54104.9	82.63	PASS	30-150
ICSA3	ICSA	1	2218568.6	2182441.4	101.66	PASS	30-150	44997	54104.9	83.17	PASS	30-150
ICSAB3	ICSAB	1	2237502.2	2182441.4	102.52	PASS	30-150	44992.6	54104.9	83.16	PASS	30-150
CCV7	CCV	1	2155432.2	2182441.4	98.76	PASS	30-150	43552.1	54104.9	80.5	PASS	30-150
CCB7	CCB	1	2138931.1	2182441.4	98.01	PASS	30-150	42994.1	54104.9	79.46	PASS	30-150
CCV8	CCV	1	2162790.7	2182441.4	99.1	PASS	30-150	43132.2	54104.9	79.72	PASS	30-150
CCB8	CCB	1	2136349.9	2182441.4	97.89	PASS	30-150	42400.3	54104.9	78.37	PASS	30-150
CCV9	CCV	1	2136356.8	2182441.4	97.89	PASS	30-150	42805.7	54104.9	79.12	PASS	30-150
CCB9	CCB	1	2130455.1	2182441.4	97.62	PASS	30-150	42239.9	54104.9	78.07	PASS	30-150
ICSA4	ICSA	1	2147967.6	2182441.4	98.42	PASS	30-150	42577.4	54104.9	78.69	PASS	30-150
ICSAB4	ICSAB	1	2141338.7	2182441.4	98.12	PASS	30-150	42727.8	54104.9	78.97	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	2132878.3	2182441.4	97.73	PASS	30-150	41451.3	54104.9	76.61	PASS	30-150
CCB10	CCB	1	2122477	2182441.4	97.25	PASS	30-150	40404.2	54104.9	74.68	PASS	30-150
CCV11	CCV	1	2109676.9	2182441.4	96.67	PASS	30-150	39536.6	54104.9	73.07	PASS	30-150
CCB11	CCB	1	2100798.4	2182441.4	96.26	PASS	30-150	38754.8	54104.9	71.63	PASS	30-150
CCV12	CCV	1	2115287	2182441.4	96.92	PASS	30-150	38446.4	54104.9	71.06	PASS	30-150
CCB12	CCB	1	2103273.1	2182441.4	96.37	PASS	30-150	37891.7	54104.9	70.03	PASS	30-150
ICSA5	ICSA	1	2088986.2	2182441.4	95.72	PASS	30-150	38029.9	54104.9	70.29	PASS	30-150
ICSAB5	ICSAB	1	2115311.4	2182441.4	96.92	PASS	30-150	37960.8	54104.9	70.16	PASS	30-150
MB-105986	MBLK	1	2105580.8	2182441.4	96.48	PASS	30-150	37486.4	54104.9	69.28	PASS	30-150
LCS-105986	LCS	1	2217881	2182441.4	101.62	PASS	30-150	38886.2	54104.9	71.87	PASS	30-150
N062311-001B	SAMP	1	2086059.1	2182441.4	95.58	PASS	30-150	37324.9	54104.9	68.99	PASS	30-150
CCV13	CCV	1	2132862.2	2182441.4	97.73	PASS	30-150	37883.9	54104.9	70.02	PASS	30-150
CCB13	CCB	1	2113480.5	2182441.4	96.84	PASS	30-150	37608.9	54104.9	69.51	PASS	30-150
N062312-001C	SAMP	1	1536569.3	2182441.4	70.41	PASS	30-150	34193.8	54104.9	63.2	PASS	30-150
N062312-002C	SAMP	1	1557634.8	2182441.4	71.37	PASS	30-150	34904.2	54104.9	64.51	PASS	30-150
N062312-003C	SAMP	1	1735443.2	2182441.4	79.52	PASS	30-150	37723.6	54104.9	69.72	PASS	30-150
N062312-004C	SAMP	1	1701542.4	2182441.4	77.97	PASS	30-150	36516.5	54104.9	67.49	PASS	30-150
N062312-005C	SAMP	1	1781400.6	2182441.4	81.62	PASS	30-150	37303.8	54104.9	68.95	PASS	30-150
N062312-006C	SAMP	1	1711874.2	2182441.4	78.44	PASS	30-150	36080	54104.9	66.69	PASS	30-150
N062312-006C	SAMP	5	1882647.3	2182441.4	86.26	PASS	30-150	37506.4	54104.9	69.32	PASS	30-150
N062312-006C-PS	PS	1	1723201.3	2182441.4	78.96	PASS	30-150	35841.7	54104.9	66.24	PASS	30-150
N062312-006CMS	MS	1	1713093.4	2182441.4	78.49	PASS	30-150	36201.4	54104.9	66.91	PASS	30-150
CCV14	CCV	1	2119334.8	2182441.4	97.11	PASS	30-150	37670.1	54104.9	69.62	PASS	30-150
CCB14	CCB	1	2128026.3	2182441.4	97.51	PASS	30-150	36198	54104.9	66.9	PASS	30-150
N062312-006CMSD	MSD	1	1768379.4	2182441.4	81.03	PASS	30-150	34737.2	54104.9	64.2	PASS	30-150
N062312-007C	SAMP	1	1832134	2182441.4	83.95	PASS	30-150	35499.9	54104.9	65.61	PASS	30-150
N062312-008C	SAMP	1	1752043.3	2182441.4	80.28	PASS	30-150	35284.9	54104.9	65.22	PASS	30-150
N062312-010C	SAMP	1	1781682.1	2182441.4	81.64	PASS	30-150	36272.6	54104.9	67.04	PASS	30-150
N062312-011C	SAMP	1	1730527.2	2182441.4	79.29	PASS	30-150	35798.3	54104.9	66.16	PASS	30-150
N062312-012C	SAMP	1	1698228.9	2182441.4	77.81	PASS	30-150	34419.8	54104.9	63.62	PASS	30-150
N062312-013C	SAMP	1	1749855.4	2182441.4	80.18	PASS	30-150	35684.7	54104.9	65.95	PASS	30-150
N062312-014C	SAMP	1	1721640.3	2182441.4	78.89	PASS	30-150	35131.3	54104.9	64.93	PASS	30-150
N062312-015C	SAMP	1	1700557.7	2182441.4	77.92	PASS	30-150	34541.2	54104.9	63.84	PASS	30-150
CCV15	CCV	1	2108343	2182441.4	96.6	PASS	30-150	35454.2	54104.9	65.53	PASS	30-150
CCB15	CCB	1	2107288.7	2182441.4	96.56	PASS	30-150	34482.2	54104.9	63.73	PASS	30-150
N062312-016C	SAMP	1	1751986.1	2182441.4	80.28	PASS	30-150	33856.5	54104.9	62.58	PASS	30-150
N062312-017C	SAMP	1	1775074.2	2182441.4	81.33	PASS	30-150	33797.4	54104.9	62.47	PASS	30-150
N062312-018C	SAMP	1	1697106.4	2182441.4	77.76	PASS	30-150	34603.5	54104.9	63.96	PASS	30-150
CCV16	CCV	1	2119406.6	2182441.4	97.11	PASS	30-150	34183.8	54104.9	63.18	PASS	30-150
CCB16	CCB	1	2102232.7	2182441.4	96.32	PASS	30-150	32904.5	54104.9	60.82	PASS	30-150
ICSA6	ICSA	1	2083739	2182441.4	95.48	PASS	30-150	32919	54104.9	60.84	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSAB6	ICSAB	1	2124573.7	2182441.4	97.35	PASS	30-150	33139.4	54104.9	61.25	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	31649.5	31649.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	31926.6	31649.5	100.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	31629.4	31649.5	99.94	PASS	30-150
Std3-5/50 ppb	ICAL	1	31622.7	31649.5	99.92	PASS	30-150
Std4-10/100 ppb	ICAL	1	31857.6	31649.5	100.66	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	31194.2	31649.5	98.56	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	31915.5	31649.5	100.84	PASS	30-150
Std7-100/1000 ppb	ICAL	1	31804.2	31649.5	100.49	PASS	30-150
Std8-200/2000 ppb	ICAL	1	31541.4	31649.5	99.66	PASS	30-150
ICV	ICV	1	31124	31649.5	98.34	PASS	30-150
ICV	ICV	1	30451.6	31649.5	96.22	PASS	30-150
ICB	ICB	1	30244.6	31649.5	95.56	PASS	30-150
LLICV1	LLICV	1	30407.1	31649.5	96.08	PASS	30-150
LLICV1	LLICV	1	30802.3	31649.5	97.32	PASS	30-150
MLCCV	CCV	1	31412.3	31649.5	99.25	PASS	30-150
ICSA1	ICSA	1	30504	31649.5	96.38	PASS	30-150
ICSAB1	ICSAB	1	30481.7	31649.5	96.31	PASS	30-150
CCV1	CCV	1	30417.1	31649.5	96.11	PASS	30-150
CCB1	CCB	1	30412.7	31649.5	96.09	PASS	30-150
CCV2	CCV	1	28327.8	31649.5	89.5	PASS	30-150
CCB2	CCB	1	28904.4	31649.5	91.33	PASS	30-150
CCV3	CCV	1	28315.6	31649.5	89.47	PASS	30-150
CCB3	CCB	1	28133	31649.5	88.89	PASS	30-150
ICSA2	ICSA	1	27992.8	31649.5	88.45	PASS	30-150
ICSAB2	ICSAB	1	27815.9	31649.5	87.89	PASS	30-150
CCV4	CCV	1	27860.4	31649.5	88.03	PASS	30-150
CCB4	CCB	1	27600	31649.5	87.21	PASS	30-150
CCV5	CCV	1	27293.9	31649.5	86.24	PASS	30-150
CCB5	CCB	1	27360.6	31649.5	86.45	PASS	30-150
CCV6	CCV	1	27933.8	31649.5	88.26	PASS	30-150
CCB6	CCB	1	28129.7	31649.5	88.88	PASS	30-150
ICSA3	ICSA	1	27403	31649.5	86.58	PASS	30-150
ICSAB3	ICSAB	1	27499.8	31649.5	86.89	PASS	30-150
CCV7	CCV	1	26921	31649.5	85.06	PASS	30-150
CCB7	CCB	1	26730.7	31649.5	84.46	PASS	30-150
CCV8	CCV	1	26405.7	31649.5	83.43	PASS	30-150
CCB8	CCB	1	26130.9	31649.5	82.56	PASS	30-150
CCV9	CCV	1	26639.5	31649.5	84.17	PASS	30-150
CCB9	CCB	1	26029.6	31649.5	82.24	PASS	30-150
ICSA4	ICSA	1	26687.3	31649.5	84.32	PASS	30-150
ICSAB4	ICSAB	1	26315.6	31649.5	83.15	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	25573.3	31649.5	80.8	PASS	30-150
CCB10	CCB	1	25554.4	31649.5	80.74	PASS	30-150
CCV11	CCV	1	25153.8	31649.5	79.48	PASS	30-150
CCB11	CCB	1	24717.5	31649.5	78.1	PASS	30-150
CCV12	CCV	1	24467.2	31649.5	77.31	PASS	30-150
CCB12	CCB	1	24102.2	31649.5	76.15	PASS	30-150
ICSA5	ICSA	1	23923.1	31649.5	75.59	PASS	30-150
ICSAB5	ICSAB	1	24163.4	31649.5	76.35	PASS	30-150
MB-105986	MBLK	1	24272.5	31649.5	76.69	PASS	30-150
LCS-105986	LCS	1	24991.3	31649.5	78.96	PASS	30-150
N062311-001B	SAMP	1	23479.1	31649.5	74.18	PASS	30-150
CCV13	CCV	1	24268	31649.5	76.68	PASS	30-150
CCB13	CCB	1	24273.6	31649.5	76.7	PASS	30-150
N062312-001C	SAMP	1	20244.8	31649.5	63.97	PASS	30-150
N062312-002C	SAMP	1	20521.8	31649.5	64.84	PASS	30-150
N062312-003C	SAMP	1	22284.1	31649.5	70.41	PASS	30-150
N062312-004C	SAMP	1	21960.3	31649.5	69.39	PASS	30-150
N062312-005C	SAMP	1	22396.5	31649.5	70.76	PASS	30-150
N062312-006C	SAMP	1	21691.1	31649.5	68.54	PASS	30-150
N062312-006C	SAMP	5	23351.1	31649.5	73.78	PASS	30-150
N062312-006C-PS	PS	1	21498.6	31649.5	67.93	PASS	30-150
N062312-006CMS	MS	1	21458.6	31649.5	67.8	PASS	30-150
CCV14	CCV	1	23900.8	31649.5	75.52	PASS	30-150
CCB14	CCB	1	23490.2	31649.5	74.22	PASS	30-150
N062312-006CMSD	MSD	1	20765.4	31649.5	65.61	PASS	30-150
N062312-007C	SAMP	1	21395.1	31649.5	67.6	PASS	30-150
N062312-008C	SAMP	1	21123.6	31649.5	66.74	PASS	30-150
N062312-010C	SAMP	1	22153.9	31649.5	70	PASS	30-150
N062312-011C	SAMP	1	21114.8	31649.5	66.71	PASS	30-150
N062312-012C	SAMP	1	21021.3	31649.5	66.42	PASS	30-150
N062312-013C	SAMP	1	21389.6	31649.5	67.58	PASS	30-150
N062312-014C	SAMP	1	21563.1	31649.5	68.13	PASS	30-150
N062312-015C	SAMP	1	20966.8	31649.5	66.25	PASS	30-150
CCV15	CCV	1	22892.7	31649.5	72.33	PASS	30-150
CCB15	CCB	1	22454.3	31649.5	70.95	PASS	30-150
N062312-016C	SAMP	1	20421.7	31649.5	64.52	PASS	30-150
N062312-017C	SAMP	1	20825.5	31649.5	65.8	PASS	30-150
N062312-018C	SAMP	1	21018	31649.5	66.41	PASS	30-150
CCV16	CCV	1	22096	31649.5	69.81	PASS	30-150
CCB16	CCB	1	21978.1	31649.5	69.44	PASS	30-150
ICSA6	ICSA	1	21595.4	31649.5	68.23	PASS	30-150

INTERNAL STANDARD: 240111A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSAB6	ICSAB	1	21648.8	31649.5	68.4	PASS	30-150

INTERNAL STANDARD: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	44547	44547	100	PASS	30-150	27855.9	27855.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	44618.2	44547	100.16	PASS	30-150	27540.9	27855.9	98.87	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	44705.1	44547	100.35	PASS	30-150	27242.7	27855.9	97.8	PASS	30-150
Std3-5/50 ppb	ICAL	1	44881.2	44547	100.75	PASS	30-150	27617.8	27855.9	99.15	PASS	30-150
Std4-10/100 ppb	ICAL	1	45193.1	44547	101.45	PASS	30-150	27889.3	27855.9	100.12	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	44414.4	44547	99.7	PASS	30-150	27498.7	27855.9	98.72	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	44471.2	44547	99.83	PASS	30-150	27752.4	27855.9	99.63	PASS	30-150
Std7-100/1000 ppb	ICAL	1	44756.4	44547	100.47	PASS	30-150	27293.8	27855.9	97.98	PASS	30-150
Std8-200/2000 ppb	ICAL	1	44512.4	44547	99.92	PASS	30-150	27280.5	27855.9	97.93	PASS	30-150
ICV	ICV	1	43935.3	44547	98.63	PASS	30-150	27429.6	27855.9	98.47	PASS	30-150
ICB	ICB	1	43204.6	44547	96.99	PASS	30-150	27054.6	27855.9	97.12	PASS	30-150
LLICV1	LLICV	1	43050.8	44547	96.64	PASS	30-150	27009	27855.9	96.96	PASS	30-150
MLCCV	CCV	1	43283.7	44547	97.16	PASS	30-150	26908.8	27855.9	96.6	PASS	30-150
ICSA1	ICSA	1	43070.9	44547	96.69	PASS	30-150	26631.6	27855.9	95.6	PASS	30-150
ICSAB1	ICSAB	1	43116.6	44547	96.79	PASS	30-150	26862.1	27855.9	96.43	PASS	30-150
CCV1	CCV	1	42860.3	44547	96.21	PASS	30-150	27178.1	27855.9	97.57	PASS	30-150
CCB1	CCB	1	41899	44547	94.06	PASS	30-150	26603.8	27855.9	95.51	PASS	30-150
CCV2	CCV	1	41862.2	44547	93.97	PASS	30-150	26478.1	27855.9	95.05	PASS	30-150
CCB2	CCB	1	41489.1	44547	93.14	PASS	30-150	26324.5	27855.9	94.5	PASS	30-150
ICSA2	ICSA	1	41394.5	44547	92.92	PASS	30-150	26051.9	27855.9	93.52	PASS	30-150
ICSAB2	ICSAB	1	42019.3	44547	94.33	PASS	30-150	26448	27855.9	94.95	PASS	30-150
CCV3	CCV	1	40463.3	44547	90.83	PASS	30-150	25847.1	27855.9	92.79	PASS	30-150
CCB3	CCB	1	39530	44547	88.74	PASS	30-150	25477.6	27855.9	91.46	PASS	30-150
CCV4	CCV	1	40582.5	44547	91.1	PASS	30-150	25709.1	27855.9	92.29	PASS	30-150
CCB4	CCB	1	40158.1	44547	90.15	PASS	30-150	25618.9	27855.9	91.97	PASS	30-150
ICSA3	ICSA	1	40179.3	44547	90.2	PASS	30-150	25375.2	27855.9	91.1	PASS	30-150
ICSAB3	ICSAB	1	40604.7	44547	91.15	PASS	30-150	25420.8	27855.9	91.26	PASS	30-150
CCV5	CCV	1	39864.1	44547	89.49	PASS	30-150	25399.7	27855.9	91.18	PASS	30-150
CCB5	CCB	1	38653.5	44547	86.77	PASS	30-150	24834.4	27855.9	89.15	PASS	30-150
CCV6	CCV	1	37654.5	44547	84.53	PASS	30-150	25206.1	27855.9	90.49	PASS	30-150
CCB6	CCB	1	38028.7	44547	85.37	PASS	30-150	24148.9	27855.9	86.69	PASS	30-150
CCV7	CCV	1	37578.9	44547	84.36	PASS	30-150	24053.3	27855.9	86.35	PASS	30-150
CCB7	CCB	1	37224.7	44547	83.56	PASS	30-150	23996.5	27855.9	86.15	PASS	30-150
ICSA4	ICSA	1	37146.7	44547	83.39	PASS	30-150	24423.8	27855.9	87.68	PASS	30-150
ICSAB4	ICSAB	1	37612.2	44547	84.43	PASS	30-150	23847.4	27855.9	85.61	PASS	30-150
CCV8	CCV	1	37046.5	44547	83.16	PASS	30-150	24018.7	27855.9	86.22	PASS	30-150
CCB8	CCB	1	36046.6	44547	80.92	PASS	30-150	23698.3	27855.9	85.08	PASS	30-150
CCV9	CCV	1	35617.9	44547	79.96	PASS	30-150	23945.3	27855.9	85.96	PASS	30-150
CCB9	CCB	1	34946.4	44547	78.45	PASS	30-150	23226.5	27855.9	83.38	PASS	30-150
ICSA5	ICSA	1	35548.8	44547	79.8	PASS	30-150	23383.4	27855.9	83.94	PASS	30-150
ICSAB5	ICSAB	1	35680.2	44547	80.1	PASS	30-150	23101.9	27855.9	82.93	PASS	30-150

INTERNAL STANDARD: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062312-002C	SAMP	10	33660.5	44547	75.56	PASS	30-150	21611	27855.9	77.58	PASS	30-150
N062312-005C	SAMP	10	33587	44547	75.4	PASS	30-150	22139.4	27855.9	79.48	PASS	30-150
N062312-006C	SAMP	10	33654.9	44547	75.55	PASS	30-150	21537.5	27855.9	77.32	PASS	30-150
N062312-006C	SAMP	50	34112.5	44547	76.58	PASS	30-150	22733.6	27855.9	81.61	PASS	30-150
N062312-006C-PS	PS	10	32979.1	44547	74.03	PASS	30-150	21836.8	27855.9	78.39	PASS	30-150
N062312-006CMS	MS	10	33863.1	44547	76.02	PASS	30-150	22098.3	27855.9	79.33	PASS	30-150
N062312-006CMSD	MSD	10	33721.7	44547	75.7	PASS	30-150	22197.3	27855.9	79.69	PASS	30-150
N062312-010C	SAMP	10	33713.9	44547	75.68	PASS	30-150	22267.4	27855.9	79.94	PASS	30-150
CCV10	CCV	1	35778.2	44547	80.32	PASS	30-150	23647.1	27855.9	84.89	PASS	30-150
CCB10	CCB	1	34601.3	44547	77.67	PASS	30-150	22819.2	27855.9	81.92	PASS	30-150
N062312-011C	SAMP	10	33127.2	44547	74.36	PASS	30-150	22088.2	27855.9	79.29	PASS	30-150
N062312-012C	SAMP	1	33444.5	44547	75.08	PASS	30-150	20890	27855.9	74.99	PASS	30-150
N062312-016C	SAMP	1	34610.2	44547	77.69	PASS	30-150	21347.3	27855.9	76.63	PASS	30-150
N062312-016C	SAMP	10	33964.5	44547	76.24	PASS	30-150	22169.5	27855.9	79.59	PASS	30-150
N062312-017C	SAMP	10	33571.4	44547	75.36	PASS	30-150	21604.3	27855.9	77.56	PASS	30-150
N062312-018C	SAMP	10	33226.3	44547	74.59	PASS	30-150	22150.6	27855.9	79.52	PASS	30-150
N062312-018C	SAMP	100	33442.2	44547	75.07	PASS	30-150	22558.9	27855.9	80.98	PASS	30-150
CCV11	CCV	1	35134.6	44547	78.87	PASS	30-150	22866	27855.9	82.09	PASS	30-150
CCB11	CCB	1	33650.5	44547	75.54	PASS	30-150	22603.4	27855.9	81.14	PASS	30-150
ICSA6	ICSA	1	34135.9	44547	76.63	PASS	30-150	22853.8	27855.9	82.04	PASS	30-150
ICSAB6	ICSAB	1	34811.7	44547	78.15	PASS	30-150	22684.6	27855.9	81.44	PASS	30-150
CCV12	CCV	1	32597.3	44547	73.18	PASS	30-150	21829	27855.9	78.36	PASS	30-150
CCB12	CCB	1	32706.4	44547	73.42	PASS	30-150	21776.7	27855.9	78.18	PASS	30-150
CCV13	CCV	1	32140.9	44547	72.15	PASS	30-150	21459.6	27855.9	77.04	PASS	30-150
CCB13	CCB	1	31379.4	44547	70.44	PASS	30-150	20925.6	27855.9	75.12	PASS	30-150
CCV14	CCV	1	30777.2	44547	69.09	PASS	30-150	20698.6	27855.9	74.31	PASS	30-150
CCB14	CCB	1	30233.9	44547	67.87	PASS	30-150	20209.1	27855.9	72.55	PASS	30-150
ICSA7	ICSA	1	31132.3	44547	69.89	PASS	30-150	20428.4	27855.9	73.34	PASS	30-150
ICSAB7	ICSAB	1	30531.2	44547	68.54	PASS	30-150	20762.1	27855.9	74.53	PASS	30-150
CCV15	CCV	1	30000.3	44547	67.35	PASS	30-150	19779.7	27855.9	71.01	PASS	30-150
CCB15	CCB	1	29041.9	44547	65.19	PASS	30-150	19641.8	27855.9	70.51	PASS	30-150
CCV16	CCV	1	28622.3	44547	64.25	PASS	30-150	19546.2	27855.9	70.17	PASS	30-150
CCB16	CCB	1	28038	44547	62.94	PASS	30-150	18963.2	27855.9	68.08	PASS	30-150
CCV17	CCV	1	28288.4	44547	63.5	PASS	30-150	19311.4	27855.9	69.33	PASS	30-150
CCB17	CCB	1	27798.7	44547	62.4	PASS	30-150	18931	27855.9	67.96	PASS	30-150
ICSA8	ICSA	1	28184.9	44547	63.27	PASS	30-150	19282.5	27855.9	69.22	PASS	30-150
ICSAB8	ICSAB	1	28396.3	44547	63.74	PASS	30-150	19221.3	27855.9	69	PASS	30-150
CCV18	CCV	1	26672.4	44547	59.87	PASS	30-150	18261.3	27855.9	65.56	PASS	30-150
CCB18	CCB	1	25700.9	44547	57.69	PASS	30-150	17866.4	27855.9	64.14	PASS	30-150
N062312-012C	SAMP	1	26275.1	44547	58.98	PASS	30-150	17190.2	27855.9	61.71	PASS	30-150
N062312-016C	SAMP	1	27030.8	44547	60.68	PASS	30-150	17047.8	27855.9	61.2	PASS	30-150

INTERNAL STANDARD: 240112A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062312-012C	SAMP	1	26644.5	44547	59.81	PASS	30-150	17397.1	27855.9	62.45	PASS	30-150
N062312-016C	SAMP	1	27202.1	44547	61.06	PASS	30-150	17751.9	27855.9	63.73	PASS	30-150
CCV19	CCV	1	26115.9	44547	58.63	PASS	30-150	18393.7	27855.9	66.03	PASS	30-150
CCB19	CCB	1	25644.1	44547	57.57	PASS	30-150	17486	27855.9	62.77	PASS	30-150
ICSA9	ICSA	1	25472.7	44547	57.18	PASS	30-150	17912	27855.9	64.3	PASS	30-150
ICSAB9	ICSAB	1	25751	44547	57.81	PASS	30-150	17833.1	27855.9	64.02	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	33804.8	33804.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	35594.2	33804.8	105.29	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	35545.2	33804.8	105.15	PASS	30-150
Std3-5/50 ppb	ICAL	1	35031.9	33804.8	103.63	PASS	30-150
Std4-10/100 ppb	ICAL	1	35195.6	33804.8	104.11	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	34457.3	33804.8	101.93	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	35373.7	33804.8	104.64	PASS	30-150
Std7-100/1000 ppb	ICAL	1	35286.9	33804.8	104.38	PASS	30-150
Std8-200/2000 ppb	ICAL	1	34834.8	33804.8	103.05	PASS	30-150
ICV	ICV	1	34536.4	33804.8	102.16	PASS	30-150
ICB	ICB	1	32859.6	33804.8	97.2	PASS	30-150
LLICV1	CCV1	1	34008.6	33804.8	100.6	PASS	30-150
MLCCV	CCV	1	33782.6	33804.8	99.93	PASS	30-150
ICSA1	ICSA	1	33607.8	33804.8	99.42	PASS	30-150
ICSAB1	ICSAB	1	34037.6	33804.8	100.69	PASS	30-150
CCV1	CCV	1	34036.5	33804.8	100.69	PASS	30-150
CCB1	CCB	1	33193.7	33804.8	98.19	PASS	30-150
CCV2	CCV	1	33311.6	33804.8	98.54	PASS	30-150
CCB2	CCB	1	32135.9	33804.8	95.06	PASS	30-150
CCV3	CCV	1	33721.4	33804.8	99.75	PASS	30-150
CCB3	CCB	1	32138.2	33804.8	95.07	PASS	30-150
ICSA2	ICSA	1	32732.7	33804.8	96.83	PASS	30-150
ICSAB2	ICSAB	1	33287.1	33804.8	98.47	PASS	30-150
CCV4	CCV	1	33144.6	33804.8	98.05	PASS	30-150
CCB4	CCB	1	31925.6	33804.8	94.44	PASS	30-150
CCV5	CCV	1	32445.4	33804.8	95.98	PASS	30-150
CCB5	CCB	1	31403.4	33804.8	92.9	PASS	30-150
CCV6	CCV	1	32052.4	33804.8	94.82	PASS	30-150
CCB6	CCB	1	31027.1	33804.8	91.78	PASS	30-150
ICSA3	ICSA	1	31254.2	33804.8	92.45	PASS	30-150
ICSAB3	ICSAB	1	31938.9	33804.8	94.48	PASS	30-150
N062312-012C	SAMP	1	26715.1	33804.8	79.03	PASS	30-150
CCV7	CCV	1	31715.2	33804.8	93.82	PASS	30-150
CCB7	CCB	1	30511.7	33804.8	90.26	PASS	30-150
N062312-012C	SAMP	1	26532.6	33804.8	78.49	PASS	30-150
N062312-016C	SAMP	1	26728.5	33804.8	79.07	PASS	30-150
N062312-016C	SAMP	1	26485.9	33804.8	78.35	PASS	30-150
CCV8	CCV	1	30774.4	33804.8	91.04	PASS	30-150
CCB8	CCB	1	29298.4	33804.8	86.67	PASS	30-150
CCV9	CCV	1	30682.1	33804.8	90.76	PASS	30-150
CCB9	CCB	1	30072.1	33804.8	88.96	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSA4	ICSA	1	30836.8	33804.8	91.22	PASS	30-150
ICSAB4	ICSAB	1	31272.1	33804.8	92.51	PASS	30-150
CCV10	CCV	1	30830.1	33804.8	91.2	PASS	30-150
CCB10	CCB	1	29420.9	33804.8	87.03	PASS	30-150
CCV11	CCV	1	29231.6	33804.8	86.47	PASS	30-150
CCB11	CCB	1	28156.4	33804.8	83.29	PASS	30-150
ICSA5	ICSA	1	28845.4	33804.8	85.33	PASS	30-150
ICSAB5	ICSAB	1	29545.6	33804.8	87.4	PASS	30-150

INTERNAL STANDARD: 240117A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	27222.6	27222.6	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	28708.5	27222.6	105.46	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	28881	27222.6	106.09	PASS	30-150
Std3-5/50 ppb	ICAL	1	29240.5	27222.6	107.41	PASS	30-150
Std4-10/100 ppb	ICAL	1	29302.8	27222.6	107.64	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	28030.7	27222.6	102.97	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	28539.3	27222.6	104.84	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28277.7	27222.6	103.88	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28085.2	27222.6	103.17	PASS	30-150
ICV	ICV	1	29334	27222.6	107.76	PASS	30-150
ICB	ICB	1	27258.2	27222.6	100.13	PASS	30-150
LLICV1	LLICV	1	28505.9	27222.6	104.71	PASS	30-150
MLCCV	CCV	1	27951.6	27222.6	102.68	PASS	30-150
ICSA1	ICSA	1	27446.3	27222.6	100.82	PASS	30-150
ICSAB1	ICSAB	1	28649.5	27222.6	105.24	PASS	30-150
N062312-007C	SAMP	1	24299.2	27222.6	89.26	PASS	30-150
N062312-012C	SAMP	1	24933.5	27222.6	91.59	PASS	30-150
N062312-018C	SAMP	1	24197.9	27222.6	88.89	PASS	30-150
N062312-007C	SAMP	1	23422.3	27222.6	86.04	PASS	30-150
N062312-012C	SAMP	1	24749.8	27222.6	90.92	PASS	30-150
N062312-007C	SAMP	1	23760.6	27222.6	87.28	PASS	30-150
CCV1	CCV	1	27323.9	27222.6	100.37	PASS	30-150
CCB1	CCB	1	26950	27222.6	99	PASS	30-150
CCV2	CCV	1	29645.7	27222.6	108.9	PASS	30-150
CCB2	CCB	1	28970.1	27222.6	106.42	PASS	30-150
CCV3	CCV	1	29527.7	27222.6	108.47	PASS	30-150
CCB3	CCB	1	28259.9	27222.6	103.81	PASS	30-150
ICSA2	ICSA	1	28928.9	27222.6	106.27	PASS	30-150
ICSAB2	ICSAB	1	28819.8	27222.6	105.87	PASS	30-150
CCV4	CCV	1	29829.4	27222.6	109.58	PASS	30-150
CCB4	CCB	1	28906.6	27222.6	106.19	PASS	30-150
CCV5	CCV	1	29450.9	27222.6	108.19	PASS	30-150
CCB5	CCB	1	28615	27222.6	105.11	PASS	30-150
ICSA3	ICSA	1	29408.6	27222.6	108.03	PASS	30-150
ICSAB3	ICSAB	1	29548.8	27222.6	108.55	PASS	30-150
CCV6	CCV	1	27597.7	27222.6	101.38	PASS	30-150
CCB6	CCB	1	27311.6	27222.6	100.33	PASS	30-150
CCV7	CCV	1	27537.6	27222.6	101.16	PASS	30-150
CCB7	CCB	1	26372.4	27222.6	96.88	PASS	30-150
CCV8	CCV	1	26592.7	27222.6	97.69	PASS	30-150
CCB8	CCB	1	26274.4	27222.6	96.52	PASS	30-150

INTERNAL STANDARD: 240117A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSA4	ICSA	1	26670.6	27222.6	97.97	PASS	30-150
ICSAB4	ICSAB	1	26737.4	27222.6	98.22	PASS	30-150
CCV9	CCV	1	26460.3	27222.6	97.2	PASS	30-150
CCB9	CCB	1	26101.9	27222.6	95.88	PASS	30-150
CCV10	CCV	1	25625.6	27222.6	94.13	PASS	30-150
CCB10	CCB	1	25645.6	27222.6	94.21	PASS	30-150
ICSA5	ICSA	1	25764.7	27222.6	94.64	PASS	30-150
ICSAB5	ICSAB	1	26342.3	27222.6	96.77	PASS	30-150
CCV11	CCV	1	26127.5	27222.6	95.98	PASS	30-150
CCB11	CCB	1	25406.4	27222.6	93.33	PASS	30-150
CCV12	CCV	1	25666.8	27222.6	94.28	PASS	30-150
CCB12	CCB	1	25751.3	27222.6	94.6	PASS	30-150
ICSA6	ICSA	1	25545.5	27222.6	93.84	PASS	30-150
ICSAB6	ICSAB	1	25774.7	27222.6	94.68	PASS	30-150
CCV13	CCV	1	25788.1	27222.6	94.73	PASS	30-150
CCB13	CCB	1	24775.5	27222.6	91.01	PASS	30-150
ICSA7	ICSA	1	24872.2	27222.6	91.37	PASS	30-150
ICSAB7	ICSAB	1	25124.8	27222.6	92.29	PASS	30-150

INTERNAL STANDARD: 240126A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	24789.9	24789.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	25172.7	24789.9	101.54	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	24774.3	24789.9	99.94	PASS	30-150
Std3-5/50 ppb	ICAL	1	24728.8	24789.9	99.75	PASS	30-150
Std4-10/100 ppb	ICAL	1	24925.7	24789.9	100.55	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	24427.2	24789.9	98.54	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	24657.5	24789.9	99.47	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24923.5	24789.9	100.54	PASS	30-150
Std8-200/2000 ppb	ICAL	1	25095.9	24789.9	101.23	PASS	30-150
ICV	ICV	1	24003.2	24789.9	96.83	PASS	30-150
ICB	ICB	1	23958.7	24789.9	96.65	PASS	30-150
LLICV1	LLICV	1	24077.7	24789.9	97.13	PASS	30-150
LLICV1	LLICV	1	23761.7	24789.9	95.85	PASS	30-150
MLCCV	CCV	1	24262.4	24789.9	97.87	PASS	30-150
ICSA1	ICSA	1	23696.1	24789.9	95.59	PASS	30-150
ICSAB1	ICSAB	1	23544.7	24789.9	94.98	PASS	30-150
N062312-018C	SAMP	1	37137.6	24789.9	149.81	PASS	30-150
N062312-018C	SAMP	1	37370.4	24789.9	150.75	NR!	30-150
N062312-018C	SAMP	1	36775.7	24789.9	148.35	PASS	30-150
N062312-018C	SAMP	1	21602.1	24789.9	87.14	PASS	30-150
N062312-018C	SAMP	1	21397.4	24789.9	86.31	PASS	30-150
N062312-018C	SAMP	1	21319.5	24789.9	86	PASS	30-150
N062312-018C	SAMP	1	21460.8	24789.9	86.57	PASS	30-150
N062312-018C	SAMP	1	21351.7	24789.9	86.13	PASS	30-150
N062312-018C	SAMP	1	20947.9	24789.9	84.5	PASS	30-150
CCV1	CCV	1	23004	24789.9	92.8	PASS	30-150
CCB1	CCB	1	22794.8	24789.9	91.95	PASS	30-150
CCV2	CCV	1	22206.2	24789.9	89.58	PASS	30-150
CCB2	CCB	1	22005.9	24789.9	88.77	PASS	30-150
CCV3	CCV	1	22893.8	24789.9	92.35	PASS	30-150
CCB3	CCB	1	22240.7	24789.9	89.72	PASS	30-150
ICSA2	ICSA	1	22392	24789.9	90.33	PASS	30-150
ICSAB2	ICSAB	1	22757	24789.9	91.8	PASS	30-150
CCV4	CCV	1	21572	24789.9	87.02	PASS	30-150
CCB4	CCB	1	21821.2	24789.9	88.03	PASS	30-150
CCV5	CCV	1	22530	24789.9	90.88	PASS	30-150
CCB5	CCB	1	21915.8	24789.9	88.41	PASS	30-150
ICSA3	ICSA	1	21890.2	24789.9	88.3	PASS	30-150
ICSAB3	ICSAB	1	21775.6	24789.9	87.84	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N062312
 Test Method: EPA 200.8
 Analysis Date: 1/11, 12/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 105986

Instrument ID: ICPMS-03
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test for Ba & Mn failed. However, PS passed criteria.
 Dilution test is not applicable to As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062312-006C DT 5x	Arsenic	As	µg/L	0	NA	0		10
N062312-006C DT 5x	Barium	Ba	µg/L	90.39911	FAIL	50.22841	79.98%	10
N062312-006C DT 50x	Manganese	Mn	µg/L	252.321	FAIL	456.2557	44.70%	10

Reviewed by:

 2/14/2024

Note: NA - Not Applicable

02/08/24 17:26

DT_EPA 200.8_N062312_105986

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062312
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062312-006C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180301						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5619492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.978	0.10	10.00	0	89.8	80	120				
Barium	60.004	1.0	10.00	50.23	97.8	80	120				

Sample ID: N062312-006C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180400						
Client ID: ZZZZZZ	Batch ID: 105986	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/12/2024	SeqNo: 5626138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1327.054	5.0	1000	456.3	87.1	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CORRECTIVE ACTION DOCUMENTATION



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Corrective Action Report (CAR)

Date Initiated: 29-Jan-24

Corrective Action Report ID: 7357

Initiated By: Diane Jetajobe

Department: ME-3(ICPMS)

Corrective Action Description

CAR Summary: Sample N062312-012C was reanalyzed several times with failed RSD.

Description of Nonconformance: N062312-012C was reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. RSD of all runs failed acceptance criteria.

Description of Corrective Action: Arsenic was reported at 0.2058ug/L with lowest RSD value of 16.9%. The results are comparable on all runs.

Performed By:

Completion Date:

Client Notification

Client Notification Required: ~~No~~

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA: None

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

Nancy 01/28/2024

QA Date:

Last Updated BY nancys

Updated: 29-Jan-2024 11:07 AM

Reported: 29-Jan-2024 11:07 A



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ELAP Cert 2676 | NV Cert NV00922
ORELAP Cert 4046 (EPA TO15 & TO3)

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Corrective Action Report (CAR)

Date Initiated: 29-Jan-24

Corrective Action Report ID: 7358

Initiated By: Diane Jetajobe

Department: ME-3(ICPMS)

Corrective Action Description

CAR Summary: Sample N062312-018C was reanalyzed several times with failed RSD.

Description of Nonconformance: N062312-018C was reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. RSD of all runs failed acceptance criteria.

Description of Corrective Action: Arsenic was reported at 0.303ug/L with lowest RSD value of 25.3%. The results are comparable on all runs.

Performed By:

Completion Date:

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA: None

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

Nancy 01/28/2024

QA Date:

Last Updated BY nancys

Updated: 29-Jan-2024 11:13 AM

Reported: 29-Jan-2024 11:13 A



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ORELAP Cert 4046 (EPA TO15 & TO3)

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MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

CALIFORNIA

11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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 ELAP Cert 2921 | EPA ID CA01638

NEVADA

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 P:702.307.2659 F:702.307.2691
 ELAP Cert 2676 | NV Cert NV00922 | ORELAP/NELAP Cert 4046



LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 499829
Report Level: II
Report Date: 01/31/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N62313A

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499829
 Location: N62313A
 Date Received: 01/12/24

Sample ID	Lab ID	Collected	Matrix
N062313-001A/MW-44-115-0124	499829-001	01/10/24 10:10	Water
N062313-002A/MW-44-125-0124	499829-002	01/10/24 10:32	Water
N062313-003A/MW-45-095A-0124	499829-003	01/10/24 09:34	Water
N062313-004A/MW-34-080-0124	499829-004	01/10/24 09:04	Water
N062313-005A/MW-36-090-0124	499829-005	01/10/24 11:40	Water
N062313-006A/MW-36-100-0124	499829-006	01/10/24 12:03	Water
N062313-007A/MW-81-043-0124	499829-007	01/10/24 12:48	Water
N062313-008A/MW-81-098-0124	499829-008	01/10/24 13:16	Water
N062313-009A/MW-78-070-0124	499829-009	01/10/24 08:54	Water
N062313-010A/MW-903-Q124	499829-010	01/10/24 09:04	Water
N062313-011A/MW-78-142-0124	499829-011	01/10/24 09:32	Water
N062313-012A/MW-79-058-0124	499829-012	01/10/24 11:24	Water
N062313-013A/MW-79-102-0124	499829-013	01/10/24 10:47	Water
N062313-014A/MW-80-057-0124	499829-014	01/10/24 14:10	Water
N062313-015A/MW-80-082-0124	499829-015	01/10/24 13:40	Water
N062313-016A/MW-51-0124	499829-016	01/10/24 12:48	Water
N062313-017A/MW-26-0124	499829-017	01/10/24 12:07	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job 499829
Number:
Location: N62313A
Date Received: 01/12/24

This data package contains sample and QC results for seventeen water samples, requested for the above referenced project on 01/12/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

- Level II is also requested.
- No analytical problems were encountered.

499829

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.ah-labs.com
 TEL: 7023072659 FAX: 7023072691

QC Level: Level IV

Field Sampler: Riggie Tep

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

11-Jan-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N062313-001A / MW-44-115-0124	Groundwater	1/10/2024 10:10:00 AM	8OZA	1	
N062313-002A / MW-44-125-0124	Groundwater	1/10/2024 10:32:00 AM	8OZA	1	
N062313-003A / MW-45-095a-0124	Groundwater	1/10/2024 9:34:00 AM	8OZA	1	
N062313-004A / MW-34-080-0124	Groundwater	1/10/2024 9:04:00 AM	8OZA	1	
N062313-005A / MW-36-090-0124	Groundwater	1/10/2024 11:40:00 PM	8OZA	1	MS/MSD
N062313-006A / MW-100-0124	Groundwater	1/10/2024 12:03:00 PM	8OZA	1	
N062313-007A / MW-81-043-0124	Groundwater	1/10/2024 12:48:00 PM	8OZA	1	
N062313-008A / MW-81-098-0124	Groundwater	1/10/2024 1:16:00 PM	8OZA	1	
N062313-009A / MW-78-070-0124	Groundwater	1/10/2024 8:54:00 AM	8OZA	1	
N062313-010A / MW-903-Q124	Groundwater	1/10/2024 9:04:00 AM	8OZA	1	
N062313-011A / MW-78-142-0124	Groundwater	1/10/2024 9:32:00 AM	8OZA	1	
N062313-012A / MW-79-058-0124	Groundwater	1/10/2024 11:24:00 AM	8OZA	1	
N062313-013A / MW-79-102-0124	Groundwater	1/10/2024 10:47:00 AM	8OZA	1	
N062313-014A / MW-80-057-0124	Groundwater	1/10/2024 2:10:00 PM	8OZA	1	
N062313-015A / MW-80-082-0124	Groundwater	1/10/2024 1:40:00 PM	8OZA	1	
N062313-016A / MW-51-0124	Groundwater	1/10/2024 12:48:00 PM	8OZA	1	
N062313-017A / MW-26-0124	Groundwater	1/10/2024 12:07:00 PM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO# N62313A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT

Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

4.4

Relinquished by: <i>E Tanegof</i>	Date/Time: 1/11/2024 1630
Relinquished by: _____	Date/Time: _____
Received by: <i>Cap</i>	Date/Time: 1/12/24 1015
Received by: _____	Date/Time: _____



SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Asset Laboratories Project: N62313A
 Date Received: 1/12/24 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.4 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 4.4 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: Date: 1/12/24



800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 560770916

PDS

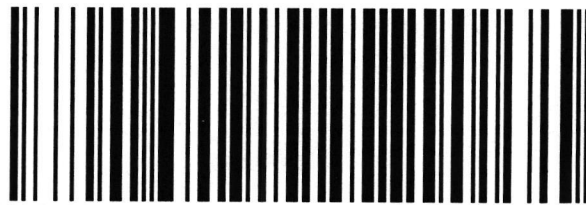


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



Delivery Instructions:

1805769

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 1/11/2024 10:37 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 499829

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 499829
 Location: N62313A
 Date Received: 01/12/24

Sample ID: N062313-001A/MW-44-115-0124 **Lab ID:** 499829-001 **Collected:** 01/10/24 10:10
Matrix: Water

499829-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.9		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-002A/MW-44-125-0124 **Lab ID:** 499829-002 **Collected:** 01/10/24 10:32
Matrix: Water

499829-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.2		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-003A/MW-45-095A-0124 **Lab ID:** 499829-003 **Collected:** 01/10/24 09:34
Matrix: Water

499829-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-004A/MW-34-080-0124 **Lab ID:** 499829-004 **Collected:** 01/10/24 09:04
Matrix: Water

499829-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.3		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-005A/MW-36-090-0124 **Lab ID:** 499829-005 **Collected:** 01/10/24 11:40
Matrix: Water

499829-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.5		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-006A/MW-36-100-0124 **Lab ID:** 499829-006 **Collected:** 01/10/24 12:03
Matrix: Water

499829-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	4.1		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Analysis Results for 499829

Sample ID: N062313-007A/MW-81-043-0124	Lab ID: 499829-007 Matrix: Water	Collected: 01/10/24 12:48
--	---	----------------------------------

499829-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.2		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-008A/MW-81-098-0124	Lab ID: 499829-008 Matrix: Water	Collected: 01/10/24 13:16
--	---	----------------------------------

499829-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.1		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-009A/MW-78-070-0124	Lab ID: 499829-009 Matrix: Water	Collected: 01/10/24 08:54
--	---	----------------------------------

499829-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-010A/MW-903-Q124	Lab ID: 499829-010 Matrix: Water	Collected: 01/10/24 09:04
---	---	----------------------------------

499829-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.5		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-011A/MW-78-142-0124	Lab ID: 499829-011 Matrix: Water	Collected: 01/10/24 09:32
--	---	----------------------------------

499829-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	11		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-012A/MW-79-058-0124	Lab ID: 499829-012 Matrix: Water	Collected: 01/10/24 11:24
--	---	----------------------------------

499829-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.5		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-013A/MW-79-102-0124	Lab ID: 499829-013 Matrix: Water	Collected: 01/10/24 10:47
--	---	----------------------------------

499829-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Analysis Results for 499829

Sample ID: N062313-014A/MW-80-057-0124	Lab ID: 499829-014 Matrix: Water	Collected: 01/10/24 14:10
--	---	----------------------------------

499829-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.8		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-015A/MW-80-082-0124	Lab ID: 499829-015 Matrix: Water	Collected: 01/10/24 13:40
--	---	----------------------------------

499829-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-016A/MW-51-0124	Lab ID: 499829-016 Matrix: Water	Collected: 01/10/24 12:48
--	---	----------------------------------

499829-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.8		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Sample ID: N062313-017A/MW-26-0124	Lab ID: 499829-017 Matrix: Water	Collected: 01/10/24 12:07
--	---	----------------------------------

499829-017 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330431	01/12/24	01/13/24	EPL

Batch QC

Type: Blank	Lab ID: QC1119923	Batch: 330431
Matrix: Water	Method: SM 5310B	

QC1119923 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	01/12/24	01/13/24

Type: Lab Control Sample	Lab ID: QC1119924	Batch: 330431
Matrix: Water	Method: SM 5310B	

QC1119924 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	23.33	25.00	mg/L	93%		80-120

Type: Lab Control Sample	Lab ID: QC1119925	Batch: 330431
Matrix: Water	Method: SM 5310B	

QC1119925 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	23.23	25.00	mg/L	93%		80-120

Type: Lab Control Sample	Lab ID: QC1119926	Batch: 330431
Matrix: Water	Method: SM 5310B	

QC1119926 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	23.54	25.00	mg/L	94%		80-120

Type: Lab Control Sample	Lab ID: QC1119927	Batch: 330431
Matrix: Water	Method: SM 5310B	

QC1119927 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.22	25.00	mg/L	97%		80-120

Type: Matrix Spike	Lab ID: QC1119928	Batch: 330431
Matrix (Source ID): Water (499829-006)	Method: SM 5310B	

QC1119928 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	29.40	4.056	25.00	mg/L	101%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1119929	Batch: 330431
Matrix (Source ID): Water (499829-006)	Method: SM 5310B	

QC1119929 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.90	4.056	25.00	mg/L	99%		80-120	2	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock

Project No.: 30121866

ASSET Laboratories Work Order:

N062346

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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ASSET Laboratories Work Order: N062346

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January 26, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062346

RE: PG&E Topock , 30121866

Attention: Dan Bush

Enclosed are the results for sample(s) received on January 11, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock , 30121866
Lab Order: N062346

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of sample upon the addition of eluent

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery and RPD criteria for Sodium in QC samples N062346-001B-MS2 and N062346-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike (MS) is outside recovery criteria for Calcium in QC sample N062348-001C-MS1 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock , 30121866
Lab Order: N062346
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062346-001A	FW-02B-127-0124	Groundwater	1/11/2024 3:31:00 PM	1/11/2024	1/26/2024
N062346-001B	FW-02B-127-0124	Groundwater	1/11/2024 3:31:00 PM	1/11/2024	1/26/2024
N062346-001C	FW-02B-127-0124	Groundwater	1/11/2024 3:31:00 PM	1/11/2024	1/26/2024
N062346-002A	MW-88-107-0124	Groundwater	1/11/2024 8:39:00 AM	1/11/2024	1/26/2024
N062346-002B	MW-88-107-0124	Groundwater	1/11/2024 8:39:00 AM	1/11/2024	1/26/2024
N062346-002C	MW-88-107-0124	Groundwater	1/11/2024 8:39:00 AM	1/11/2024	1/26/2024
N062346-003A	EB-708-Q124	Groundwater	1/11/2024 3:45:00 PM	1/11/2024	1/26/2024



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-001

Client Sample ID: FW-02B-127-0124
Collection Date: 1/11/2024 3:31:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL FILTERABLE RESIDUE

SM2540C

RunID: NV00922-WC_240112A	QC Batch: 106022			PrepDate: 1/12/2024		Analyst: LR
Total Dissolved Solids (Residue, Filterable)	1100	13	13	mg/L	1	1/12/2024 11:22 AM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL FILTERABLE RESIDUE

SM2540C

RunID: NV00922-WC_240112A	QC Batch: 106022				PrepDate: 1/12/2024		Analyst: LR
Total Dissolved Solids (Residue, Filterable)	440	10	10		mg/L	1	1/12/2024 11:22 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_WPGE

Sample ID: LCS-106022	SampType: LCS	TestCode: 160.1_2540C	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180470						
Client ID: LCSW	Batch ID: 106022	TestNo: SM2540C		Analysis Date: 1/12/2024	SeqNo: 5630310						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	973.000	10	1000	0	97.3	80	120				

Sample ID: MB-106022	SampType: MBLK	TestCode: 160.1_2540C	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180470						
Client ID: PBW	Batch ID: 106022	TestNo: SM2540C		Analysis Date: 1/12/2024	SeqNo: 5630311						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID: N062350-001CDUP	SampType: DUP	TestCode: 160.1_2540C	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180470						
Client ID: ZZZZZ	Batch ID: 106022	TestNo: SM2540C		Analysis Date: 1/12/2024	SeqNo: 5630320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	3063.333	33						2997	2.20	5	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-001

Client Sample ID: FW-02B-127-0124
Collection Date: 1/11/2024 3:31:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240117A	QC Batch: R180536				PrepDate:		Analyst: RAB
Hexavalent Chromium	17	0.19	1.0		µg/L	5	1/17/2024 10:33 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240114E	QC Batch: 106016				PrepDate: 1/12/2024		Analyst: DJ
Chromium	18	0.035	1.0		µg/L	1	1/14/2024 10:25 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240117A	QC Batch: R180536						Analyst: RAB
Hexavalent Chromium	27	0.19	1.0		µg/L	5	1/17/2024 10:55 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240114E	QC Batch: 106016					1/12/2024	Analyst: DJ
Chromium	26	0.035	1.0		µg/L	1	1/14/2024 10:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-003

Client Sample ID: EB-708-Q124
Collection Date: 1/11/2024 3:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240117A	QC Batch: R180536			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/17/2024 11:14 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R180536	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536
Client ID: PBW	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633885
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID: LCS-R180536	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536
Client ID: LCSW	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633886
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.940	0.20	5.000	0	98.8 90 110

Sample ID: N062346-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633888
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	41.838	1.0	25.00	17.08	99.0 90 110

Sample ID: N062346-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633890
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	51.559	1.0	25.00	26.83	98.9 90 110

Sample ID: N062346-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633892
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.046	0.20	1.000	0	105 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062346-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZZ	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633893							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	41.707	1.0	25.00	17.08	98.5	90	110	41.84	0.314	20	

Sample ID: N062346-002ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZZ	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633894							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	26.729	1.0						26.83	0.377	20	

Sample ID: N062429-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZZ	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633920							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.021	0.20	1.000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-106016	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: PBW	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627415						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-106016	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: LCSW	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.420	1.0	10.00	0	94.2	85	115				
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Sample ID: N062346-002B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: ZZZZZ	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	35.218	1.0	10.00	25.62	96.0	75	125				
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Sample ID: N062346-002B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: ZZZZZ	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	35.256	1.0	10.00	25.62	96.4	75	125	35.22	0.108	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-001

Client Sample ID: FW-02B-127-0124
Collection Date: 1/11/2024 3:31:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ALKALINITY, SPECIATED

SM 2320 B

RunID: NV00922-WC_240115C	QC Batch: R180509				PrepDate:		Analyst: LR
Alkalinity, Total (As CaCO3)	98	1.2	5.0		mg/L	1	1/15/2024 11:00 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ALKALINITY, SPECIATED

SM 2320 B

RunID: NV00922-WC_240115C	QC Batch: R180509				PrepDate:		Analyst: LR
Alkalinity, Total (As CaCO3)	160	1.2	5.0		mg/L	1	1/15/2024 11:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: LCS-R180509	SampType: LCS	TestCode: 2320_W_SP	Units: mg/L	Prep Date:	RunNo: 180509						
Client ID: LCSW	Batch ID: R180509	TestNo: SM 2320 B		Analysis Date: 1/15/2024	SeqNo: 5631711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	94.758	5.0	100.0	0	94.8	85	115				

Sample ID: MB-R180509	SampType: MBLK	TestCode: 2320_W_SP	Units: mg/L	Prep Date:	RunNo: 180509						
Client ID: PBW	Batch ID: R180509	TestNo: SM 2320 B		Analysis Date: 1/15/2024	SeqNo: 5631712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: N062346-001CDUP	SampType: DUP	TestCode: 2320_W_SP	Units: mg/L	Prep Date:	RunNo: 180509						
Client ID: ZZZZZ	Batch ID: R180509	TestNo: SM 2320 B		Analysis Date: 1/15/2024	SeqNo: 5631714						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	96.774	5.0						97.78	1.04	30	

Sample ID: N062346-001CMS	SampType: MS	TestCode: 2320_W_SP	Units: mg/L	Prep Date:	RunNo: 180509						
Client ID: ZZZZZ	Batch ID: R180509	TestNo: SM 2320 B		Analysis Date: 1/15/2024	SeqNo: 5631715						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	183.468	5.0	100.0	97.78	85.7	75	125				

Sample ID: N062346-001CMSD	SampType: MSD	TestCode: 2320_W_SP	Units: mg/L	Prep Date:	RunNo: 180509						
Client ID: ZZZZZ	Batch ID: R180509	TestNo: SM 2320 B		Analysis Date: 1/15/2024	SeqNo: 5631716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	183.468	5.0	100.0	97.78	85.7	75	125	183.5	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-001

Client Sample ID: FW-02B-127-0124
Collection Date: 1/11/2024 3:31:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Bromide	ND	0.18	2.5		mg/L	5	1/12/2024 10:57 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240117A	QC Batch: R180520				PrepDate:		Analyst: RAB
Chloride	420	29	50		mg/L	100	1/17/2024 04:37 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Fluoride	0.60	0.16	0.50		mg/L	5	1/12/2024 10:57 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240117A	QC Batch: R180520				PrepDate:		Analyst: RAB
Sulfate	180	6.9	10		mg/L	20	1/17/2024 05:41 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Nitrate as N	11	0.12	0.25		mg/L	5	1/12/2024 10:57 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Bromide	ND	0.18	2.5		mg/L	5	1/12/2024 11:13 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Chloride	57	2.9	5.0		mg/L	10	1/12/2024 08:25 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Fluoride	1.1	0.16	0.50		mg/L	5	1/12/2024 11:13 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Sulfate	74	3.4	5.0		mg/L	10	1/12/2024 08:25 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_240112A	QC Batch: R180371				PrepDate:		Analyst: RAB
Nitrate as N	13	0.24	0.50		mg/L	10	1/12/2024 08:25 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID: MB-R180371_BR	SampType: MBLK	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: PBW	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.50									

Sample ID: LCS-R180371_BR	SampType: LCS	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: LCSW	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.330	0.50	1.250	0	106	90	110				

Sample ID: N062346-001CDUP	SampType: DUP	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.812	2.5						0.8575	0	20	

Sample ID: N062346-001CMS	SampType: MS	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	7.326	2.5	6.250	0.8575	103	80	120				

Sample ID: N062346-001CMSD	SampType: MSD	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	7.246	2.5	6.250	0.8575	102	80	120	7.326	1.09	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: MB-R180371_CL	SampType: MBLK	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: PBW	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: LCS-HR180371_CL	SampType: LCS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: LCSW	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.008	0.50	2.000	0	100	90	110				

Sample ID: N062346-002CDUP	SampType: DUP	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622015						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	56.393	5.0						56.78	0.691	20	

Sample ID: N062346-002CMS	SampType: MS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	77.753	5.0	20.00	56.78	105	80	120				

Sample ID: N062346-002CMSD	SampType: MSD	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	78.123	5.0	20.00	56.78	107	80	120	77.75	0.475	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: MB-R180520_CL	SampType: MBLK	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: PBW	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: LCS-R180520_CL	SampType: LCS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: LCSW	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 2.045 0.50 2.000 0 102 90 110

Sample ID: N062346-001CDUP	SampType: DUP	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 500.620 50 418.6 17.8 20

Sample ID: N062346-001CMS	SampType: MS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 625.630 50 200.0 418.6 104 80 120

Sample ID: N062346-001CMSD	SampType: MSD	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 622.250 50 200.0 418.6 102 80 120 625.6 0.542 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID: MB-R180371_F	SampType: MBLK	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: PBW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621985							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Sample ID: LCS-R180371_F	SampType: LCS	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: LCSW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 1.323 0.10 1.250 0 106 90 110

Sample ID: N062346-001CDUP	SampType: DUP	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621995							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 0.608 0.50 0.6010 1.08 20

Sample ID: N062346-001CMS	SampType: MS	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621996							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 6.934 0.50 6.250 0.6010 101 80 120

Sample ID: N062346-001CMSD	SampType: MSD	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 6.993 0.50 6.250 0.6010 102 80 120 6.934 0.847 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R180371_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: PBW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622122							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Sample ID: LCS-R180371_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: LCSW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622123							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.098	0.50	4.000	0	102	90	110				
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Sample ID: N062346-002CDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622131							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	74.173	5.0						74.45	0.373	20	
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Sample ID: N062346-002CMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622132							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	115.248	5.0	40.00	74.45	102	80	120				
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Sample ID: N062346-002CMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622133							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	115.219	5.0	40.00	74.45	102	80	120	115.2	0.0252	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R180520_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: PBW	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Sample ID: LCS-R180520_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: LCSW	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632937							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.100	0.50	4.000	0	103	90	110				
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Sample ID: N062346-001CDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	182.560	10						181.8	0.396	20	
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Sample ID: N062346-001CMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632944							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	267.224	10	80.00	181.8	107	80	120				
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Sample ID: N062346-001CMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ZZZZZ	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632945							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	269.734	10	80.00	181.8	110	80	120	267.2	0.935	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R180371_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: PBW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624358							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050									
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Sample ID: LCS-R180371_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: LCSW	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624359							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	1.282	0.050	1.250	0	103	90	110				
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Sample ID: N062350-004BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624362							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	4.464	0.25						4.526	1.39	20	
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Sample ID: N062350-006BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624370							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	37.106	1.0	25.00	11.07	104	80	120				
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Sample ID: N062350-006BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624371							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	37.116	1.0	25.00	11.07	104	80	120	37.11	0.0269	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: N062350-008BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624372							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	37.518	1.0	25.00	11.30	105	80	120				

Sample ID: N062350-018BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624384							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	14.665	0.50	12.50	1.846	103	80	120				

Sample ID: N062350-018BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624387							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	14.673	0.50	12.50	1.846	103	80	120	14.66	0.0545	20	

Sample ID: N062346-002CDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ZZZZZZ	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624389							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.578	0.50						12.65	0.579	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	FW-02B-127-0124
Lab Order:	N062346		
Project:	PG&E Topock , 30121866	Collection Date:	1/11/2024 3:31:00 PM
Lab ID:	N062346-001	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HARDNESS BY CALCULATION

SM 2340 B

RunID: NV00922-ICP3_240113B	QC Batch: R180364			PrepDate:		Analyst: DJ
Hardness, Calcium (As CaCO3)	360	0.50	0.50	mg/L	1	1/13/2024
Hardness, Magnesium (As CaCO3)	150	0.50	0.50	mg/L	1	1/13/2024
Total Hardness (As CaCO3)	510	1.0	1.0	mg/L	1	1/13/2024

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/13/2024 01:41 PM

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113B	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ
Boron	0.29	0.035	0.10	mg/L	1	1/13/2024 01:41 PM
Calcium	140	0.18	0.50	mg/L	1	1/13/2024 01:41 PM
Magnesium	36	0.017	0.10	mg/L	1	1/13/2024 01:41 PM
Potassium	14	0.69	2.5	mg/L	5	1/15/2024 01:19 PM
Sodium	190	8.5	12	mg/L	25	1/15/2024 01:25 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



ASSET LABORATORIES
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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HARDNESS BY CALCULATION

SM 2340 B

RunID: NV00922-ICP3_240113B	QC Batch: R180364						Analyst: DJ
Hardness, Calcium (As CaCO3)	53	0.50	0.50		mg/L	1	1/13/2024
Hardness, Magnesium (As CaCO3)	12	0.50	0.50		mg/L	1	1/13/2024
Total Hardness (As CaCO3)	65	1.0	1.0		mg/L	1	1/13/2024

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013					1/12/2024	Analyst: DJ
Iron	ND	13	20		µg/L	1	1/13/2024 01:47 PM

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113B	QC Batch: 106013					1/12/2024	Analyst: DJ
Boron	0.24	0.035	0.10		mg/L	1	1/13/2024 01:47 PM
Calcium	21	0.18	0.50		mg/L	1	1/13/2024 01:47 PM
Magnesium	3.0	0.017	0.10		mg/L	1	1/13/2024 01:47 PM
Potassium	5.0	0.69	2.5		mg/L	5	1/15/2024 01:22 PM
Sodium	150	1.7	2.5		mg/L	5	1/15/2024 01:22 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: MB-106013	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: PBW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621561
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: LCS1-106013	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: LCSW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621562
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	105.254	20	100.0	0	105 85 115

Sample ID: N062348-001C-MS1	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: ZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621568
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	88.930	20	100.0	0	88.9 75 125

Sample ID: N062348-001C-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: ZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621569
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	89.450	20	100.0	0	89.4 75 125 88.93 0.583 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: MB-106013	SampType: MBLK	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180364						
Client ID: PBW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621701						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	0.10									
Calcium	ND	0.50									
Iron	ND	0.020									
Magnesium	ND	0.10									

Sample ID: LCS1-106013	SampType: LCS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180364						
Client ID: LCSW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.719	0.10	5.000	0	94.4	85	115				
Calcium	10.520	0.50	10.00	0	105	85	115				
Iron	0.105	0.020	0.1000	0	105	85	115				
Magnesium	10.841	0.10	10.00	0	108	85	115				

Sample ID: N062348-001C-MS1	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180364						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.515	0.10	5.000	0.5351	120	75	125				
Calcium	143.311	0.50	10.00	137.3	59.8	75	125				S
Iron	0.089	0.020	0.1000	0	88.9	75	125				
Magnesium	38.501	0.10	10.00	29.40	91.0	75	125				

Sample ID: N062348-001C-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180364						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.525	0.10	5.000	0.5351	120	75	125	6.515	0.144	20	
Calcium	145.058	0.50	10.00	137.3	77.2	75	125	143.3	1.21	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: N062348-001C-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180364						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	0.089	0.020	0.1000	0	89.4	75	125	0.08893	0.583	20	
Magnesium	38.654	0.10	10.00	29.40	92.5	75	125	38.50	0.397	20	

Sample ID: MB-106013	SampType: MBLK	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: PBW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	ND	0.50									
Sodium	ND	0.50									

Sample ID: LCS2-106013	SampType: LCS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: LCSW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	19.070	0.50	20.00	0	95.4	85	115				
Sodium	19.161	0.50	20.00	0	95.8	85	115				

Sample ID: N062346-001B-MS2	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	33.985	2.5	20.00	13.57	102	75	125				

Sample ID: N062346-001B-MS2	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	193.291	12	20.00	189.5	18.7	75	125				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: N062346-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	34.613	2.5	20.00	13.57	105	75	125	33.99	1.83	20	

Sample ID: N062346-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 1/12/2024	RunNo: 180410						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024	SeqNo: 5627164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	307.482	12	20.00	189.5	590	75	125	193.3	45.6	20	SR

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: N062348-001C-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024				SeqNo: 5621707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.299	0.10	5.000	0.5351	115	80	120				
Calcium	145.097	0.50	10.00	137.3	77.6	80	120				S
Iron	0.093	0.020	0.1000	0	92.7	80	120				
Magnesium	38.786	0.10	10.00	29.40	93.8	80	120				

Sample ID: N062346-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180410	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024				SeqNo: 5627157	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	111.414	2.5	100.0	13.57	97.8	80	120				

Sample ID: N062346-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180410	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024				SeqNo: 5627158	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	657.036	12	500.0	189.5	93.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-001

Client Sample ID: FW-02B-127-0124
Collection Date: 1/11/2024 3:31:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/14/2024 10:25 PM	
Barium	99	0.083	1.0	µg/L	1	1/14/2024 10:25 PM	
Manganese	19	0.026	0.50	µg/L	1	1/14/2024 10:25 PM	
Zinc	10	0.26	10	µg/L	1	1/14/2024 10:25 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062346
Project: PG&E Topock , 30121866
Lab ID: N062346-002

Client Sample ID: MW-88-107-0124
Collection Date: 1/11/2024 8:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	5.3	0.050	0.10	µg/L	1	1/14/2024 10:29 PM	
Barium	30	0.083	1.0	µg/L	1	1/14/2024 10:29 PM	
Manganese	4.7	0.026	0.50	µg/L	1	1/14/2024 10:29 PM	
Zinc	ND	0.26	10	µg/L	1	1/14/2024 10:29 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-106016	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411
Client ID: PBW	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630621
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID: LCS-106016	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411
Client ID: LCSW	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630622
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	9.165	0.10	10.00	0	91.6 85 115
Barium	9.840	1.0	10.00	0	98.4 85 115
Manganese	98.550	0.50	100.0	0	98.5 85 115
Zinc	95.870	10	100.0	0	95.9 85 115

Sample ID: N062346-002B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411
Client ID: ZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630627
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	14.975	0.10	10.00	5.293	96.8 75 125
Barium	39.885	1.0	10.00	29.83	101 75 125
Manganese	96.342	0.50	100.0	4.704	91.6 75 125
Zinc	89.408	10	100.0	1.720	87.7 75 125

Sample ID: N062346-002B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411
Client ID: ZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630628
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	14.551	0.10	10.00	5.293	92.6 75 125 14.98 2.88 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062346-002B-MSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 1/12/2024		RunNo: 180411	
Client ID: ZZZZZZ		Batch ID: 106016		TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024		SeqNo: 5630628			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	40.000	1.0	10.00	29.83	102	75	125	39.89	0.286	20	
Manganese	96.894	0.50	100.0	4.704	92.2	75	125	96.34	0.571	20	
Zinc	89.602	10	100.0	1.720	87.9	75	125	89.41	0.217	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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www.assetlaboratories.com

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement				QA/QC				Sample Receipt Condition																					
Address: 1410 Rocky Ridge Dr # 330		Company: Arcadis		Address:		Excel EDD		RTNE		Geotracker		RWQCB		1. Chilled		Y N																			
Address: Roseville, CA 95661		Email: dan.bush@arcadis.com daniel.moore@writuren.com		Address:		Labspec		CalTrans		Others		LEVEL III		2. Headspace																					
Phone: 916-786-3302		Fax:		Address: 1410 Rocky Ridge Dr # 330		Email to: mbloes@pivox.com		P.O.#		Specify: RWQCB		LEVEL IV		3. Container Intact		X																			
Submitted By: <i>Riggie Tep</i>		Address: Roseville, CA 95661		Phone: 949-727-1400, ext 200		Fax:		Global ID:		Specify State:		Regulatory		4. Seal Present																					
Title: <i>Field Tech</i>		Phone: 916-786-3302		Matrix		250 mL poly		500mL poly		500mL poly		500mL poly		1 liter poly		1 liter poly																			
Signature: <i>M 01/11/24</i>		Date: <i>01/11/24</i>		Sampled By: <i>Riggie Tep</i>		Ground		X Sediment		Potable		Soil		NPDES		Other Solid																			
Project Name: PG&E Topock -		Signature: <i>[Signature]</i>		Date: <i>01/11/24</i>		Surface		Surface		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Dissolved metals Title 22 (SW 6020), Field Filter; HNO3		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium,		Dissolved Metals (SW 6010B); HNO3 Arsenic, Barium, Boron, Calcium, Potassium, Sodium, Iron, Manganese, Magnesium, Zinc																			
Project Number: 30121866		I hereby authorize ASSET Labs to perform the tests indicated below.		I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Others		Bromide, Sulfate, Nitrate, Fluoride, Chloride (EPA 300.0)		Total Dissolved Solids (SM92540)		Alkalinity, Total as CaCO3 (SM2320B)		Hardness		Turn Around Time																			
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Dissolved metals Title 22 (SW 6020), Field Filter; HNO3		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium,		Dissolved Metals (SW 6010B); HNO3 Arsenic, Barium, Boron, Calcium, Potassium, Sodium, Iron, Manganese, Magnesium, Zinc		Bromide, Sulfate, Nitrate, Fluoride, Chloride (EPA 300.0)		Total Dissolved Solids (SM92540)		Alkalinity, Total as CaCO3 (SM2320B)		Hardness		No. of Container		Container Type		PRESERVATION		Remarks	
1		N062346-001		FW-02B-127-0124		1/11/2024		1531		X		X		X		X		X		X		X		E		3		P		BNS					
2		-002		MW-88-107-0124		1/11/2024		8:39		X		X		X		X		X		X		X		E		3		P		BNS					
3		-003		EB-708-Q124		1/11/2024		1545		X														E		1		P		BNS					
4																																			
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14																																			
Relinquished by (Signature and Printed Name): <i>Riggie Tep</i>		Date/Time: <i>01/11/24 1605</i>		Relinquished by (Signature and Printed Name): <i>MBCARTIN</i>		Date/Time: <i>1/11/24 @ 1605</i>																													
Relinquished by (Signature and Printed Name): <i>REL/REC: MBCARTIN</i>		Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i>		Date/Time: <i>1/11/24 @ 1810</i>																													
Relinquished by (Signature and Printed Name):		Date/Time:		Relinquished by (Signature and Printed Name):		Date/Time:																													
Terms		5. Trip Blanks and Equipment Blanks are billable samples.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are net 30 days.		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		9. For subcontract analysis, TAT and Surcharges will vary.		Turn Around Time (TAT)		Special Instruction:																					
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis		3. Custom EDD formats will be an additional 3% of the total project price.		4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.		TAT Starts at 8 AM the following day if samples received after 3:00PM.		Preservatives:		Container Type:																							
Less than 24 Hrs--200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%										H=HCL N=HNO3 S=H2SO4 C=4°C		T=Tube V=VOA P=Pin																							
										Z=Zn(AC)2 O=NaOH T=Na2S2O3		J=Jar B=Tedlar G=Glass																							
										Others/Specify: B (NH4)2SO4/NH4OH		M=Metal M=Metal C=Can																							

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 1/11/2024 Workorder: N062346
 Rep sample Temp (Deg C): 0.3/1.1 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

For:

Checklist Completed By: MBC *E Fanegof* 11/12/2024

Reviewed By: MBC *J. M. ...* 1/19/2024

ASSET Laboratories

WORK ORDER Summary

19-Jan-24

WorkOrder: N062346

Client ID: ARCUS02

Project: PG&E Topock , 30121866

QC Level: Level IV

Date Received: 1/11/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062346-001A	FW-02B-127-0124	1/11/2024 3:31:00 PM	1/26/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-001B			1/26/2024		SM 2340 B	Hardness by Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-001C			1/26/2024		SM2540C	TOTAL FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024			Total Dissolved Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		SM 2320 B	ALKALINITY, SPECIATED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		SM 1030F1	Cation-Anion Balance Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-002A	MW-88-107-0124	1/11/2024 8:39:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-002B			1/26/2024		SM 2340 B	Hardness by Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

19-Jan-24

WorkOrder: N062346

Client ID: ARCUS02

Project: PG&E Topock , 30121866

QC Level: Level IV

Date Received: 1/11/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062346-002B	MW-88-107-0124	1/11/2024 8:39:00 AM	1/26/2024	Groundwater	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-002C			1/26/2024		SM2540C	TOTAL FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024			Total Dissolved Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		SM 2320 B	ALKALINITY, SPECIATED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		SM 1030F1	Cation-Anion Balance Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-003A	EB-708-Q124	1/11/2024 3:45:00 PM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062346-004A	FOLDER	1/26/2024	1/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/26/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062346

NAME	TEST METHOD
Lilia Ramit	SM 2540C, SM 2320 B
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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SM 2540C



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Wet Chemistry Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

FIRST LEVEL REVIEW:

QC Batch Number: 106022

Analyst: LSR

ASSET #: N062346

Date Analyzed: 12-Jan

Method: EPA 160.1 / SM 2540C

	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
Initial Calibration						
1. ICAL before initial sample analysis or every 24 hrs.			X			X
2. Does correlation coefficient, r, meet criteria ?(r = 0.995)			X			X
3. ICV within ± 15% of expected value.			X			X
Continuing Calibration						
4. CCV after every 10 samples and at the end of analysis sequence.			X			X
5. CCV within ± 15% of expected value.			X			X
6. Calibration blanks run after ICV and CCV?			X			X
7. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)			X			X
Sample Information						
8. All samples are within linear range.			X			X
9. Are all samples analyzed within hold time.	X			X		
QC Items						
10. Method blank values are below 1/2 the reporting limit.	X			X		
11. LCS compounds within control limits.	X			X		
12. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
13. Are Non-Conformances documented			X			X
14. Runlog complete and included in package.	X			X		
15. Spectrophotometer tape included (Spec work only)			X			X
16. Digestion log complete and included in package (if applicable)			X			X
Preliminary Report						
17. Does the raw data match the preliminary report?	X			X		
18. Are analytical results correct?	X			X		
19. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer LSR

Date: 1/24/2024

2nd Level Reviewer JRB 1/24/2024

Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: SM 2540C

TEST NAME: Total Filterable Residue

MATRIX: Water

FORMULA:

Calculate TDS concentration in mg/L, in the original sample as follows:

$$\text{TDS, mg/L} = \frac{(A-B)*1000000}{C}$$

Where:

A = weight in g of dish + residue after drying

B = weight of dish in g

C = volume of sample used in mL

For N062346-001C, TDS concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{TDS, mg/L} &= \frac{(54.3469 - 54.2648)*1000000}{75} \\ &= 1094.6667 \text{ mg/L}\end{aligned}$$

Reporting result in two significant figures,

$$\text{TDS} = 1100 \text{ mg/L}$$

1/24/2024 LSR

Reviewed by:



1/24/2024

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: **1/12/2024 11:22:09 AM**

Prep End Date: **1/13/2024 1:15:00 PM**

Prep Batch **106022** Prep Code:**160.1_W_PREP**

Reviewed/ Date: *JRB* **1/24/2024**

Initials/ Date: **1/24/2024** **LSR**

Technician: **Lilia Ramit**

Page 1 of 1

Prep Factor Units: Temp. (°C):
mL / mL **180**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106022	Water		100	<input type="checkbox"/>	100	1.000		
MB-106022	Water		100	<input type="checkbox"/>	100	1.000		
N062310-019C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062310-020C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062310-021C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062310-022C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062310-023C	Groundwater		75	<input type="checkbox"/>	100	1.333		
N062346-001C	Groundwater		75	<input type="checkbox"/>	100	1.333		
N062346-002C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062350-001C	Groundwater		30	<input type="checkbox"/>	100	3.333		
N062350-001C-DUP	Groundwater		30	<input type="checkbox"/>	100	3.333		
N062350-010C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N062350-011C	Groundwater		100	<input type="checkbox"/>	100	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name	Spk ID	Spike Name	SampType	AmtAdd
15268	Glass Fiber Filter, 47mm	IWST231114A	1000 ppm NaCl	LCS	100

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 11:22:09 AM
 Prep End Date:

Reviewed/ Date: _____
 Initials/ Date: 1/24/2024 LSR
 Technician: Lilia Ramit

Page 1 of 1

Prep Batch 106022 Prep Code: 160.1_W_PREP

Prep Factor Units:
 mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106022	Water	1450311147	100	<input type="checkbox"/>	100	1.000		
MB-106022	Water		100	<input type="checkbox"/>	100	1.000		
N062310-019C	Groundwater	1438	100	<input type="checkbox"/>	100	1.000		
N062310-020C	Groundwater	643	100	<input type="checkbox"/>	100	1.000		
N062310-021C	Groundwater	640	100	<input type="checkbox"/>	100	1.000		
N062310-022C	Groundwater	984	100	<input type="checkbox"/>	100	1.000		
N062310-023C	Groundwater	1590	100	<input type="checkbox"/>	100	1.000		
N062346-001C	Groundwater	1813	100	<input type="checkbox"/>	100	1.000		
N062346-002C	Groundwater	742	100	<input type="checkbox"/>	100	1.000		
N062350-001C	Groundwater	4240	100	<input type="checkbox"/>	100	1.000		
N062350-001C-DUP	Groundwater	1	100	<input type="checkbox"/>	100	1.000		
N062350-010C	Groundwater	434	100	<input type="checkbox"/>	100	1.000		
N062350-011C	Groundwater	450	100	<input type="checkbox"/>	100	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

15268

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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Name of Test:

TDS

QC Batch No.:

106022

Date Prepared: Time Prepared: Prepared By:	11/21/24	In Oven	1	2	3
	1:22	Date:	11/21/24	11/21/24	
	LSM	Time:	9:45	1:30	
		Temp°C:	180	180	
		Out Oven			
		Date:	11/21/24	11/21/24	
	Time:	10:45	12:30		
	Temp°C:	180	180		

Date	Sample ID	Sample Vol. (ml)	Crucible + Filter (TSS)	Crucible + Filter+Sample (TSS)	Comments
11/21/24	MB - 106022	100	48.7178 48.7179	48.7177 48.7177	
12	LCS - 106022	100	53.5945 53.5944	53.6914 53.6917	
B	N062310-19C	100	67.0939 67.0937	67.1863 67.1863	
9	20C	100	62.8419 62.8416	62.8786 62.8783	
F	21C	100	65.1401 65.1400	65.1768 65.1771	
B3	22C	100	63.6723 63.6721	63.7317 63.7320	
12	232	75	59.3768 59.3766	59.4539 59.4541	
9	N062346-1C	75	54.2648 54.2648	54.3466 54.3469	
7	2C	100	53.0986 53.0988	53.1430 53.1433	
2	N062350-1C	30	48.6793 48.6793	48.7689 48.7692	
12	1C Dup	30	55.1463 55.1465	55.2381 55.2384	1/24/2024 LSR
5	10C	100	54.0919 54.0918	54.1192 54.1195	Reviewed by:
J	11C	100	65.6808 65.0806	65.1076 65.1079	JRB 1/24/2024



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 ELAP Cert 2921 | ELAP Cert 2676 | NV Cert NV00922
 EPA ID CA01638 | ORELAP Cert 4046 (EPA TO15 & TO3)

Logbook#26

46.9992 @ 1/13/1/13

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TOTAL DISSOLVED SOLIDS, TDS

TDS, mg/L =

$$(A-B) \times 10000 \times PF$$


where:

- A = weight in grams of dish + residue after drying
- B = weight of dish in grams
- PF = 100/volume of sample used in mL

	vol of sample (mL)	weight of dish in grams (B)	weight in grams of dish + residue after drying (A)	(A-B)*10000	prep fact (PF)	TDS, mg/L	CONDUCTIVITY	RATIO	Sample Type
Date Finished:									
1/13/2024									
MB-106022	100	48.7179	48.7177	-2	1	-2			MBLK
LCS-106022	100	53.5944	53.6917	973	1	973			LCS
N062310-019C	100	67.0937	67.1863	926	1	926	1438	0.644	SAMP
N062310-020C	100	62.8416	62.8783	367	1	367	643	0.571	SAMP
N062310-021C	100	65.14	65.1771	371	1	371	640	0.580	SAMP
N062310-022C	100	63.6721	63.732	599	1	599	984	0.609	SAMP
N062310-023C	75	59.3766	59.4541	775	1.33333333	1033.33333	1590	0.650	SAMP
N062346-001C	75	54.2648	54.3469	821	1.33333333	1094.66667	1813	0.604	SAMP
N062346-002C	100	53.0988	53.1433	445	1	445	742	0.600	SAMP
N062350-001C	30	48.6793	48.7692	899	3.33333333	2996.66667	4240	0.707	SAMP
N062350-001CDUP	30	55.1465	55.2384	919	3.33333333	3063.33333	4240	0.722	DUP
N062350-010C	100	54.0918	54.1195	277	1	277	434	0.638	SAMP
N062350-011C	100	65.0806	65.1079	273	1	273	450	0.607	SAMP

1/24/2024 LSR

Reviewed by:

 1/24/2024

EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180536
 ASSET #: N062346

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 1/17/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer RB 01252024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062346-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 3.4154 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 17.0770$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 17$$

Reviewed by:

d/Rocha 1/31/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240117A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/17/24 9:23 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/17/24 9:34 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/17/24 9:43 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/17/24 9:53 AM	Reported
13	MB-R180536	MBLK	1	Hexavalent Chromium	01/17/24 10:02 AM	Reported
14	LCS-R180536	LCS	1	Hexavalent Chromium	01/17/24 10:12 AM	Reported
15	N062346-001A	SAMP	5	Hexavalent Chromium	01/17/24 10:33 AM	Reported
16	N062346-001AMS	MS	5	Hexavalent Chromium	01/17/24 10:45 AM	Reported
17	N062346-002A	SAMP	5	Hexavalent Chromium	01/17/24 10:55 AM	Reported
18	N062346-002AMS	MS	5	Hexavalent Chromium	01/17/24 11:04 AM	Reported
19	N062346-003A	SAMP	1	Hexavalent Chromium	01/17/24 11:14 AM	Reported
20	N062346-003AMS	MS	1	Hexavalent Chromium	01/17/24 11:23 AM	Reported
21	N062346-001AMSD	MSD	5	Hexavalent Chromium	01/17/24 11:33 AM	Reported
22	N062346-002ADUP	DUP	5	Hexavalent Chromium	01/17/24 11:42 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/17/24 11:52 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/17/24 12:01 PM	Reported
25	N062208-005A	SAMP	1	Hexavalent Chromium	01/17/24 12:11 PM	Not Reported
26	N062208-005AMS	MS	1	Hexavalent Chromium	01/17/24 12:20 PM	Not Reported
27	N062429-001A	SAMP	1	Hexavalent Chromium	01/17/24 12:29 PM	Not Reported
28	N062429-001AMS	MS	1	Hexavalent Chromium	01/17/24 12:39 PM	Not Reported
29	N062429-002A	SAMP	1	Hexavalent Chromium	01/17/24 12:48 PM	Not Reported
30	N062429-002AMS	MS	1	Hexavalent Chromium	01/17/24 12:58 PM	Not Reported
31	N062429-003A	SAMP	1	Hexavalent Chromium	01/17/24 1:07 PM	Not Reported
32	N062429-003AMS	MS	1	Hexavalent Chromium	01/17/24 1:17 PM	Not Reported
33	N062435-004A	SAMP	20	Hexavalent Chromium	01/17/24 1:26 PM	Reported
34	N062435-005A	SAMP	20	Hexavalent Chromium	01/17/24 1:36 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/17/24 1:45 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/17/24 1:55 PM	Reported
37	N062433-003A	SAMP	1	Hexavalent Chromium	01/17/24 2:04 PM	Reported
38	N062434-001A	SAMP	1	Hexavalent Chromium	01/17/24 2:14 PM	Reported
39	N062434-002A	SAMP	1	Hexavalent Chromium	01/17/24 2:23 PM	Reported
40	N062434-003A	SAMP	1	Hexavalent Chromium	01/17/24 2:32 PM	Not Reported
41	N062434-007A	SAMP	1	Hexavalent Chromium	01/17/24 2:42 PM	Reported
42	N062434-008A	SAMP	1	Hexavalent Chromium	01/17/24 2:51 PM	Reported

Reviewed by:

JRB 1/25/2024

Mecha 2/4/2024
for RBA **63**

INJECTION LOG: 240117A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062435-001A	SAMP	1	Hexavalent Chromium	01/17/24 3:01 PM	Reported
44	N062435-002A	SAMP	1	Hexavalent Chromium	01/17/24 3:10 PM	Reported
45	N062435-003A	SAMP	1	Hexavalent Chromium	01/17/24 3:20 PM	Reported
46	N062435-006A	SAMP	1	Hexavalent Chromium	01/17/24 3:46 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/17/24 3:57 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/17/24 4:07 PM	Reported
49	N062433-001A	SAMP	1	Hexavalent Chromium	01/17/24 4:16 PM	Reported
50	N062433-002A	SAMP	1	Hexavalent Chromium	01/17/24 4:25 PM	Reported
51	N062429-003AMS	MS	1	Hexavalent Chromium	01/17/24 4:35 PM	Not Reported
52	MB-R180537	MBLK	1	Hexavalent Chromium	01/17/24 4:44 PM	Reported
53	LCS-R180537	LCS	1	Hexavalent Chromium	01/17/24 4:54 PM	Reported
54	N062436-002A	SAMP	1	Hexavalent Chromium	01/17/24 5:03 PM	Reported
55	N062435-016A	SAMP	1	Hexavalent Chromium	01/17/24 5:13 PM	Reported
56	N062436-002AMS	MS	1	Hexavalent Chromium	01/17/24 5:22 PM	Reported
57	N062436-002AMSD	MSD	1	Hexavalent Chromium	01/17/24 5:32 PM	Reported
58	N062435-016AMS	MS	1	Hexavalent Chromium	01/17/24 5:41 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/17/24 5:53 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/17/24 6:03 PM	Reported
61	N062435-016ADUP	DUP	1	Hexavalent Chromium	01/17/24 6:12 PM	Reported
62	N062435-007A	SAMP	1	Hexavalent Chromium	01/17/24 6:22 PM	Reported
63	N062435-008A	SAMP	1	Hexavalent Chromium	01/17/24 6:31 PM	Reported
64	N062435-009A	SAMP	1	Hexavalent Chromium	01/17/24 6:41 PM	Reported
65	N062435-010A	SAMP	1	Hexavalent Chromium	01/17/24 6:50 PM	Reported
66	N062435-011A	SAMP	1	Hexavalent Chromium	01/17/24 7:00 PM	Not Reported
67	N062435-012A	SAMP	1	Hexavalent Chromium	01/17/24 7:09 PM	Reported
68	N062435-013A	SAMP	1	Hexavalent Chromium	01/17/24 7:19 PM	Reported
69	N062435-014A	SAMP	1	Hexavalent Chromium	01/17/24 7:28 PM	Reported
70	N062435-015A	SAMP	1	Hexavalent Chromium	01/17/24 7:38 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/17/24 7:47 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/17/24 7:56 PM	Reported
73	N062436-001A	SAMP	1	Hexavalent Chromium	01/17/24 8:06 PM	Reported
74	N062436-003A	SAMP	1	Hexavalent Chromium	01/17/24 8:15 PM	Reported
75	N062436-004A	SAMP	1	Hexavalent Chromium	01/17/24 8:25 PM	Reported
76	N062436-005A	SAMP	1	Hexavalent Chromium	01/17/24 8:34 PM	Not Reported
77	N062436-006A	SAMP	1	Hexavalent Chromium	01/17/24 8:44 PM	Reported
78	N062436-007A	SAMP	1	Hexavalent Chromium	01/17/24 8:53 PM	Reported
79	N062436-008A	SAMP	1	Hexavalent Chromium	01/17/24 9:03 PM	Reported
80	N062436-009A	SAMP	1	Hexavalent Chromium	01/17/24 9:12 PM	Reported
81	N062436-0010A	SAMP	1	Hexavalent Chromium	01/17/24 9:21 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	01/17/24 9:31 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	01/17/24 9:40 PM	Reported
84	BLANK	BLANK	1	Hexavalent Chromium	01/17/24 9:50 PM	Not Reported



Injection Log Summary

Sequence Details

Name:	IC-07_240117A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	17/Jan/24 22:20:35
No. of Injections:	87	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/17/2024 09:23	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		01/17/2024 09:34	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		01/17/2024 09:43	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		01/17/2024 09:53	Finished	CCB R231227C
13	MB-H2O.MBLK,1,	5	1000	Unknown		01/17/2024 10:02	Finished	MB R231227C
14	LCS-H2O.LCS,1,	6	1000	Unknown		01/17/2024 10:12	Finished	LCS @5ppb, IWST-231228B
15	N062346-001A,SAMF	1	1000	Unknown		01/17/2024 10:33	Finished	SAMP,>10 mL
16	N062346-001AMS,MS	2	1000	Unknown		01/17/2024 10:45	Finished	MS (5ppb), IWST-231228B,2>
17	N062346-002A,SAMF	3	1000	Unknown		01/17/2024 10:55	Finished	SAMP,>10 mL
18	N062346-002AMS,MS	4	1000	Unknown		01/17/2024 11:04	Finished	MS (5ppb), IWST-231228B,2>
19	N062346-003A,SAMF	5	1000	Unknown		01/17/2024 11:14	Finished	SAMP,10 mL
20	N062346-003AMS,MS	6	1000	Unknown		01/17/2024 11:23	Finished	MS (1ppb), IWST-231228B,10r
21	N062346-001AMSD,MS	7	1000	Unknown		01/17/2024 11:33	Finished	MSD (5ppb), IWST-231228B,2>
22	N062346-002ADUP,D	8	1000	Unknown		01/17/2024 11:42	Finished	DUP,>10 mL
23	CCV-2.CCV1,1,	9	1000	Unknown		01/17/2024 11:52	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		01/17/2024 12:01	Finished	CCB R231030A
25	N062208-005A,SAMF	11	1000	Unknown		01/17/2024 12:11	Finished	SAMP,10 mL
26	N062208-005AMS,MS	12	1000	Unknown		01/17/2024 12:20	Finished	MS (1ppb), IWST-231228B,10r
27	N062429-001A,SAMF	13	1000	Unknown		01/17/2024 12:29	Finished	SAMP,10 mL
28	N062429-001AMS,MS	14	1000	Unknown		01/17/2024 12:39	Finished	MS (1ppb), IWST-231228B,10r
29	N062429-002A,SAMF	15	1000	Unknown		01/17/2024 12:48	Finished	SAMP,10 mL
30	N062429-002AMS,MS	16	1000	Unknown		01/17/2024 12:58	Finished	MS (1ppb), IWST-231228B,10r
31	N062429-003A,SAMF	17	1000	Unknown		01/17/2024 13:07	Finished	SAMP,10 mL
32	N062429-003AMS,MS	18	1000	Unknown		01/17/2024 13:17	Finished	MS (1ppb), IWST-231228B,10r
33	N062435-004A,SAMF	19	1000	Unknown		01/17/2024 13:26	Finished	SAMP,0.5>10 mL
34	N062435-005A,SAMF	20	1000	Unknown		01/17/2024 13:36	Finished	SAMP,0.5>10 mL
35	CCV-3.CCV,1,	21	1000	Unknown		01/17/2024 13:45	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	22	1000	Unknown		01/17/2024 13:55	Finished	CCB R231227C
37	N062433-003A,SAMF	23	1000	Unknown		01/17/2024 14:04	Finished	SAMP,10 mL
38	N062434-001A,SAMF	24	1000	Unknown		01/17/2024 14:14	Finished	SAMP,10 mL
39	N062434-002A,SAMF	25	1000	Unknown		01/17/2024 14:23	Finished	SAMP,10 mL
40	N062434-003A,SAMF	26	1000	Unknown		01/17/2024 14:32	Finished	SAMP,10 mL
41	N062434-007A,SAMF	27	1000	Unknown		01/17/2024 14:42	Finished	SAMP,10 mL
42	N062434-008A,SAMF	28	1000	Unknown		01/17/2024 14:51	Finished	SAMP,10 mL
43	N062435-001A,SAMF	29	1000	Unknown		01/17/2024 15:01	Finished	SAMP,10 mL
44	N062435-002A,SAMF	30	1000	Unknown		01/17/2024 15:10	Finished	SAMP,10 mL
45	N062435-003A,SAMF	31	1000	Unknown		01/17/2024 15:20	Finished	SAMP,10 mL
46	N062435-006A,SAMF	1	1000	Unknown		01/17/2024 15:46	Finished	SAMP,10 mL
47	CCV-4.CCV1,1,	2	1000	Unknown		01/17/2024 15:57	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	3	1000	Unknown		01/17/2024 16:07	Finished	CCB R231030A
49	N062433-001A,SAMF	4	1000	Unknown		01/17/2024 16:16	Finished	SAMP,10 mL
50	N062433-002A,SAMF	5	1000	Unknown		01/17/2024 16:25	Finished	SAMP,10 mL
51	N062429-003AMS,MS	6	1000	Unknown		01/17/2024 16:35	Finished	MS (1ppb), IWST-231228B,10r
52	MB-2.MBLK,1,	7	1000	Unknown		01/17/2024 16:44	Finished	MB R231227C
53	LCS-2.LCS,1,	8	1000	Unknown		01/17/2024 16:54	Finished	LCS @5ppb, IWST-231228B
54	N062436-002A,SAMF	9	1000	Unknown		01/17/2024 17:03	Finished	SAMP,10 mL
55	N062435-016A,SAMF	10	1000	Unknown		01/17/2024 17:13	Finished	SAMP,10 mL
56	N062436-002AMS,MS	11	1000	Unknown		01/17/2024 17:22	Finished	MS (1ppb), IWST-231228B,10r
57	N062436-002AMSD,MS	12	1000	Unknown		01/17/2024 17:32	Finished	MSD (1ppb), IWST-231228B,10r
58	N062435-016AMS,MS	13	1000	Unknown		01/17/2024 17:41	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5.CCV,1,	14	1000	Unknown		01/17/2024 17:53	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	15	1000	Unknown		01/17/2024 18:03	Finished	CCB R231227C

61	N062435-016ADUP.D	16	1000	Unknown	01/17/2024 18:12	Finished	DUP,10 mL
62	N062435-007A,SAMF	17	1000	Unknown	01/17/2024 18:22	Finished	SAMP,10 mL
63	N062435-008A,SAMF	18	1000	Unknown	01/17/2024 18:31	Finished	SAMP,10 mL
64	N062435-009A,SAMF	19	1000	Unknown	01/17/2024 18:41	Finished	SAMP,10 mL
65	N062435-010A,SAMF	20	1000	Unknown	01/17/2024 18:50	Finished	SAMP,10 mL
66	N062435-011A,SAMF	21	1000	Unknown	01/17/2024 19:00	Finished	SAMP,10 mL
67	N062435-012A,SAMF	22	1000	Unknown	01/17/2024 19:09	Finished	SAMP,10 mL
68	N062435-013A,SAMF	23	1000	Unknown	01/17/2024 19:19	Finished	SAMP,10 mL
69	N062435-014A,SAMF	24	1000	Unknown	01/17/2024 19:28	Finished	SAMP,10 mL
70	N062435-015A,SAMF	25	1000	Unknown	01/17/2024 19:38	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	26	1000	Unknown	01/17/2024 19:47	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	27	1000	Unknown	01/17/2024 19:56	Finished	CCB R231227C
73	N062436-001A,SAMF	28	1000	Unknown	01/17/2024 20:06	Finished	SAMP,10 mL
74	N062436-003A,SAMF	29	1000	Unknown	01/17/2024 20:15	Finished	SAMP,10 mL
75	N062436-004A,SAMF	30	1000	Unknown	01/17/2024 20:25	Finished	SAMP,10 mL
76	N062436-005A,SAMF	31	1000	Unknown	01/17/2024 20:34	Finished	SAMP,10 mL
77	N062436-006A,SAMF	32	1000	Unknown	01/17/2024 20:44	Finished	SAMP,10 mL
78	N062436-007A,SAMF	33	1000	Unknown	01/17/2024 20:53	Finished	SAMP,10 mL
79	N062436-008A,SAMF	34	1000	Unknown	01/17/2024 21:03	Finished	SAMP,10 mL
80	N062436-009A,SAMF	35	1000	Unknown	01/17/2024 21:12	Finished	SAMP,10 mL
81	N062436-0010A,SAMF	36	1000	Unknown	01/17/2024 21:21	Finished	SAMP,10 mL
82	CCV-7,CCV,1,	37	1000	Unknown	01/17/2024 21:31	Finished	CCV @5ppb, IWST-231228A
83	CCB-7,CCB,1,	38	1000	Unknown	01/17/2024 21:40	Finished	CCB R231227C
84	BLANK	39	1000	Unknown	01/17/2024 21:50	Finished	BLANK
85	SHUTDOWN	40	1000	Unknown	01/17/2024 21:59	Finished	
86	Eluent: R240114A	41	1000	Unknown	n.a.	Finished	
87	PCR: R240114B	42	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Hexavalent Chromium Preparation and Runlog

Sample Preparation						
Date Prepared: <u>1/11/24</u>			Reagent ID: _____			
Time Prepared: <u>11:5/14:00H</u>			Sulfuric Acid: <u>14375</u>			
Prepared By: <u>NA</u>			Diphenylcarbazide: <u>15709</u>			
			NH4OH + NH4SO4 eluent: <u>N240108A</u>			
			NH4OH + NH4SO4 buffer: <u>N231228B</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) M62312-8A	9.60	-	-200 u	-200 u		
2) 9A	9.67	-				
3) 10A	9.08	9.49			+5	
4) 11A	9.72	-				
5) 12A	9.73	-				
6) 13A	9.76	-				
7) 14A	9.44	-				
8) 15A	9.32	-				
9) 16A	9.30	-				
10) 17A	9.37	-				
11) 18A	9.31	-				
12) 19A	9.69	-				
13) M62314-20	7.05	9.50			+0.2u N231228B / 10u PV	
14)						
15)						

Sample Preparation						
Date Prepared: <u>1/12/24</u>			Reagent ID: _____			
Time Prepared: <u>11:5H</u>			Sulfuric Acid: <u>14375</u>			
Prepared By: <u>NA</u>			Diphenylcarbazide: <u>15709</u>			
			NH4OH + NH4SO4 eluent: <u>N240108A</u>			
			NH4OH + NH4SO4 buffer: <u>N231228B</u>			
Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) M62345-03	7.48	9.47	-200uL	100uL	+0.2u N231228B / 10u PV	
2) M62346-1A	9.39	-				
3) 2A	9.47	-				
4) 3A	7.68	-				
5) M62348-1A	9.31	-				
6) 2A	9.42	-				
7) 3A	9.44	-				
8) 4A	9.11	9.49			+4	
9) 5A	9.72	-				
10) 6A	9.31	-				
11) 7A	8.81	9.54			+5	
12) 8A	8.85	9.53			+5	
13) 9A	9.39	-				
14) 10A	9.45	-				
15) 11A	9.74	-				
M62310-10	9.47	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

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3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert N 6822
ORELAP Cert 4046 (EPA TO-15) 6/1/03

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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock- , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ICV	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5633879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5633880						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCV	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.916 0.20 5.000 0 98.3 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.218 0.20 0.2000 0 109 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633895						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 10.036 0.20 10.00 0 100 95 105

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - Calculations are based on raw values

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock- , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCV	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633904							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.006	0.20	5.000	0	100	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ZZZZZ	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633916							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.134	0.20	10.00	0	101	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCV	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633921							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.007	0.20	5.000	0	100	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock- , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: ICB	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5633881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCB	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCB	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCB	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCB	Batch ID: R180536	TestNo: EPA 218.6		Analysis Date: 1/17/2024	SeqNo: 5633917						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock- , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180536						
Client ID: CCB	Batch ID: R180536	TestNo: EPA 218.6	Analysis Date: 1/17/2024	SeqNo: 5633922							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/17/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.023	
CCV-2	4.031	
CCV-3	4.040	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	

Average 4.031

Actual RT Window 3.951 - 4.111

Applied RT Window 3.831 - 4.231

MB-R180536	N.A.	N.A.
LCS-R180536	4.031	PASS
N062346-001A	4.031	PASS
N062346-001AMS	4.023	PASS
N062346-002A	4.023	PASS
N062346-002AMS	4.023	PASS
N062346-003A	N.A.	N.A.
N062346-003AMS	4.031	PASS
N062346-001AMSD	4.023	PASS
N062346-002ADUP	4.031	PASS
N062208-005A	4.015	PASS
N062208-005AMS	4.023	PASS
N062429-001A	N.A.	N.A.
N062429-002A	N.A.	N.A.
N062429-003A	N.A.	N.A.
N062429-003AMS	3.840	PASS
N062435-004A	4.031	PASS
N062435-005A	4.031	PASS
N062433-003A	4.023	PASS
N062434-001A	N.A.	N.A.
N062434-002A	N.A.	N.A.

Reviewed by:

dRocha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/17/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.023	
CCV-2	4.031	
CCV-3	4.040	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	

Average 4.031

Actual RT Window 3.951 - 4.111

Applied RT Window 3.831 - 4.231

N062434-003A	4.023	PASS
N062434-007A	3.956	PASS
N062434-008A	3.965	PASS
N062435-001A	N.A.	N.A.
N062435-002A	4.015	PASS
N062435-003A	4.006	PASS
N062435-006A	4.040	PASS
N062433-001A	4.040	PASS
N062433-002A	4.048	PASS
N062429-003AMS	3.840	PASS
MB-R180537	N.A.	N.A.
LCS-R180537	4.031	PASS
N062436-002A	4.006	PASS
N062435-016A	4.023	PASS
N062436-002AMS	4.015	PASS
N062436-002AMSD	4.015	PASS
N062435-016AMS	4.031	PASS
N062435-016ADUP	4.023	PASS
N062435-007A	4.031	PASS
N062435-008A	4.040	PASS
N062435-009A	N.A.	N.A.

Reviewed by:

M. Rocha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/17/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.023	
CCV-2	4.031	
CCV-3	4.040	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	

Average 4.031

Actual RT Window 3.951 - 4.111

Applied RT Window 3.831 - 4.231

N062435-010A	N.A.	N.A.
N062435-011A	4.023	PASS
N062435-012A	4.023	PASS
N062435-013A	N.A.	N.A.
N062435-014A	4.031	PASS
N062435-015A	4.023	PASS
N062436-001A	4.015	PASS
N062436-003A	4.023	PASS
N062436-004A	4.023	PASS
N062436-005A	4.031	PASS
N062436-006A	4.031	PASS
N062436-007A	N.A.	N.A.
N062436-008A	N.A.	N.A.
N062436-009A	N.A.	N.A.
N062436-0010A	N.A.	N.A.

Reviewed by:

d/Rocha 1/31/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

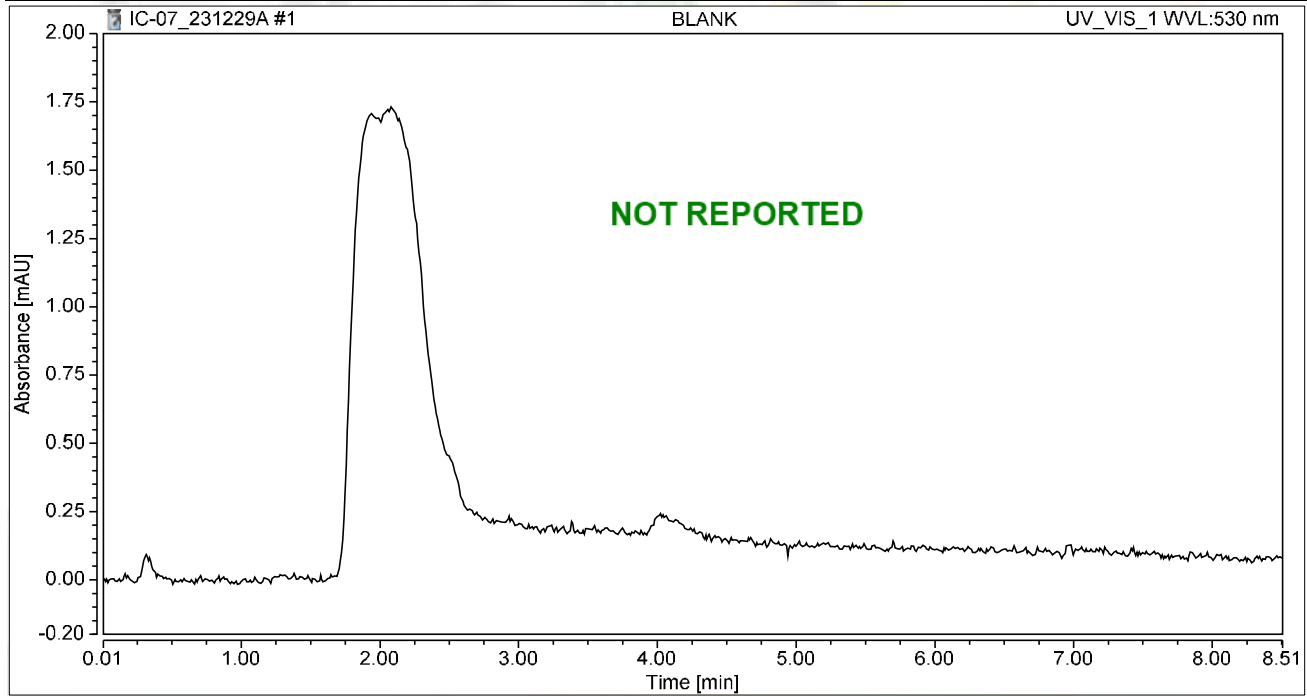
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

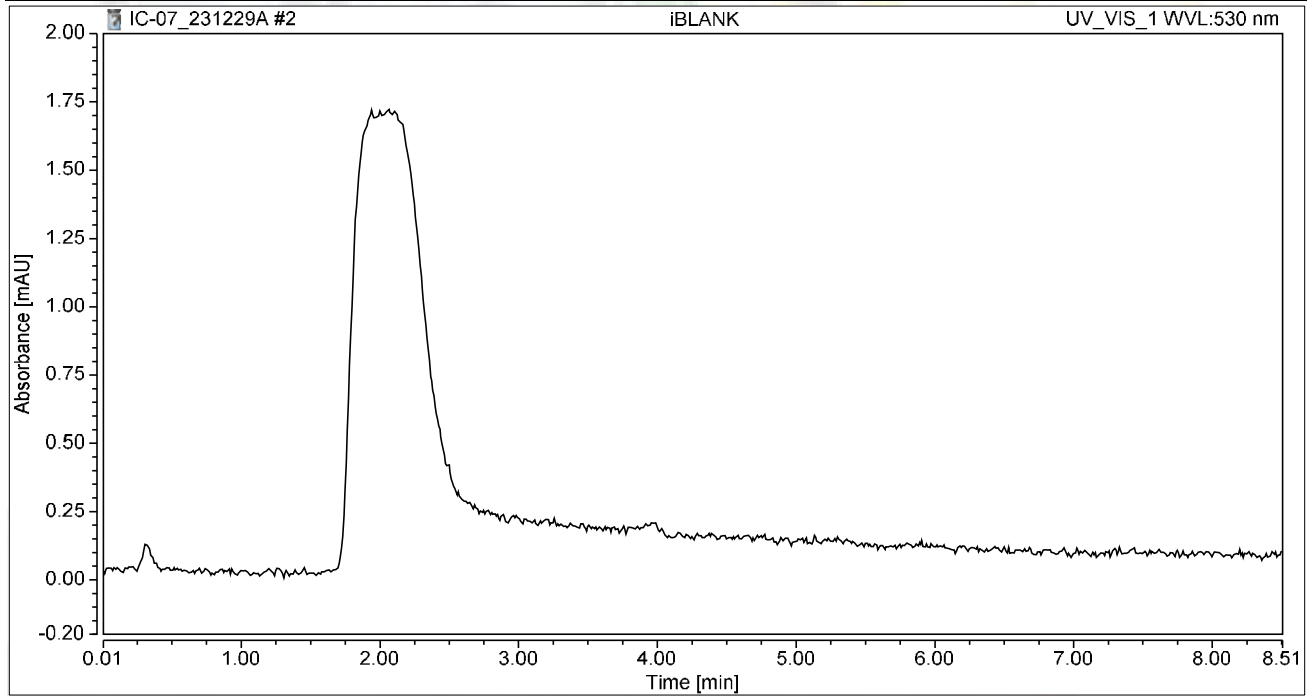
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Denny

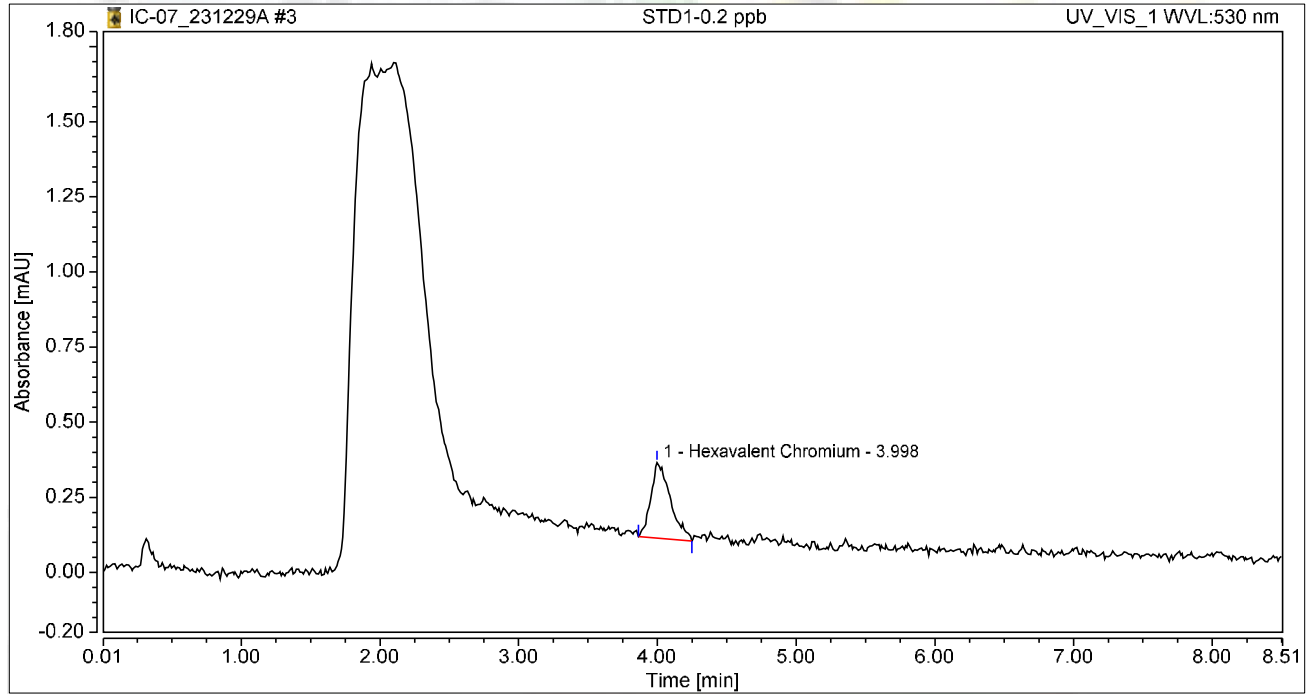
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

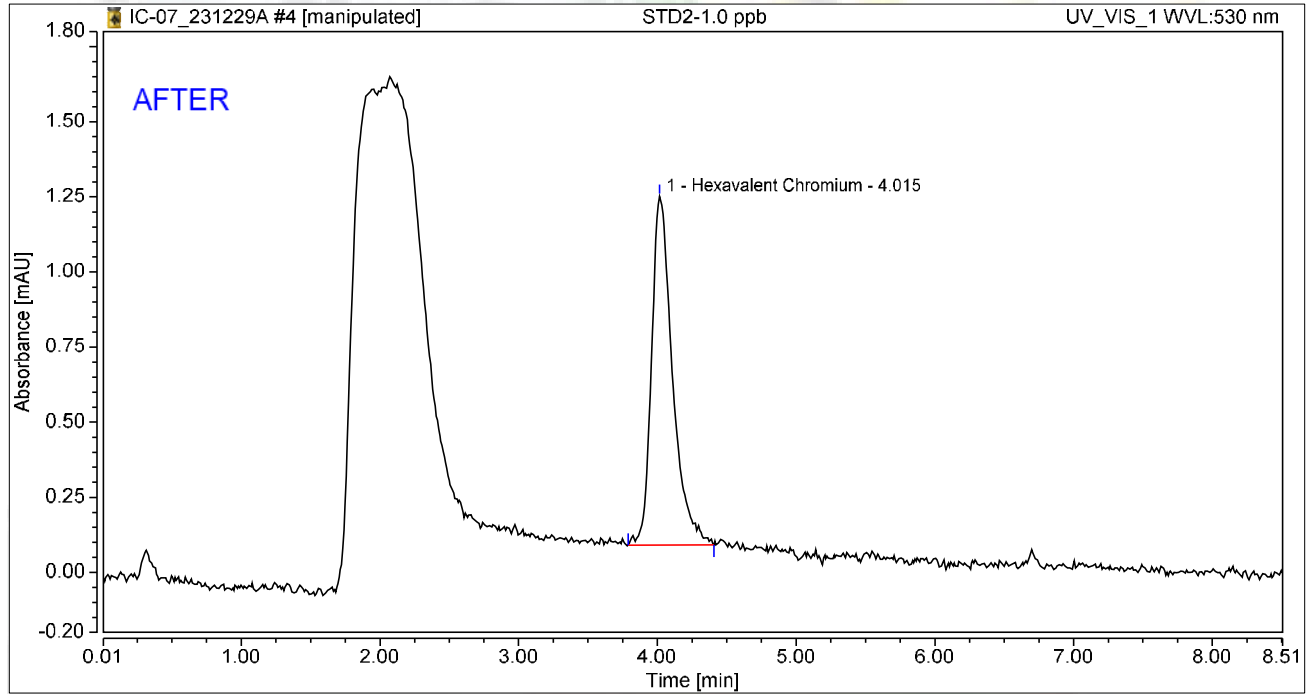
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

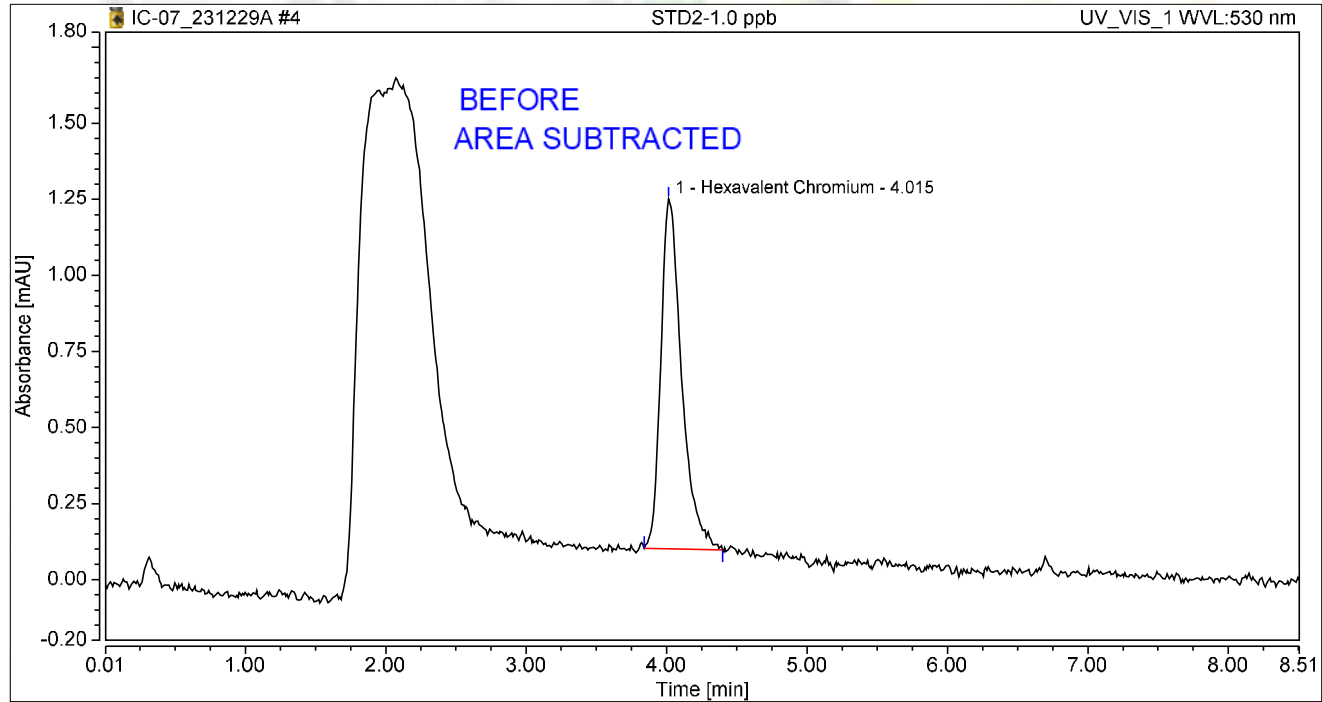
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD2-1.0 ppb	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	02	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight: 1.0000

Chromatogram



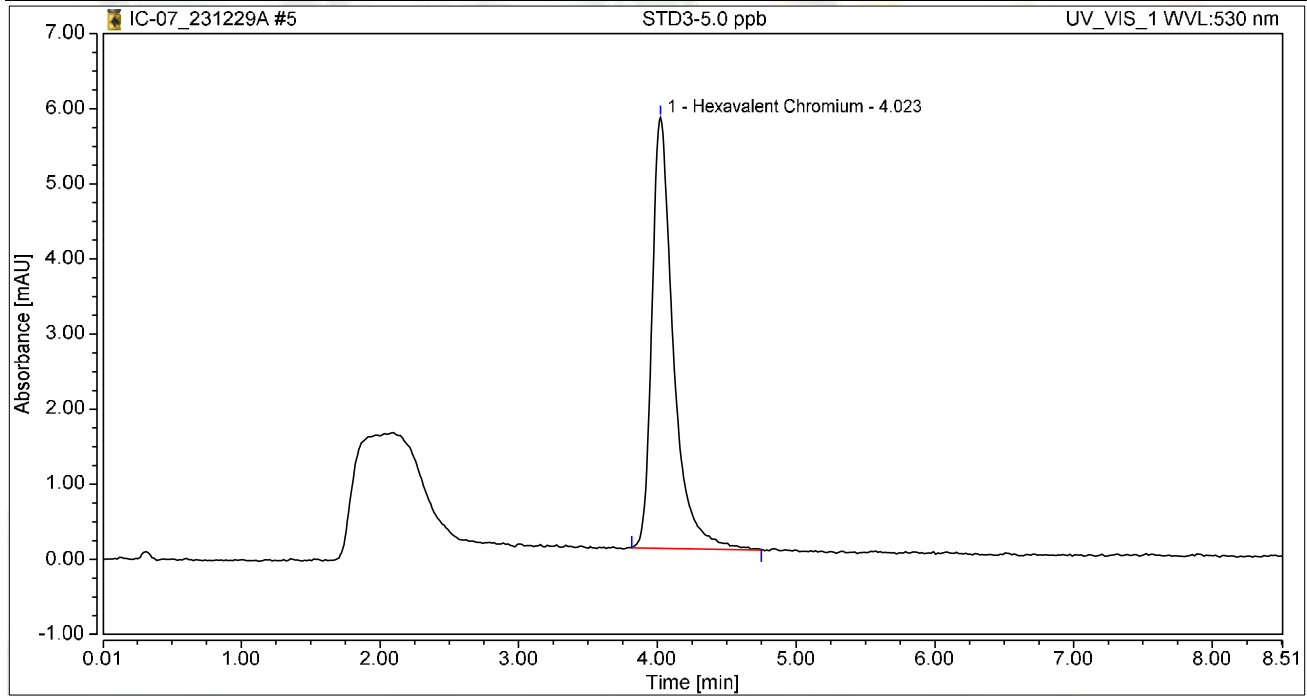
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

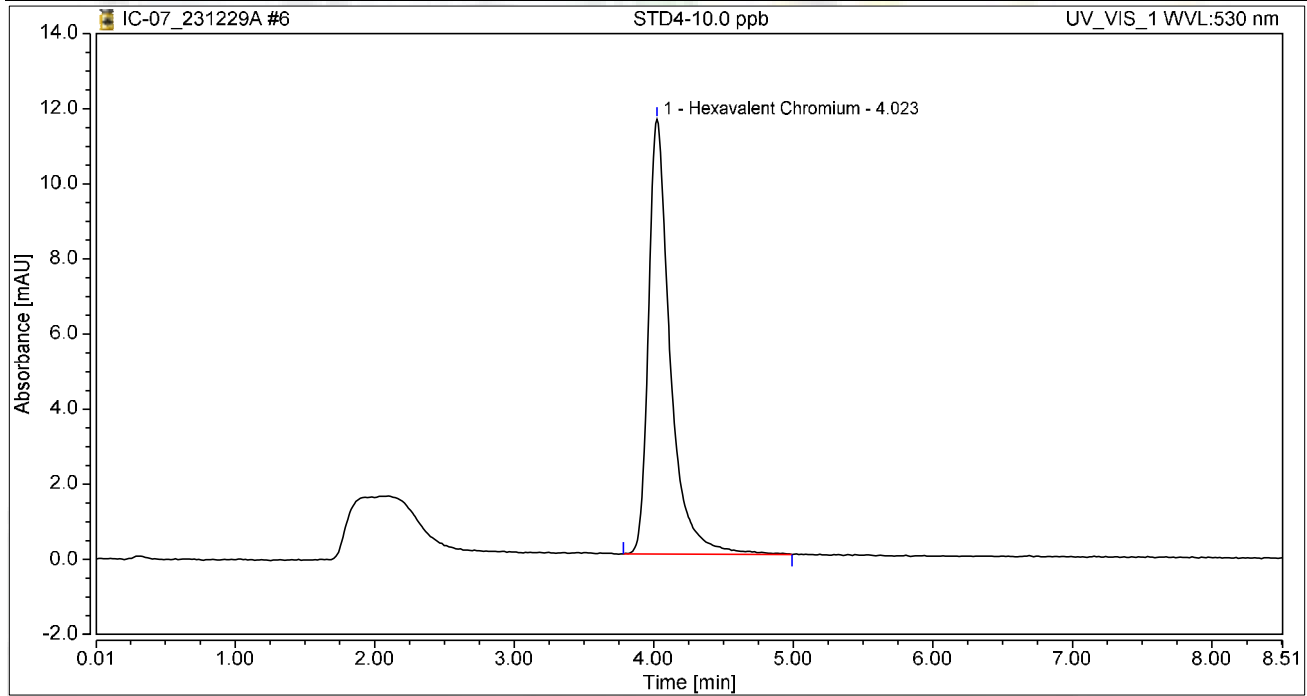
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

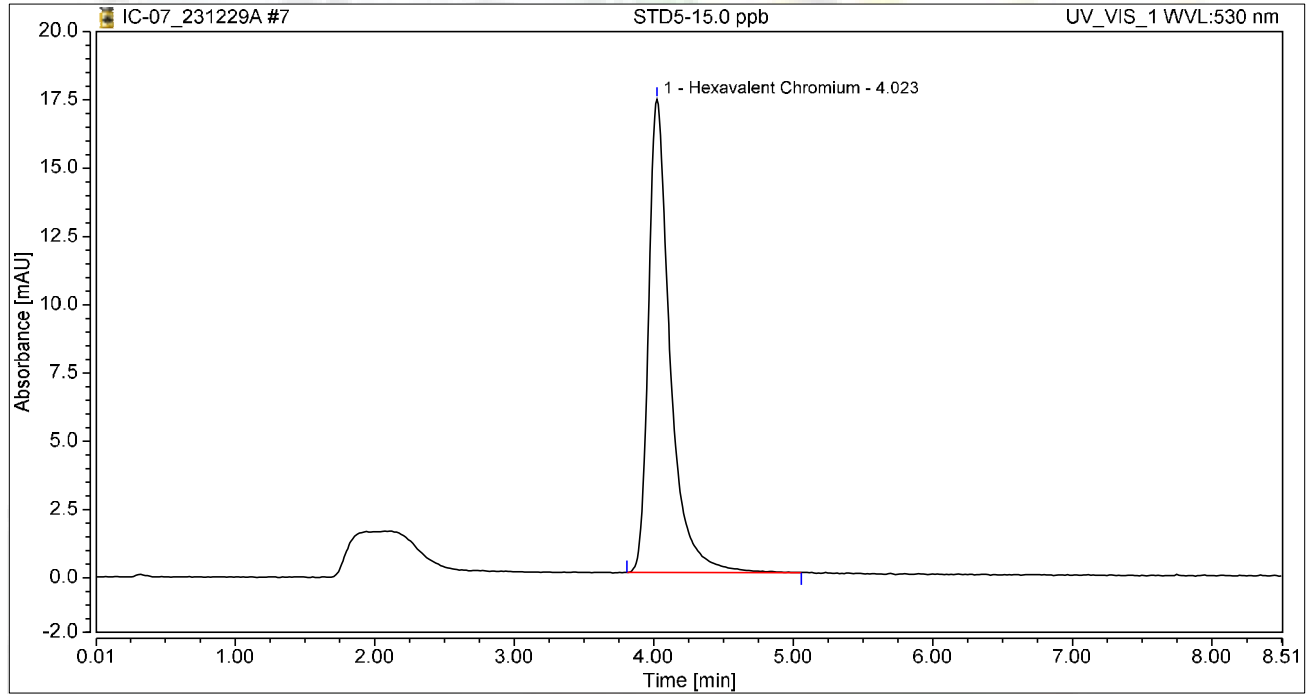
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

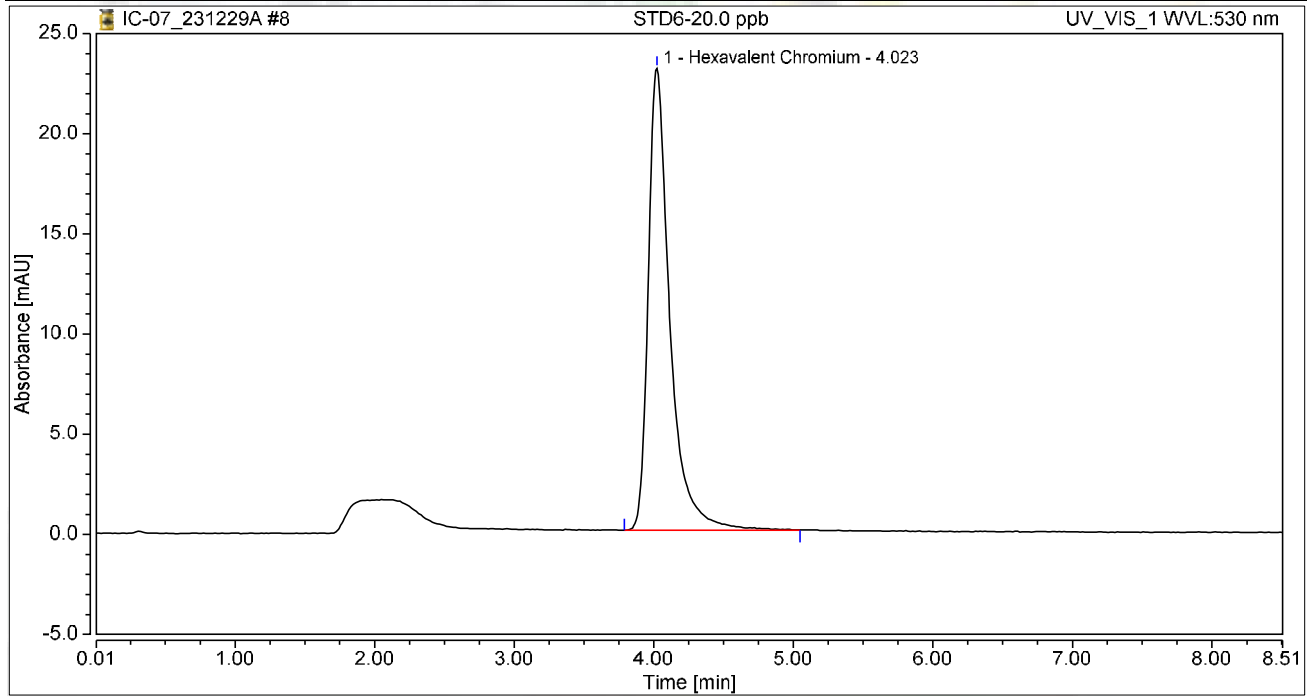
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

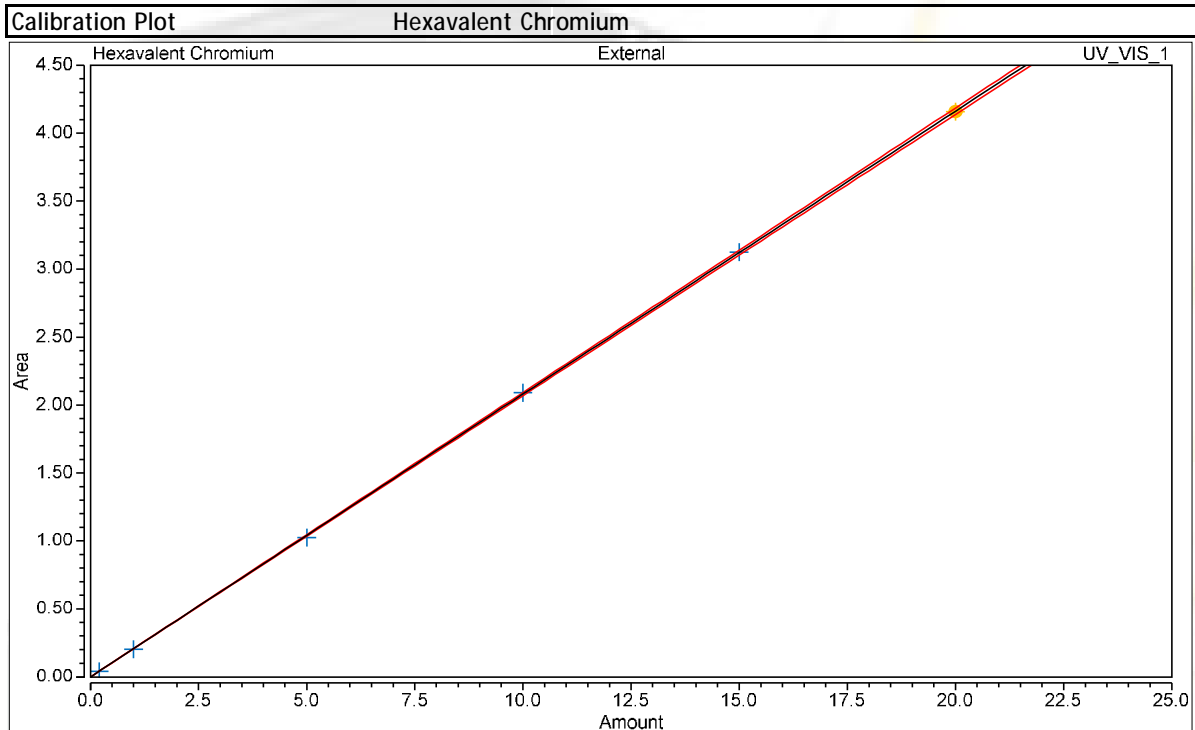
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



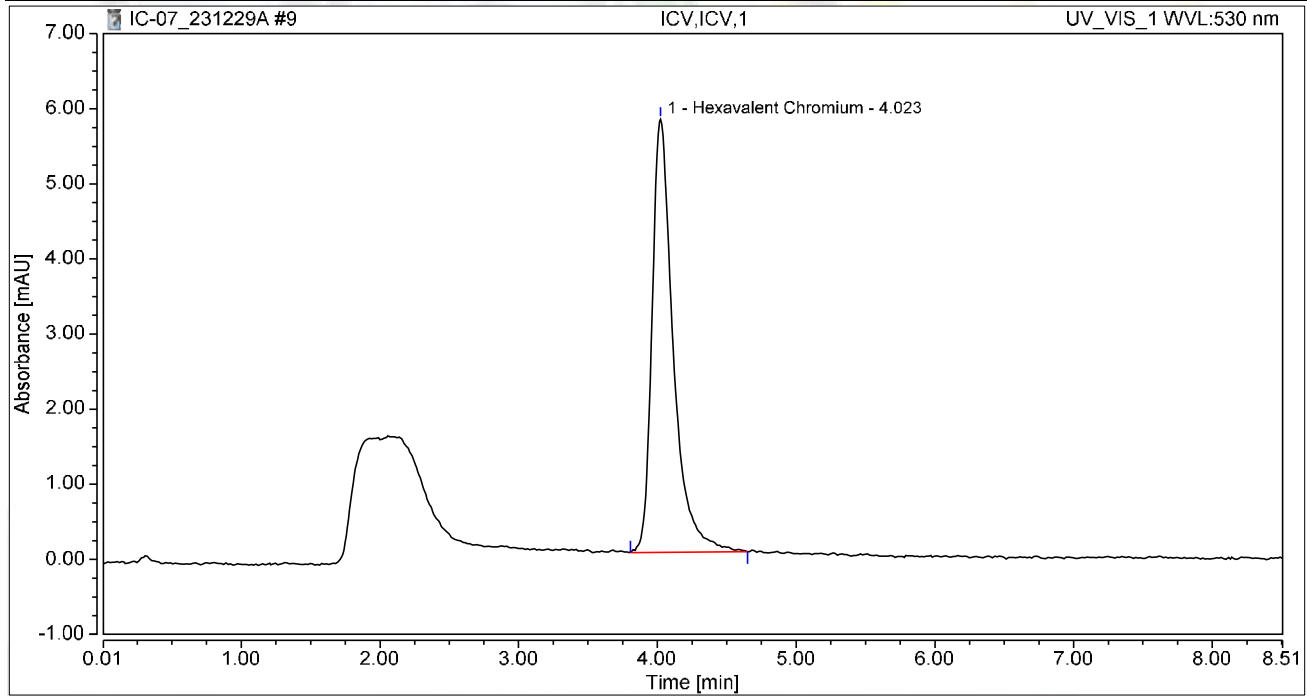
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



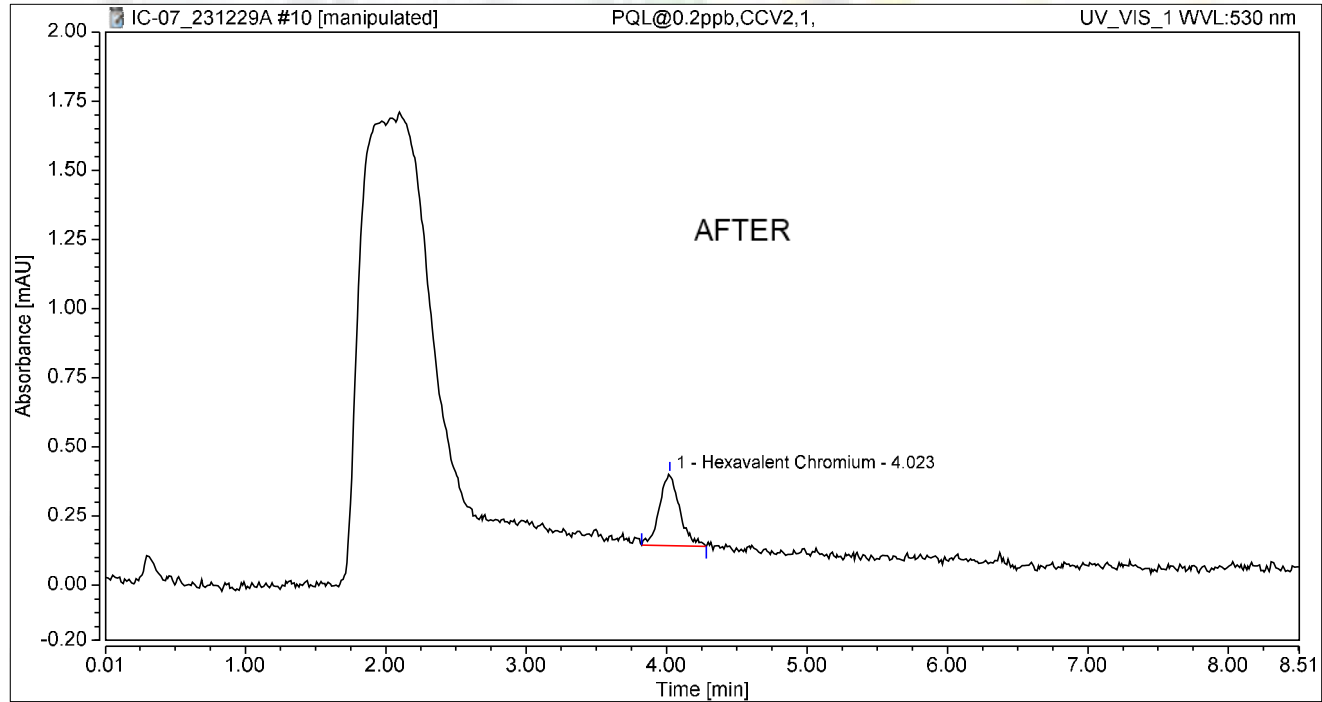
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

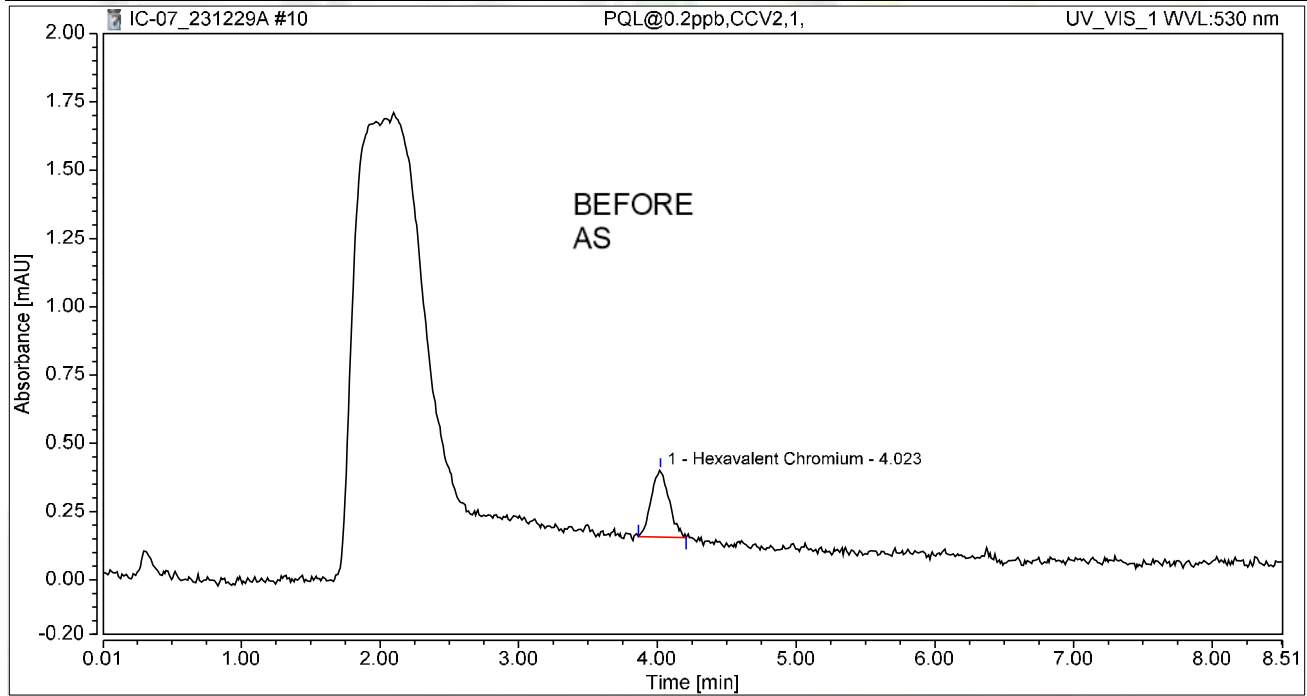
Reviewed by
Nancy 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

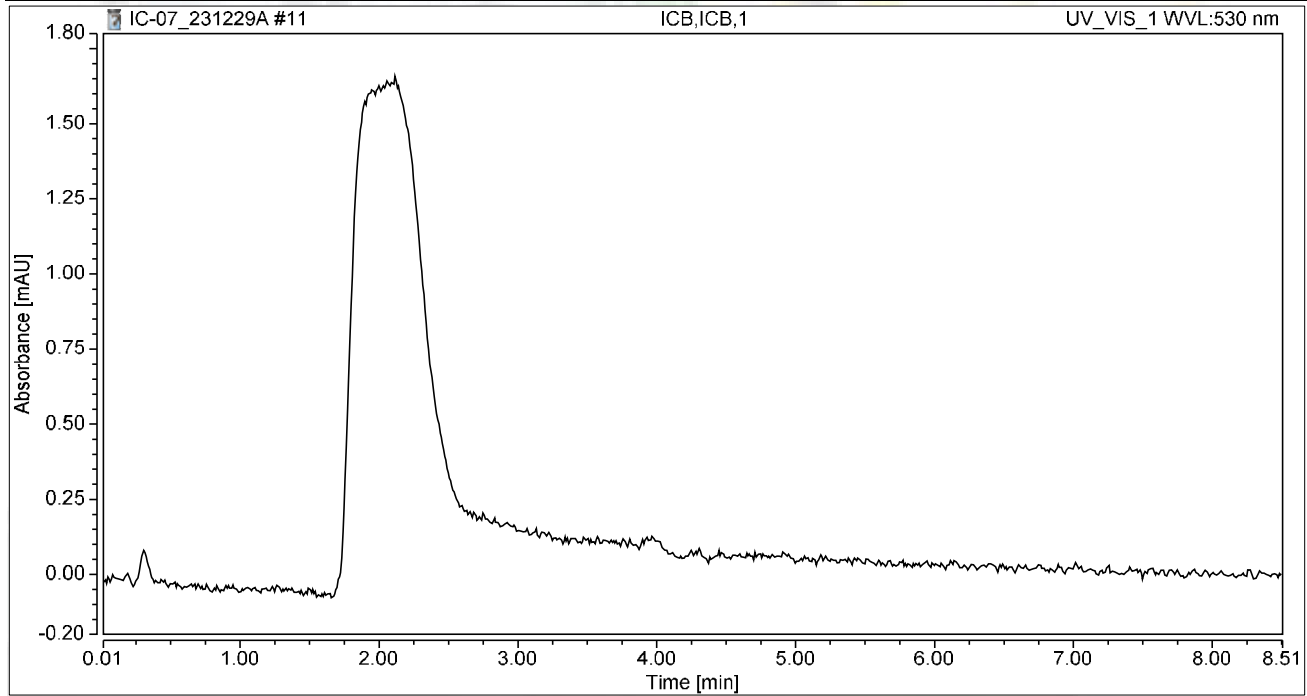
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240117A

Instrument ID: IC-07



Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/17/24 9:23 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/17/24 9:34 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/17/24 9:43 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/17/24 9:53 AM	Reported
13	MB-R180536	MBLK	1	Hexavalent Chromium	01/17/24 10:02 AM	Reported
14	LCS-R180536	LCS	1	Hexavalent Chromium	01/17/24 10:12 AM	Reported
15	N062346-001A	SAMP	5	Hexavalent Chromium	01/17/24 10:33 AM	Reported
16	N062346-001AMS	MS	5	Hexavalent Chromium	01/17/24 10:45 AM	Reported
17	N062346-002A	SAMP	5	Hexavalent Chromium	01/17/24 10:55 AM	Reported
18	N062346-002AMS	MS	5	Hexavalent Chromium	01/17/24 11:04 AM	Reported
19	N062346-003A	SAMP	1	Hexavalent Chromium	01/17/24 11:14 AM	Reported
20	N062346-003AMS	MS	1	Hexavalent Chromium	01/17/24 11:23 AM	Reported
21	N062346-001AMSD	MSD	5	Hexavalent Chromium	01/17/24 11:33 AM	Reported
22	N062346-002ADUP	DUP	5	Hexavalent Chromium	01/17/24 11:42 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/17/24 11:52 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/17/24 12:01 PM	Reported
25	N062208-005A	SAMP	1	Hexavalent Chromium	01/17/24 12:11 PM	Not Reported
26	N062208-005AMS	MS	1	Hexavalent Chromium	01/17/24 12:20 PM	Not Reported
27	N062429-001A	SAMP	1	Hexavalent Chromium	01/17/24 12:29 PM	Not Reported
28	N062429-001AMS	MS	1	Hexavalent Chromium	01/17/24 12:39 PM	Not Reported
29	N062429-002A	SAMP	1	Hexavalent Chromium	01/17/24 12:48 PM	Not Reported
30	N062429-002AMS	MS	1	Hexavalent Chromium	01/17/24 12:58 PM	Not Reported
31	N062429-003A	SAMP	1	Hexavalent Chromium	01/17/24 1:07 PM	Not Reported
32	N062429-003AMS	MS	1	Hexavalent Chromium	01/17/24 1:17 PM	Not Reported
33	N062435-004A	SAMP	20	Hexavalent Chromium	01/17/24 1:26 PM	Reported
34	N062435-005A	SAMP	20	Hexavalent Chromium	01/17/24 1:36 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/17/24 1:45 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/17/24 1:55 PM	Reported
37	N062433-003A	SAMP	1	Hexavalent Chromium	01/17/24 2:04 PM	Reported
38	N062434-001A	SAMP	1	Hexavalent Chromium	01/17/24 2:14 PM	Reported
39	N062434-002A	SAMP	1	Hexavalent Chromium	01/17/24 2:23 PM	Reported
40	N062434-003A	SAMP	1	Hexavalent Chromium	01/17/24 2:32 PM	Not Reported
41	N062434-007A	SAMP	1	Hexavalent Chromium	01/17/24 2:42 PM	Reported
42	N062434-008A	SAMP	1	Hexavalent Chromium	01/17/24 2:51 PM	Reported

Reviewed by:

JRB 1/25/2024

Mecha 2/4/2024
for RBA **103**

INJECTION LOG: 240117A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062435-001A	SAMP	1	Hexavalent Chromium	01/17/24 3:01 PM	Reported
44	N062435-002A	SAMP	1	Hexavalent Chromium	01/17/24 3:10 PM	Reported
45	N062435-003A	SAMP	1	Hexavalent Chromium	01/17/24 3:20 PM	Reported
46	N062435-006A	SAMP	1	Hexavalent Chromium	01/17/24 3:46 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/17/24 3:57 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/17/24 4:07 PM	Reported
49	N062433-001A	SAMP	1	Hexavalent Chromium	01/17/24 4:16 PM	Reported
50	N062433-002A	SAMP	1	Hexavalent Chromium	01/17/24 4:25 PM	Reported
51	N062429-003AMS	MS	1	Hexavalent Chromium	01/17/24 4:35 PM	Not Reported
52	MB-R180537	MBLK	1	Hexavalent Chromium	01/17/24 4:44 PM	Reported
53	LCS-R180537	LCS	1	Hexavalent Chromium	01/17/24 4:54 PM	Reported
54	N062436-002A	SAMP	1	Hexavalent Chromium	01/17/24 5:03 PM	Reported
55	N062435-016A	SAMP	1	Hexavalent Chromium	01/17/24 5:13 PM	Reported
56	N062436-002AMS	MS	1	Hexavalent Chromium	01/17/24 5:22 PM	Reported
57	N062436-002AMSD	MSD	1	Hexavalent Chromium	01/17/24 5:32 PM	Reported
58	N062435-016AMS	MS	1	Hexavalent Chromium	01/17/24 5:41 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/17/24 5:53 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/17/24 6:03 PM	Reported
61	N062435-016ADUP	DUP	1	Hexavalent Chromium	01/17/24 6:12 PM	Reported
62	N062435-007A	SAMP	1	Hexavalent Chromium	01/17/24 6:22 PM	Reported
63	N062435-008A	SAMP	1	Hexavalent Chromium	01/17/24 6:31 PM	Reported
64	N062435-009A	SAMP	1	Hexavalent Chromium	01/17/24 6:41 PM	Reported
65	N062435-010A	SAMP	1	Hexavalent Chromium	01/17/24 6:50 PM	Reported
66	N062435-011A	SAMP	1	Hexavalent Chromium	01/17/24 7:00 PM	Not Reported
67	N062435-012A	SAMP	1	Hexavalent Chromium	01/17/24 7:09 PM	Reported
68	N062435-013A	SAMP	1	Hexavalent Chromium	01/17/24 7:19 PM	Reported
69	N062435-014A	SAMP	1	Hexavalent Chromium	01/17/24 7:28 PM	Reported
70	N062435-015A	SAMP	1	Hexavalent Chromium	01/17/24 7:38 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/17/24 7:47 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/17/24 7:56 PM	Reported
73	N062436-001A	SAMP	1	Hexavalent Chromium	01/17/24 8:06 PM	Reported
74	N062436-003A	SAMP	1	Hexavalent Chromium	01/17/24 8:15 PM	Reported
75	N062436-004A	SAMP	1	Hexavalent Chromium	01/17/24 8:25 PM	Reported
76	N062436-005A	SAMP	1	Hexavalent Chromium	01/17/24 8:34 PM	Not Reported
77	N062436-006A	SAMP	1	Hexavalent Chromium	01/17/24 8:44 PM	Reported
78	N062436-007A	SAMP	1	Hexavalent Chromium	01/17/24 8:53 PM	Reported
79	N062436-008A	SAMP	1	Hexavalent Chromium	01/17/24 9:03 PM	Reported
80	N062436-009A	SAMP	1	Hexavalent Chromium	01/17/24 9:12 PM	Reported
81	N062436-0010A	SAMP	1	Hexavalent Chromium	01/17/24 9:21 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	01/17/24 9:31 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	01/17/24 9:40 PM	Reported
84	BLANK	BLANK	1	Hexavalent Chromium	01/17/24 9:50 PM	Not Reported



Injection Log Summary

Sequence Details

Name:	IC-07_240117A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	17/Jan/24 22:20:35
No. of Injections:	87	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/17/2024 09:23	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/17/2024 09:34	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/17/2024 09:43	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/17/2024 09:53	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/17/2024 10:02	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/17/2024 10:12	Finished	LCS @5ppb, IWST-231228B
15	N062346-001A,SAMF	1	1000	Unknown		01/17/2024 10:33	Finished	SAMP,>10 mL
16	N062346-001AMS,MS	2	1000	Unknown		01/17/2024 10:45	Finished	MS (5ppb), IWST-231228B,2>
17	N062346-002A,SAMF	3	1000	Unknown		01/17/2024 10:55	Finished	SAMP,>10 mL
18	N062346-002AMS,MS	4	1000	Unknown		01/17/2024 11:04	Finished	MS (5ppb), IWST-231228B,2>
19	N062346-003A,SAMF	5	1000	Unknown		01/17/2024 11:14	Finished	SAMP,10 mL
20	N062346-003AMS,MS	6	1000	Unknown		01/17/2024 11:23	Finished	MS (1ppb), IWST-231228B,10r
21	N062346-001AMSD,MS	7	1000	Unknown		01/17/2024 11:33	Finished	MSD (5ppb), IWST-231228B,2>
22	N062346-002ADUP,D	8	1000	Unknown		01/17/2024 11:42	Finished	DUP,>10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/17/2024 11:52	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/17/2024 12:01	Finished	CCB R231030A
25	N062208-005A,SAMF	11	1000	Unknown		01/17/2024 12:11	Finished	SAMP,10 mL
26	N062208-005AMS,MS	12	1000	Unknown		01/17/2024 12:20	Finished	MS (1ppb), IWST-231228B,10r
27	N062429-001A,SAMF	13	1000	Unknown		01/17/2024 12:29	Finished	SAMP,10 mL
28	N062429-001AMS,MS	14	1000	Unknown		01/17/2024 12:39	Finished	MS (1ppb), IWST-231228B,10r
29	N062429-002A,SAMF	15	1000	Unknown		01/17/2024 12:48	Finished	SAMP,10 mL
30	N062429-002AMS,MS	16	1000	Unknown		01/17/2024 12:58	Finished	MS (1ppb), IWST-231228B,10r
31	N062429-003A,SAMF	17	1000	Unknown		01/17/2024 13:07	Finished	SAMP,10 mL
32	N062429-003AMS,MS	18	1000	Unknown		01/17/2024 13:17	Finished	MS (1ppb), IWST-231228B,10r
33	N062435-004A,SAMF	19	1000	Unknown		01/17/2024 13:26	Finished	SAMP,0.5>10 mL
34	N062435-005A,SAMF	20	1000	Unknown		01/17/2024 13:36	Finished	SAMP,0.5>10 mL
35	CCV-3,CCV,1,	21	1000	Unknown		01/17/2024 13:45	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		01/17/2024 13:55	Finished	CCB R231227C
37	N062433-003A,SAMF	23	1000	Unknown		01/17/2024 14:04	Finished	SAMP,10 mL
38	N062434-001A,SAMF	24	1000	Unknown		01/17/2024 14:14	Finished	SAMP,10 mL
39	N062434-002A,SAMF	25	1000	Unknown		01/17/2024 14:23	Finished	SAMP,10 mL
40	N062434-003A,SAMF	26	1000	Unknown		01/17/2024 14:32	Finished	SAMP,10 mL
41	N062434-007A,SAMF	27	1000	Unknown		01/17/2024 14:42	Finished	SAMP,10 mL
42	N062434-008A,SAMF	28	1000	Unknown		01/17/2024 14:51	Finished	SAMP,10 mL
43	N062435-001A,SAMF	29	1000	Unknown		01/17/2024 15:01	Finished	SAMP,10 mL
44	N062435-002A,SAMF	30	1000	Unknown		01/17/2024 15:10	Finished	SAMP,10 mL
45	N062435-003A,SAMF	31	1000	Unknown		01/17/2024 15:20	Finished	SAMP,10 mL
46	N062435-006A,SAMF	1	1000	Unknown		01/17/2024 15:46	Finished	SAMP,10 mL
47	CCV-4,CCV1,1,	2	1000	Unknown		01/17/2024 15:57	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	3	1000	Unknown		01/17/2024 16:07	Finished	CCB R231030A
49	N062433-001A,SAMF	4	1000	Unknown		01/17/2024 16:16	Finished	SAMP,10 mL
50	N062433-002A,SAMF	5	1000	Unknown		01/17/2024 16:25	Finished	SAMP,10 mL
51	N062429-003AMS,MS	6	1000	Unknown		01/17/2024 16:35	Finished	MS (1ppb), IWST-231228B,10r
52	MB-2,MBLK,1,	7	1000	Unknown		01/17/2024 16:44	Finished	MB R231227C
53	LCS-2,LCS,1,	8	1000	Unknown		01/17/2024 16:54	Finished	LCS @5ppb, IWST-231228B
54	N062436-002A,SAMF	9	1000	Unknown		01/17/2024 17:03	Finished	SAMP,10 mL
55	N062435-016A,SAMF	10	1000	Unknown		01/17/2024 17:13	Finished	SAMP,10 mL
56	N062436-002AMS,MS	11	1000	Unknown		01/17/2024 17:22	Finished	MS (1ppb), IWST-231228B,10r
57	N062436-002AMSD,MS	12	1000	Unknown		01/17/2024 17:32	Finished	MSD (1ppb), IWST-231228B,10r
58	N062435-016AMS,MS	13	1000	Unknown		01/17/2024 17:41	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	14	1000	Unknown		01/17/2024 17:53	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	15	1000	Unknown		01/17/2024 18:03	Finished	CCB R231227C

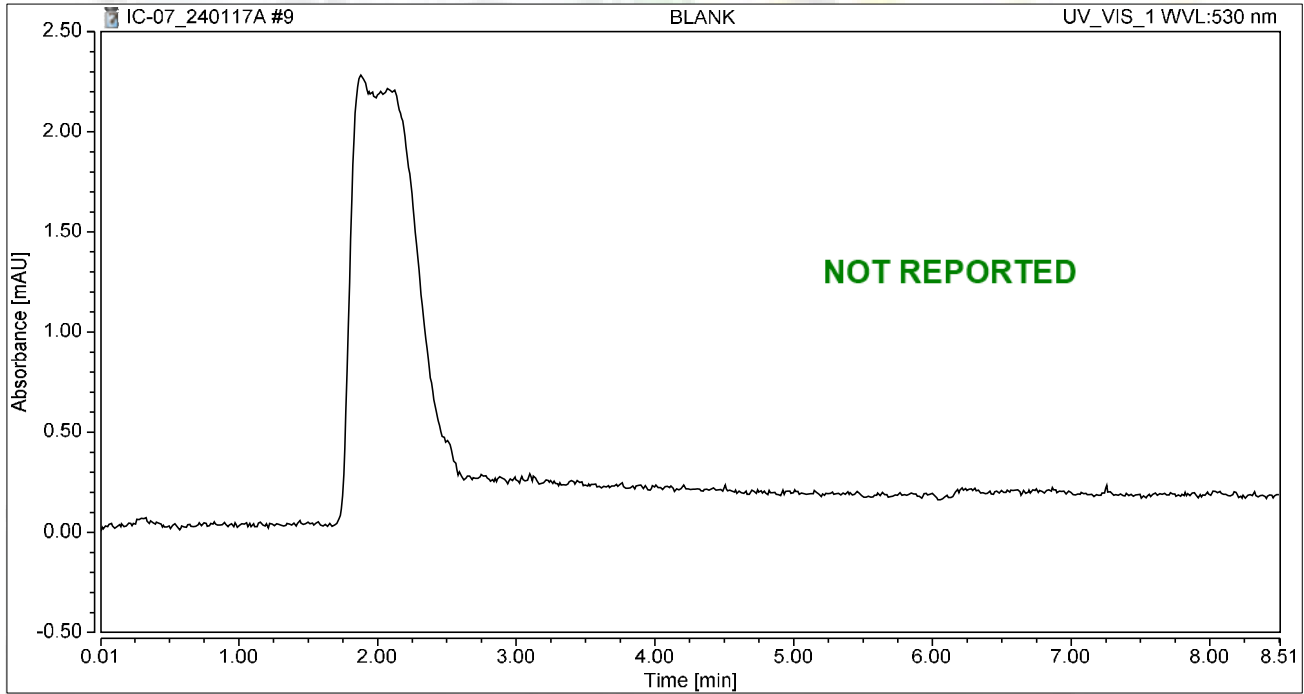
61	N062435-016ADUP.D	16	1000	Unknown	01/17/2024 18:12	Finished	DUP,10 mL
62	N062435-007A,SAMF	17	1000	Unknown	01/17/2024 18:22	Finished	SAMP,10 mL
63	N062435-008A,SAMF	18	1000	Unknown	01/17/2024 18:31	Finished	SAMP,10 mL
64	N062435-009A,SAMF	19	1000	Unknown	01/17/2024 18:41	Finished	SAMP,10 mL
65	N062435-010A,SAMF	20	1000	Unknown	01/17/2024 18:50	Finished	SAMP,10 mL
66	N062435-011A,SAMF	21	1000	Unknown	01/17/2024 19:00	Finished	SAMP,10 mL
67	N062435-012A,SAMF	22	1000	Unknown	01/17/2024 19:09	Finished	SAMP,10 mL
68	N062435-013A,SAMF	23	1000	Unknown	01/17/2024 19:19	Finished	SAMP,10 mL
69	N062435-014A,SAMF	24	1000	Unknown	01/17/2024 19:28	Finished	SAMP,10 mL
70	N062435-015A,SAMF	25	1000	Unknown	01/17/2024 19:38	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	26	1000	Unknown	01/17/2024 19:47	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	27	1000	Unknown	01/17/2024 19:56	Finished	CCB R231227C
73	N062436-001A,SAMF	28	1000	Unknown	01/17/2024 20:06	Finished	SAMP,10 mL
74	N062436-003A,SAMF	29	1000	Unknown	01/17/2024 20:15	Finished	SAMP,10 mL
75	N062436-004A,SAMF	30	1000	Unknown	01/17/2024 20:25	Finished	SAMP,10 mL
76	N062436-005A,SAMF	31	1000	Unknown	01/17/2024 20:34	Finished	SAMP,10 mL
77	N062436-006A,SAMF	32	1000	Unknown	01/17/2024 20:44	Finished	SAMP,10 mL
78	N062436-007A,SAMF	33	1000	Unknown	01/17/2024 20:53	Finished	SAMP,10 mL
79	N062436-008A,SAMF	34	1000	Unknown	01/17/2024 21:03	Finished	SAMP,10 mL
80	N062436-009A,SAMF	35	1000	Unknown	01/17/2024 21:12	Finished	SAMP,10 mL
81	N062436-0010A,SAMF	36	1000	Unknown	01/17/2024 21:21	Finished	SAMP,10 mL
82	CCV-7,CCV,1,	37	1000	Unknown	01/17/2024 21:31	Finished	CCV @5ppb, IWST-231228A
83	CCB-7,CCB,1,	38	1000	Unknown	01/17/2024 21:40	Finished	CCB R231227C
84	BLANK	39	1000	Unknown	01/17/2024 21:50	Finished	BLANK
85	SHUTDOWN	40	1000	Unknown	01/17/2024 21:59	Finished	
86	Eluent: R240114A	41	1000	Unknown	n.a.	Finished	
87	PCR: R240114B	42	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 09:23	Sample Weight:	1.0000

Chromatogram



Integration Results

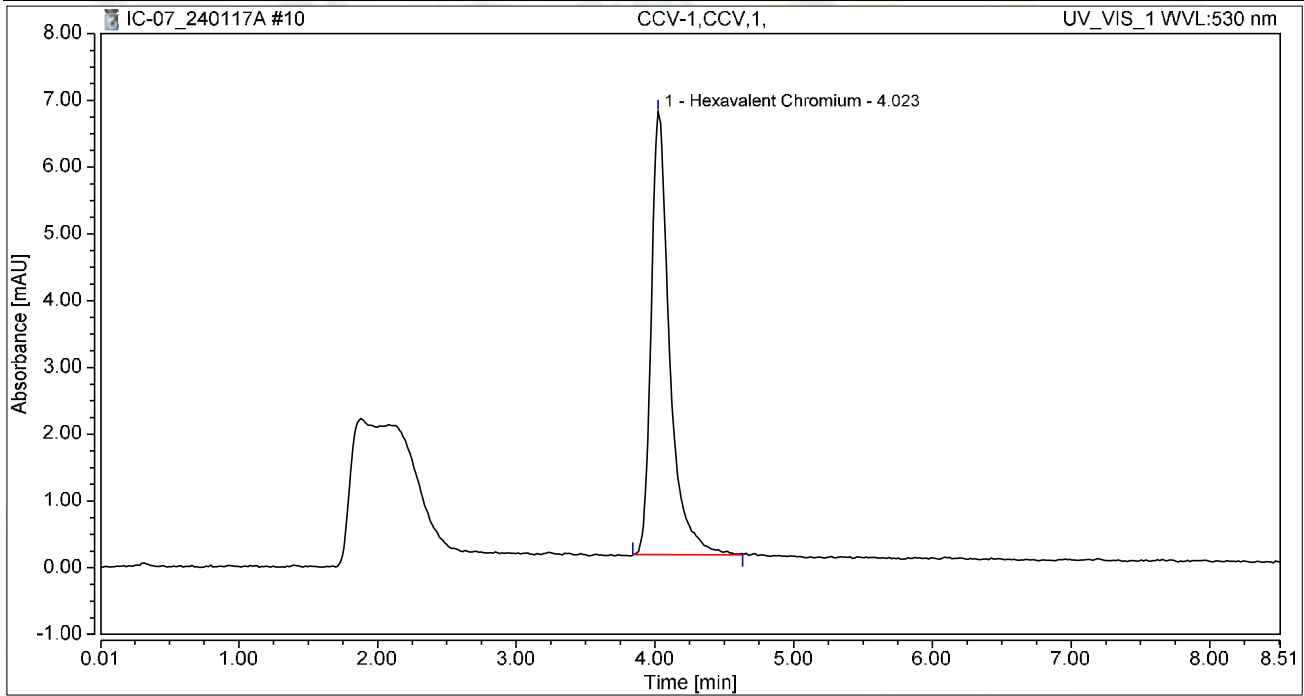
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 09:34	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.023	6.630	100.00	100.00	4.9164
Total:			1.023	6.630	100.00	100.00	

Reviewed by:

JRB

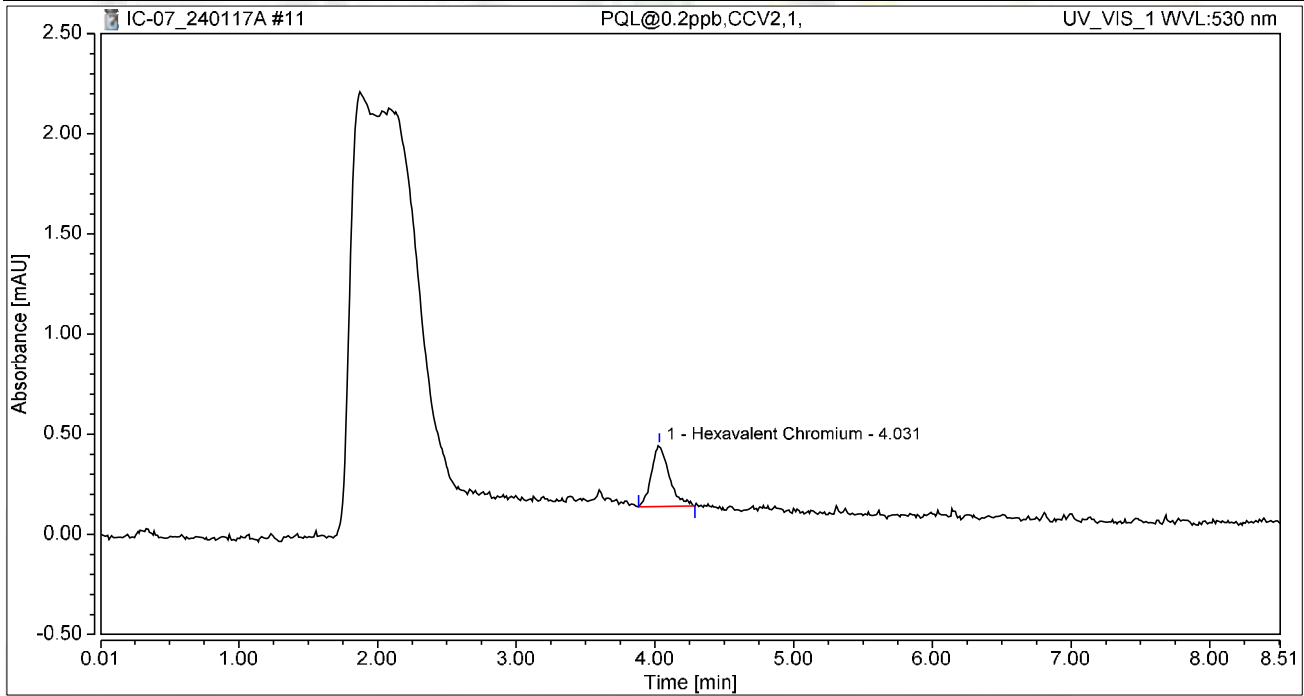
1/25/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

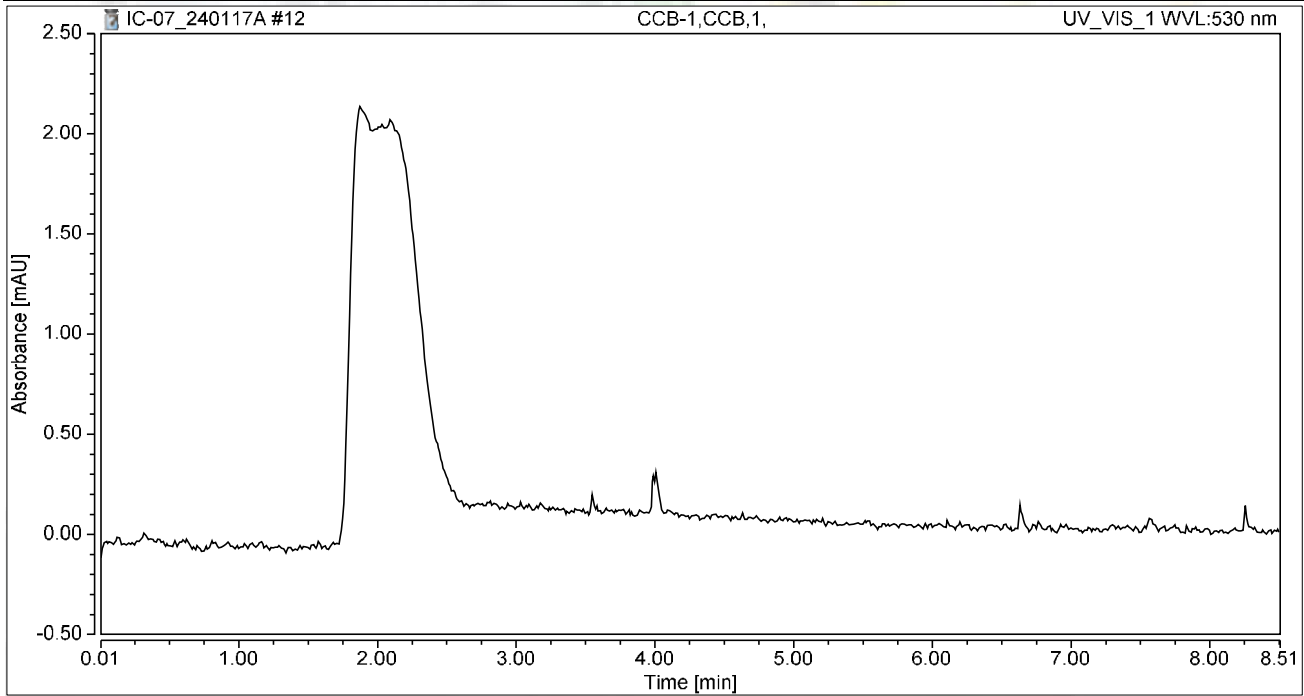
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.045	0.305	100.00	100.00	0.2178
Total:			0.045	0.305	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 09:53	Sample Weight:	1.0000

Chromatogram



Integration Results

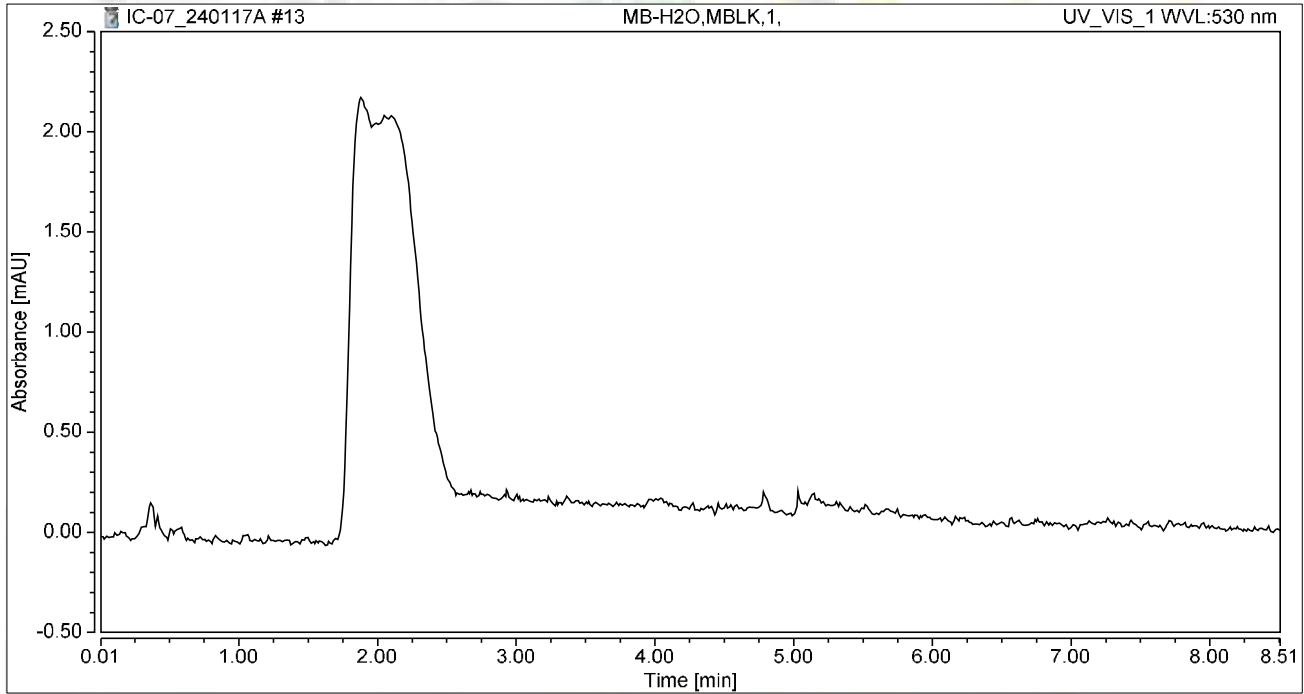
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

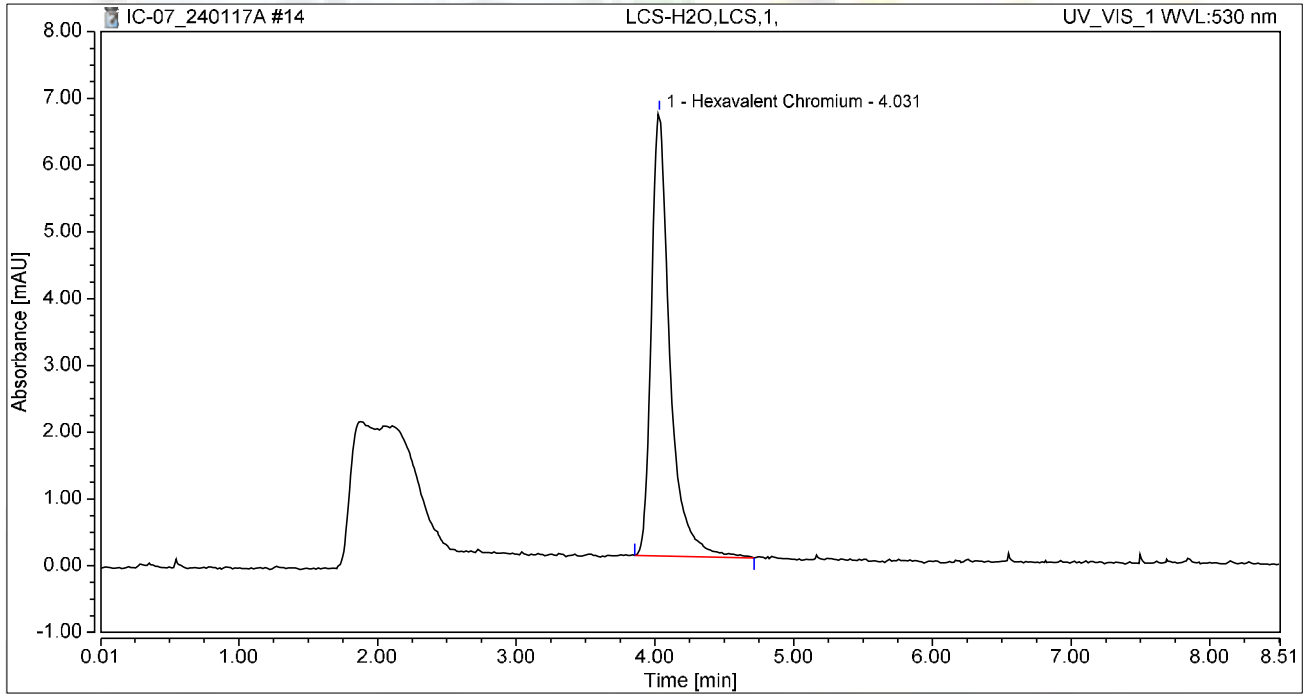
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 10:12	Sample Weight:	1.0000

Chromatogram



Integration Results

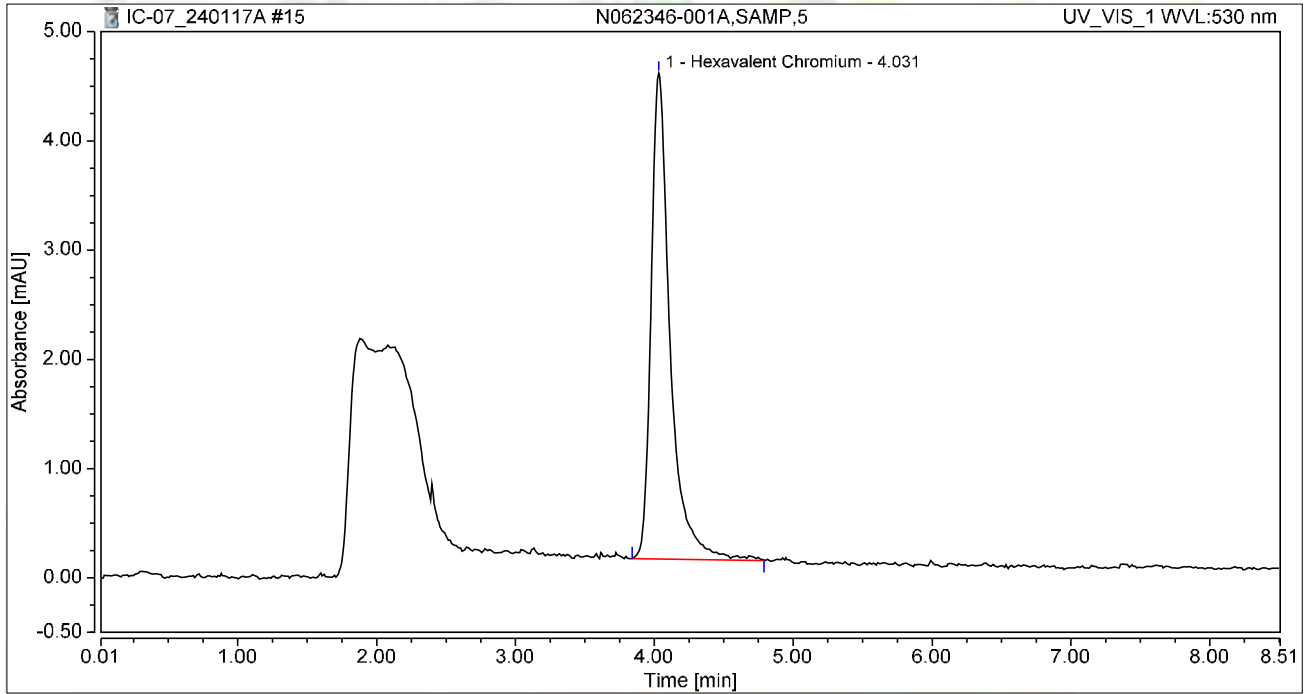
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.028	6.639	100.00	100.00	4.9400
Total:			1.028	6.639	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 10:33	Sample Weight:	1.0000

Chromatogram



Integration Results

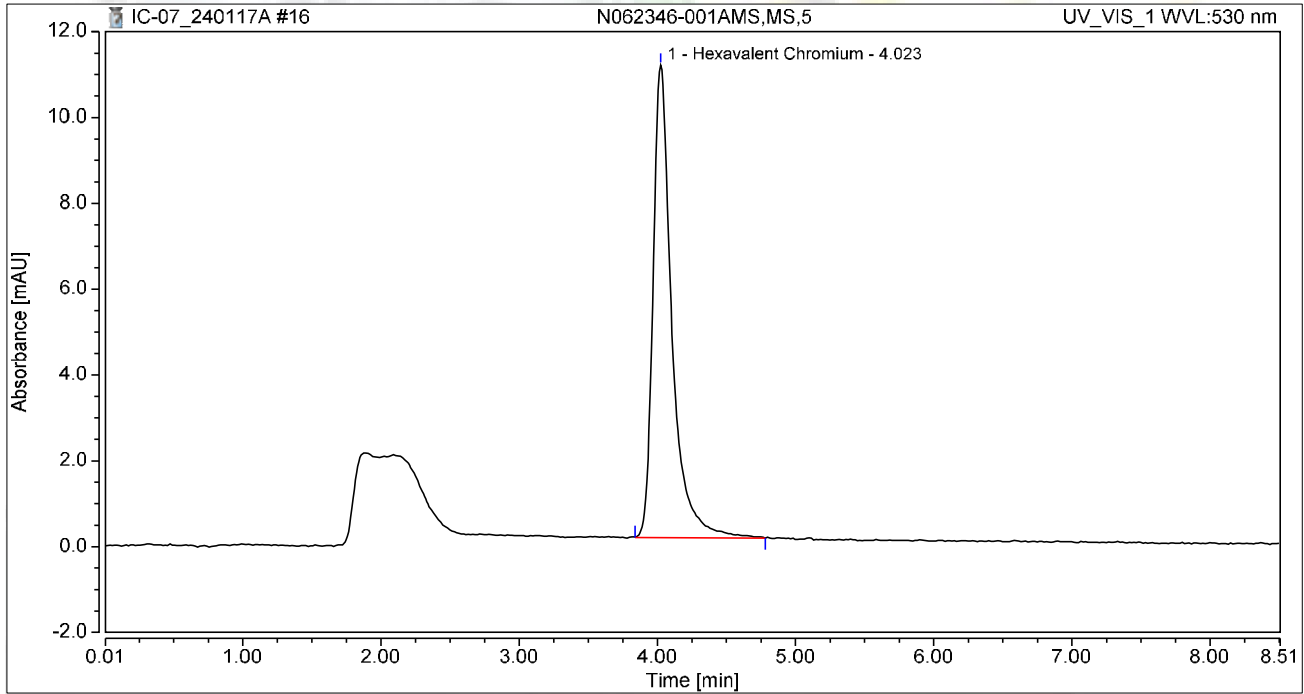
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.711	4.449	100.00	100.00	3.4154
Total:			0.711	4.449	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 10:45	Sample Weight:	1.0000

Chromatogram



Integration Results

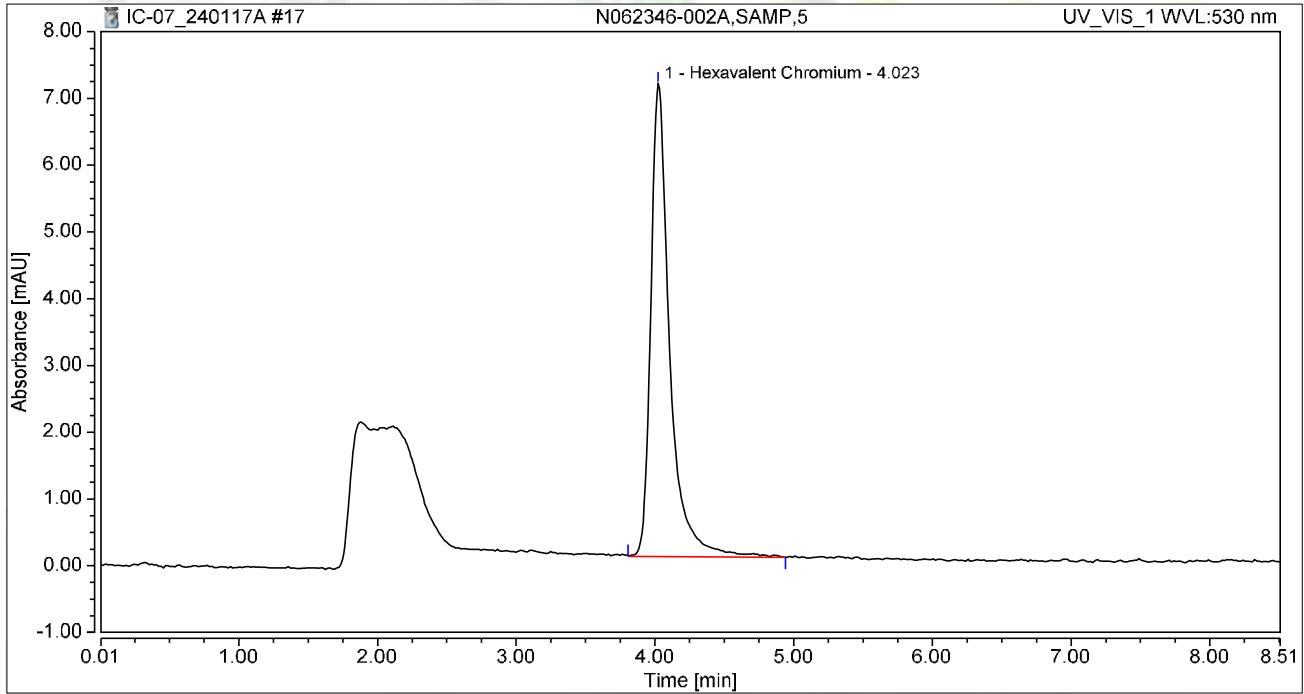
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.741	11.013	100.00	100.00	8.3675
Total:			1.741	11.013	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 10:55	Sample Weight:	1.0000

Chromatogram



Integration Results

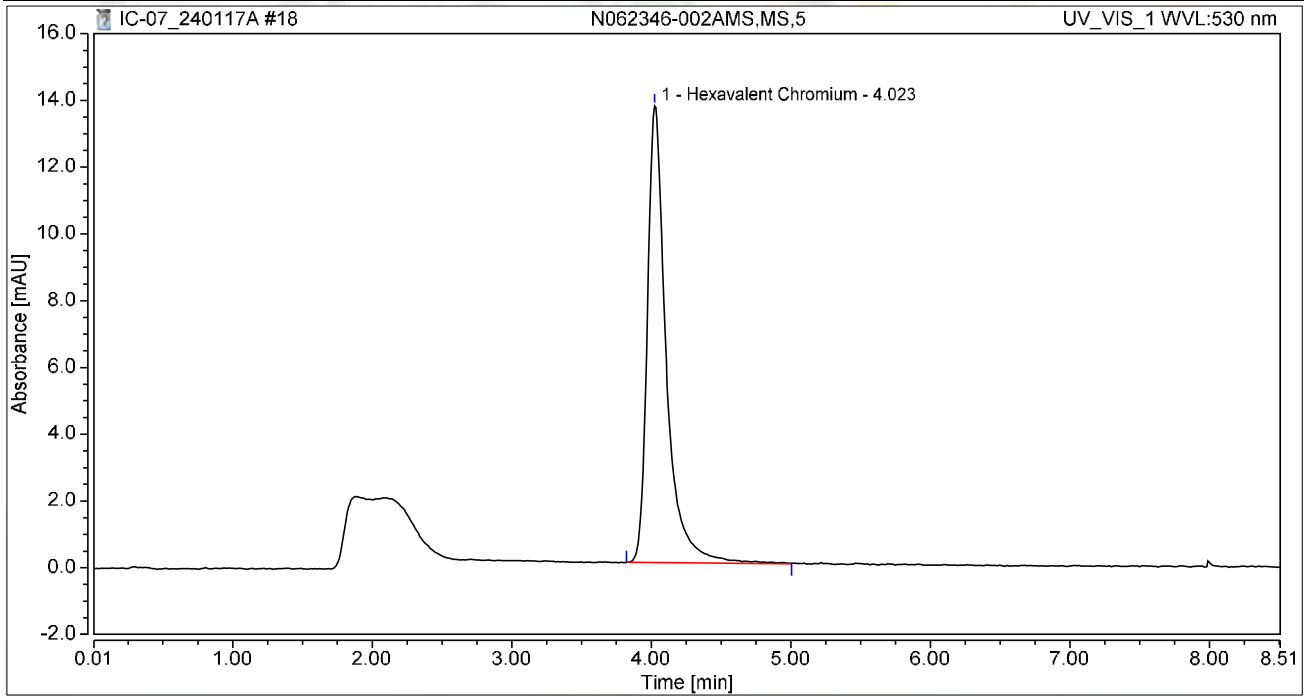
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.117	7.079	100.00	100.00	5.3660
Total:			1.117	7.079	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:04	Sample Weight:	1.0000

Chromatogram



Integration Results

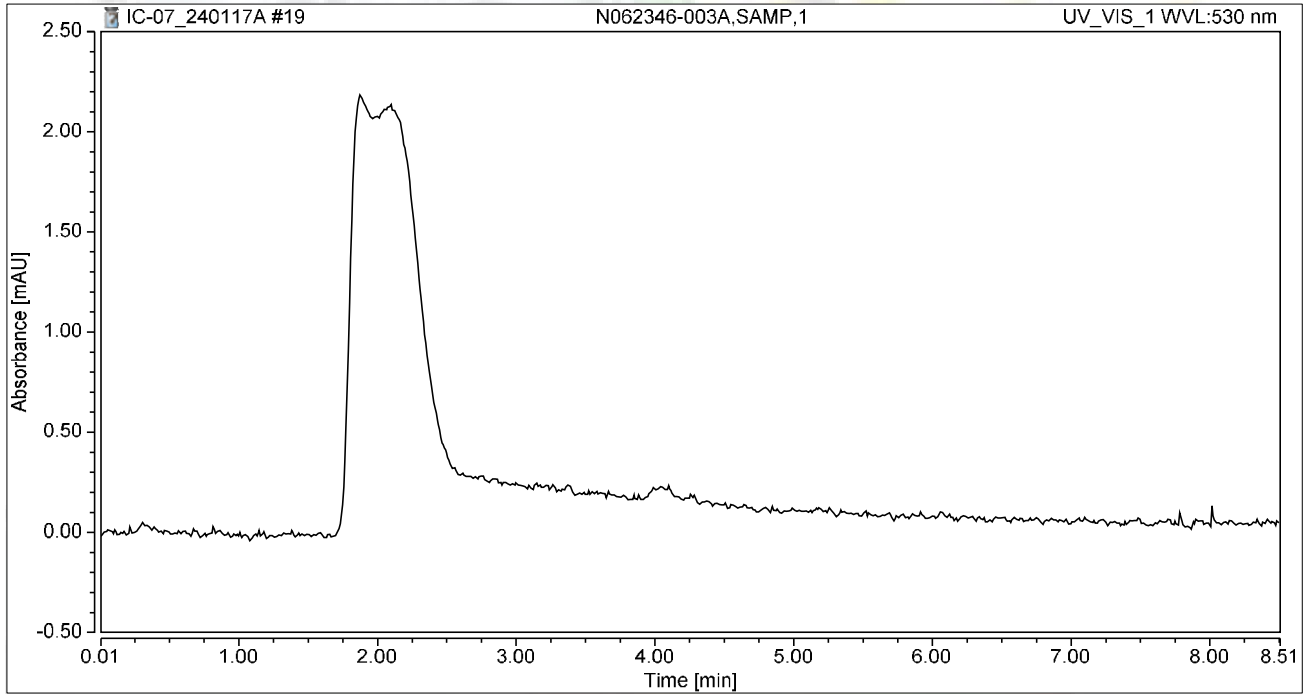
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.146	13.682	100.00	100.00	10.3118
Total:			2.146	13.682	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:14	Sample Weight:	1.0000

Chromatogram



Integration Results

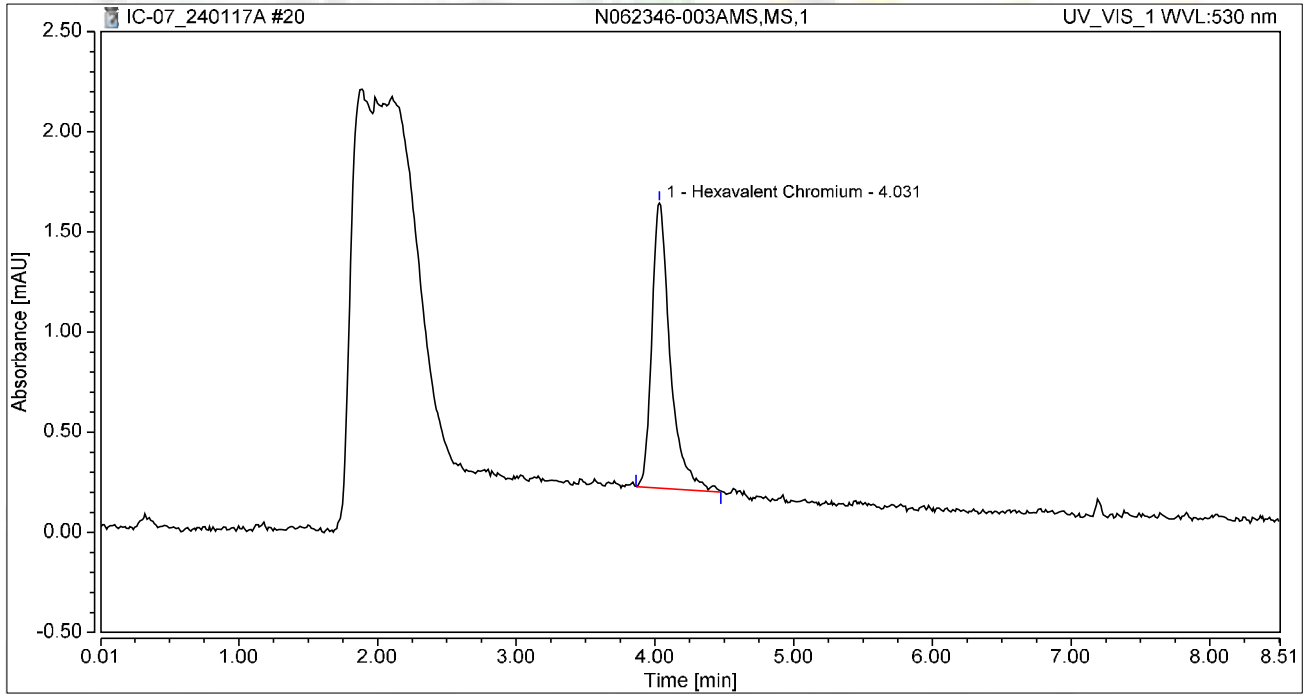
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:23	Sample Weight:	1.0000

Chromatogram



Integration Results

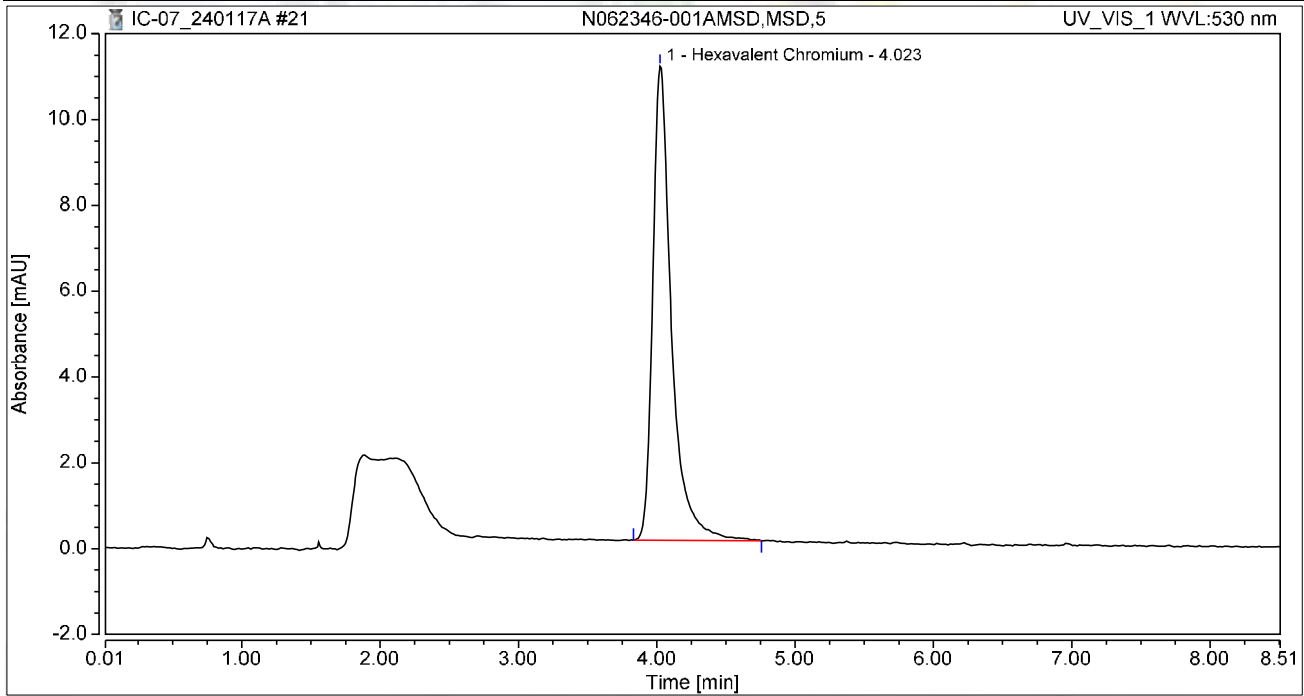
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.218	1.423	100.00	100.00	1.0457
Total:			0.218	1.423	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-001AMSD,MSD,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

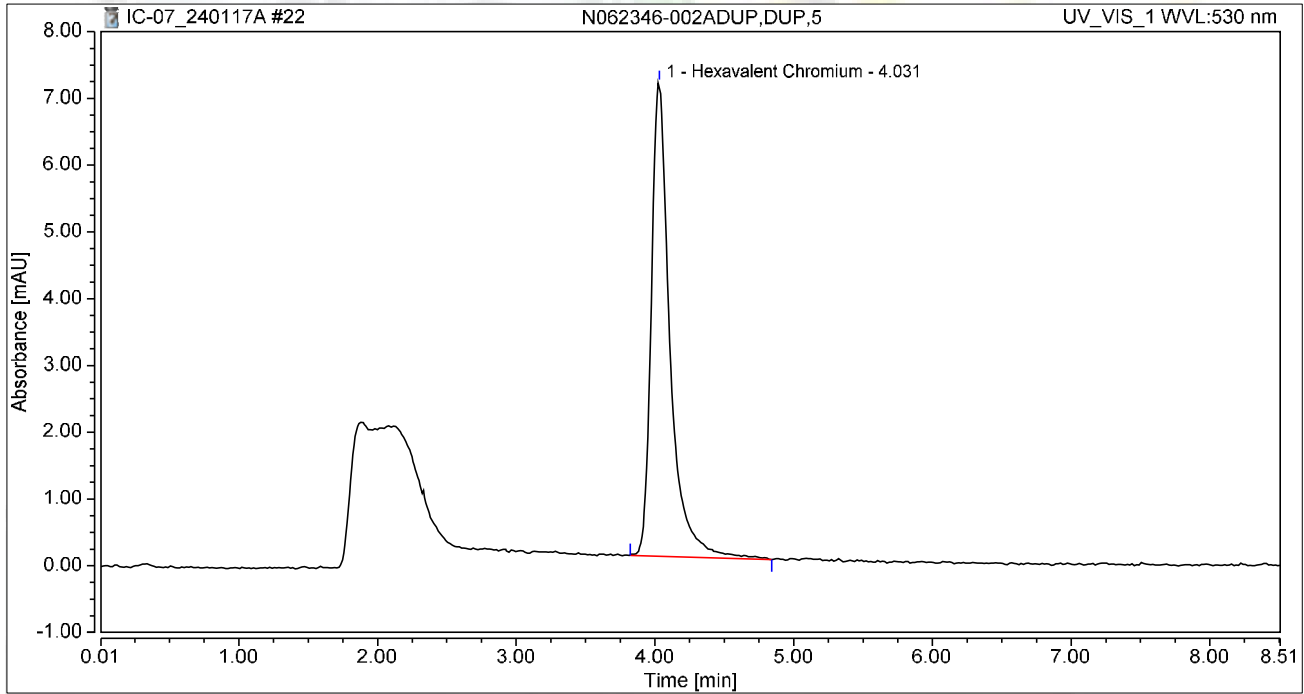
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.736	11.045	100.00	100.00	8.3413
Total:			1.736	11.045	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062346-002ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:42	Sample Weight:	1.0000

Chromatogram



Integration Results

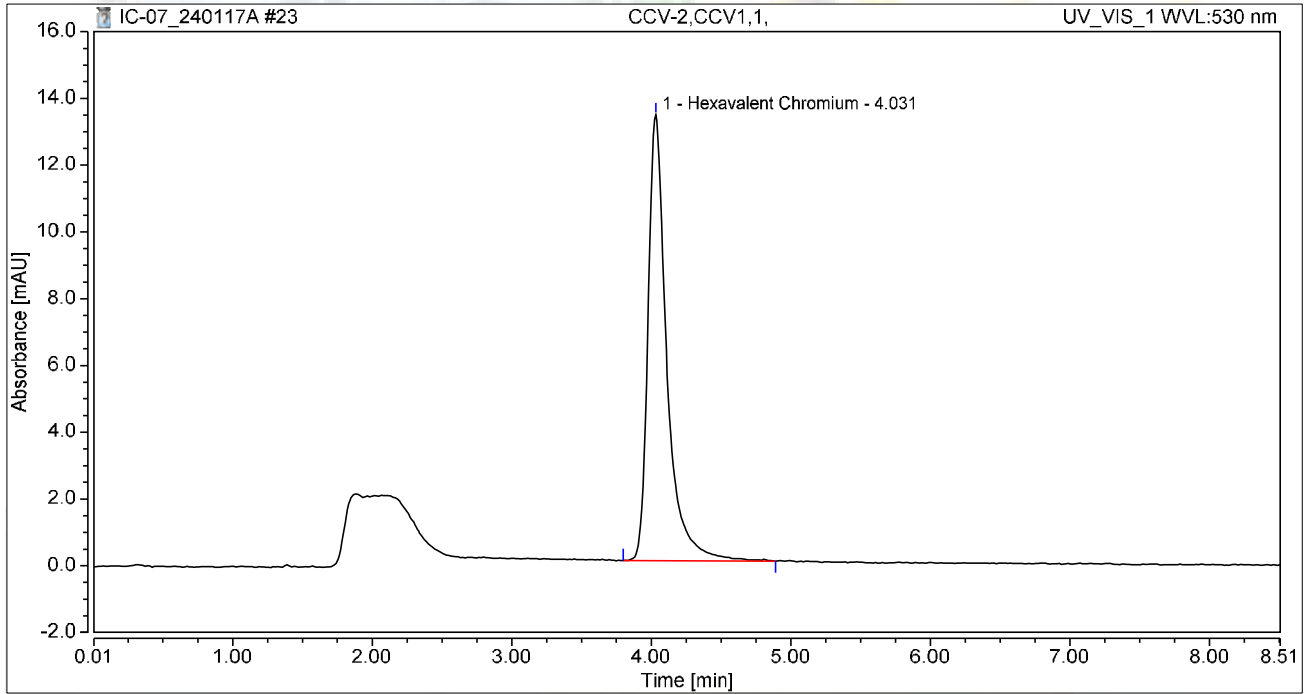
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.112	7.097	100.00	100.00	5.3458
Total:			1.112	7.097	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

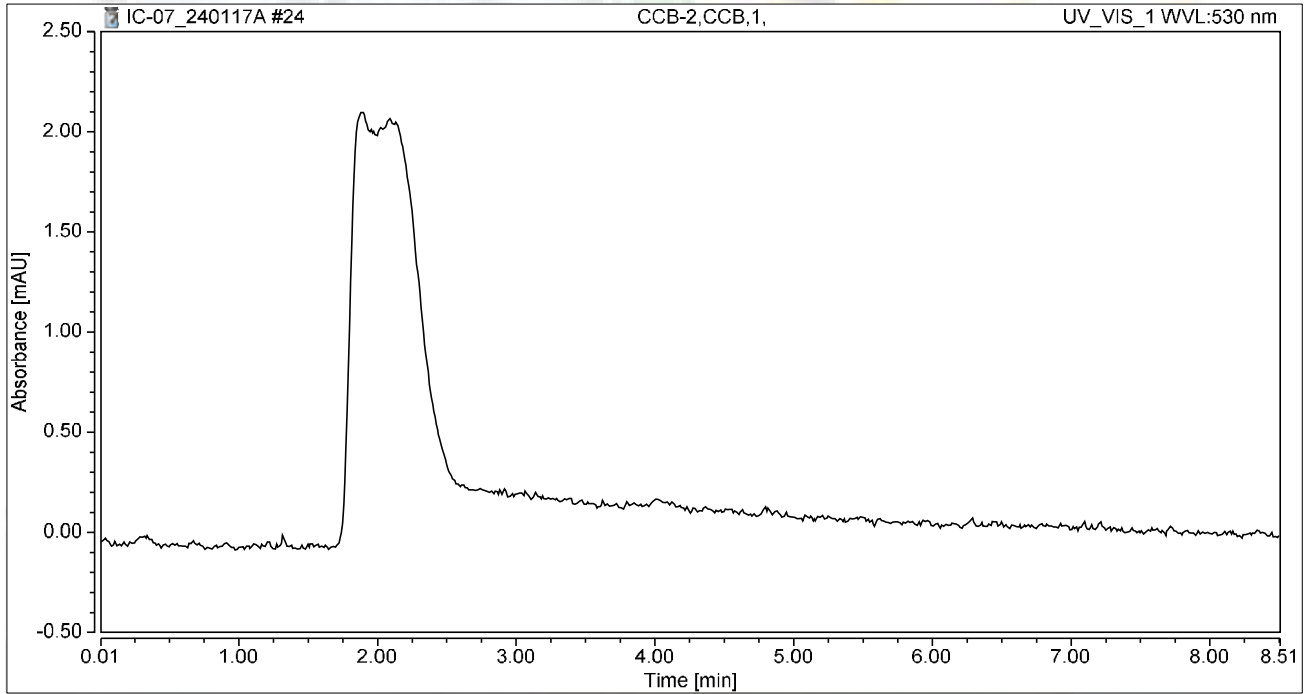
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.088	13.358	100.00	100.00	10.0361
Total:			2.088	13.358	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:01	Sample Weight:	1.0000

Chromatogram



Integration Results

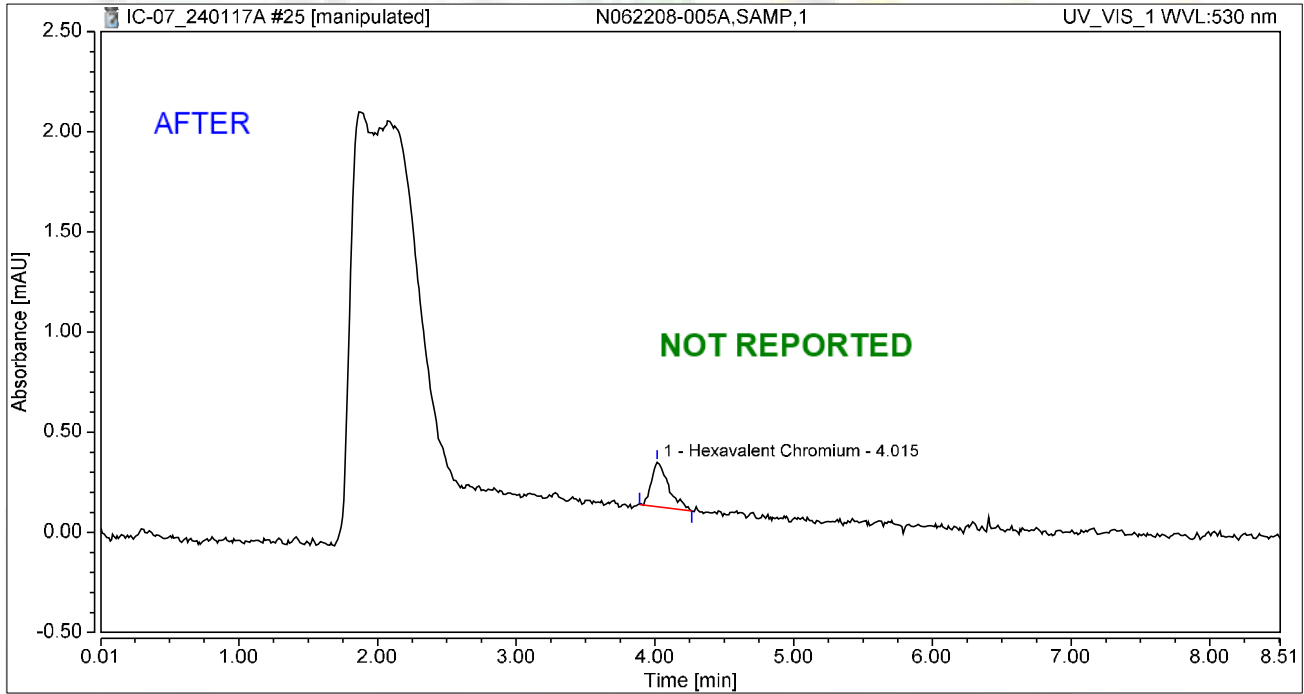
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062208-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:11	Sample Weight:	1.0000

Chromatogram



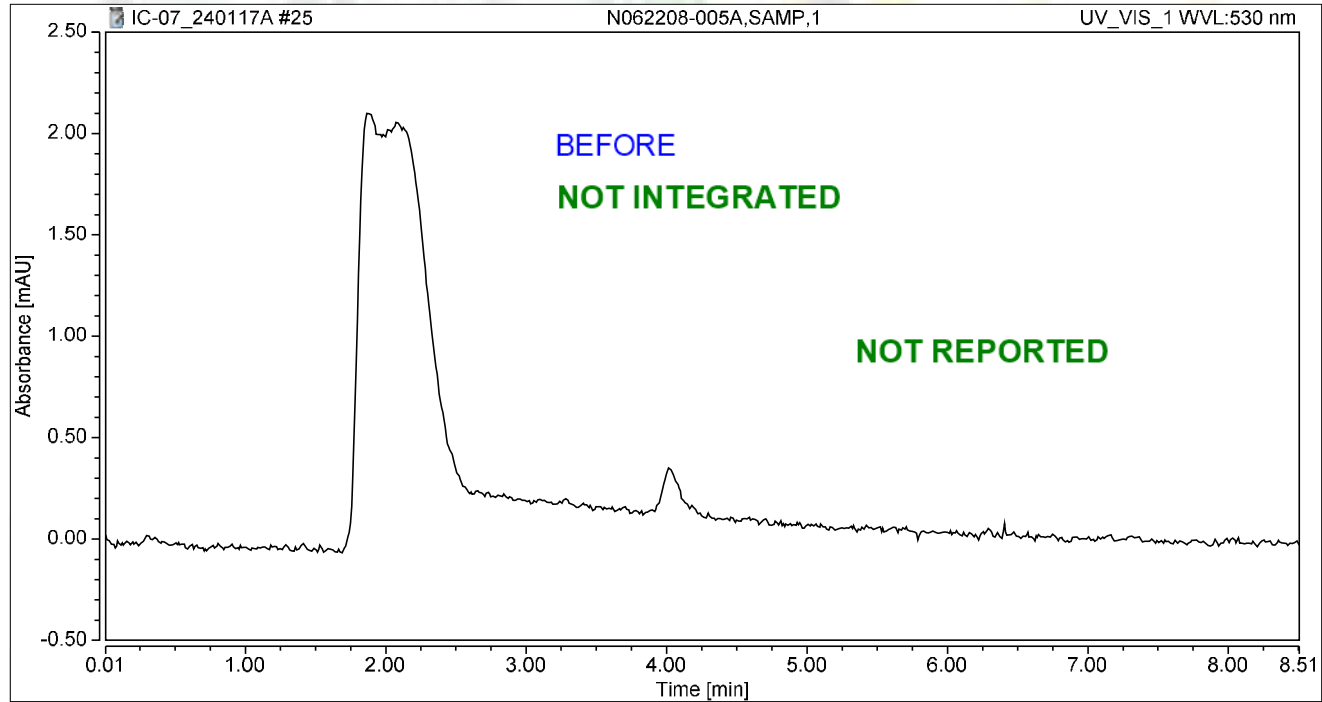
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.032	0.223	100.00	100.00	0.1557
Total:			0.032	0.223	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062208-005A,SAMP,1	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	17/Jan/24 12:11	Sample Weight: 1.0000

Chromatogram



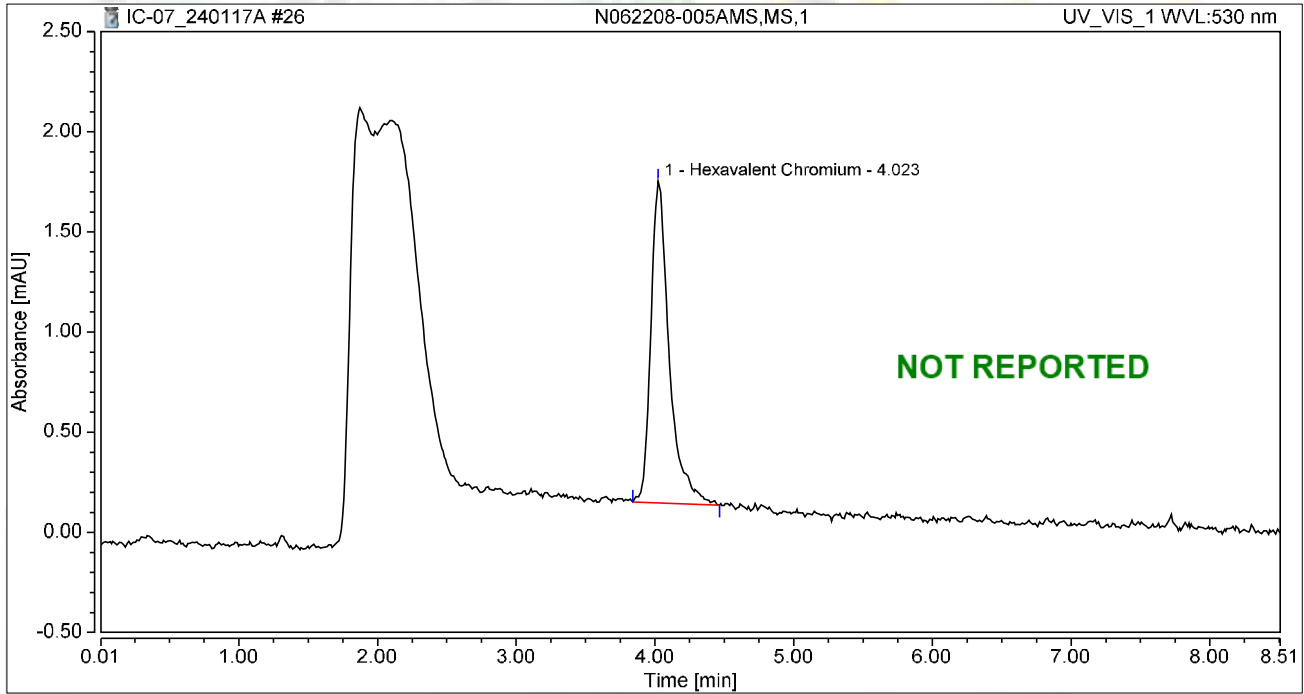
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062208-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:20	Sample Weight:	1.0000

Chromatogram



Integration Results

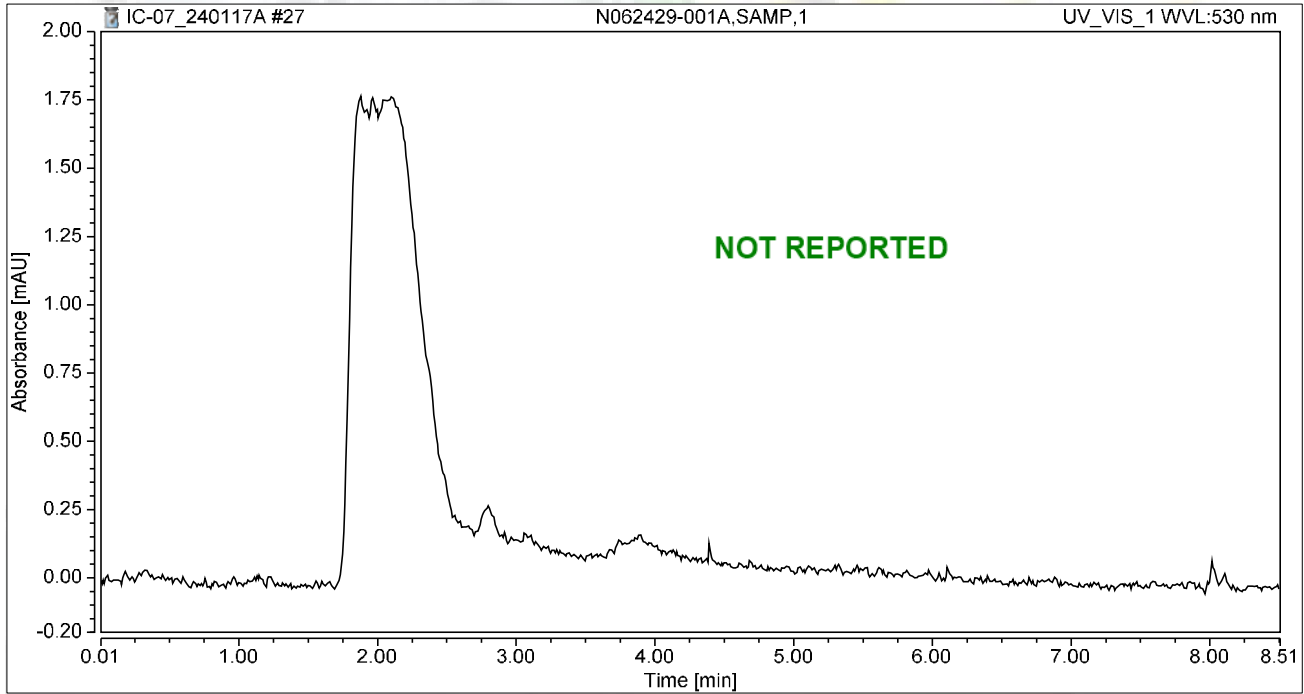
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.247	1.607	100.00	100.00	1.1876
Total:			0.247	1.607	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:29	Sample Weight:	1.0000

Chromatogram



Integration Results

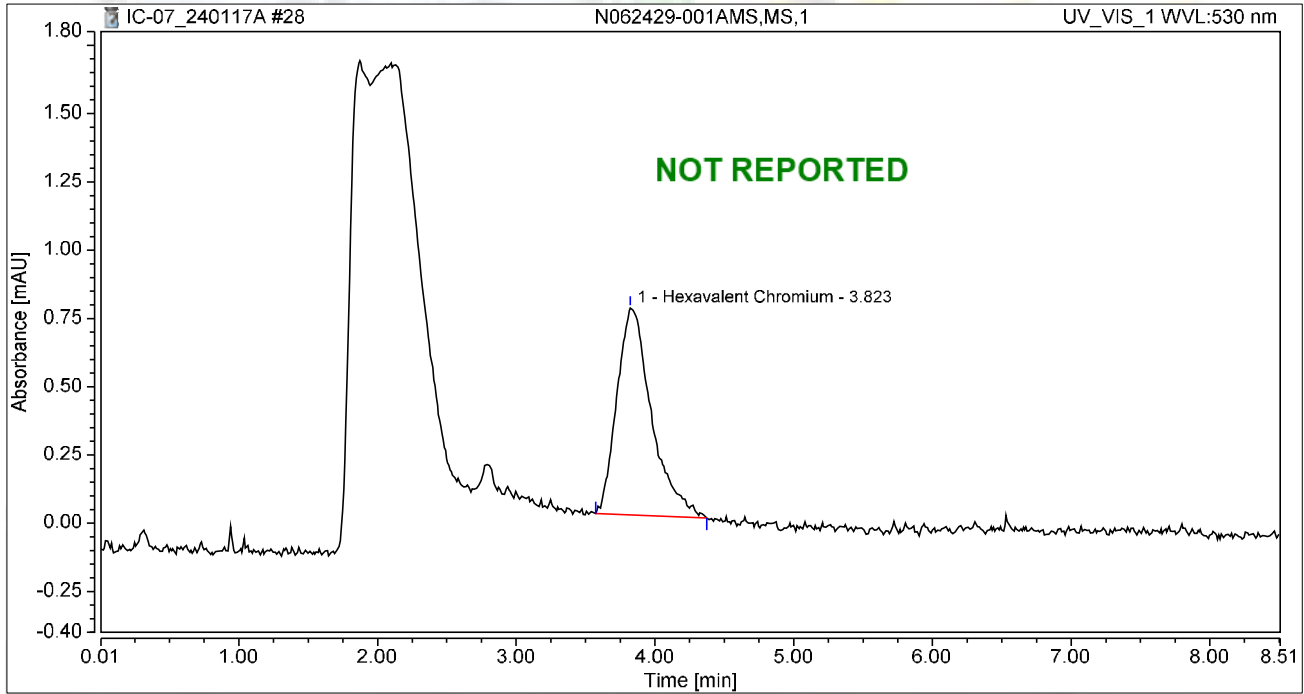
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:39	Sample Weight:	1.0000

Chromatogram



Integration Results

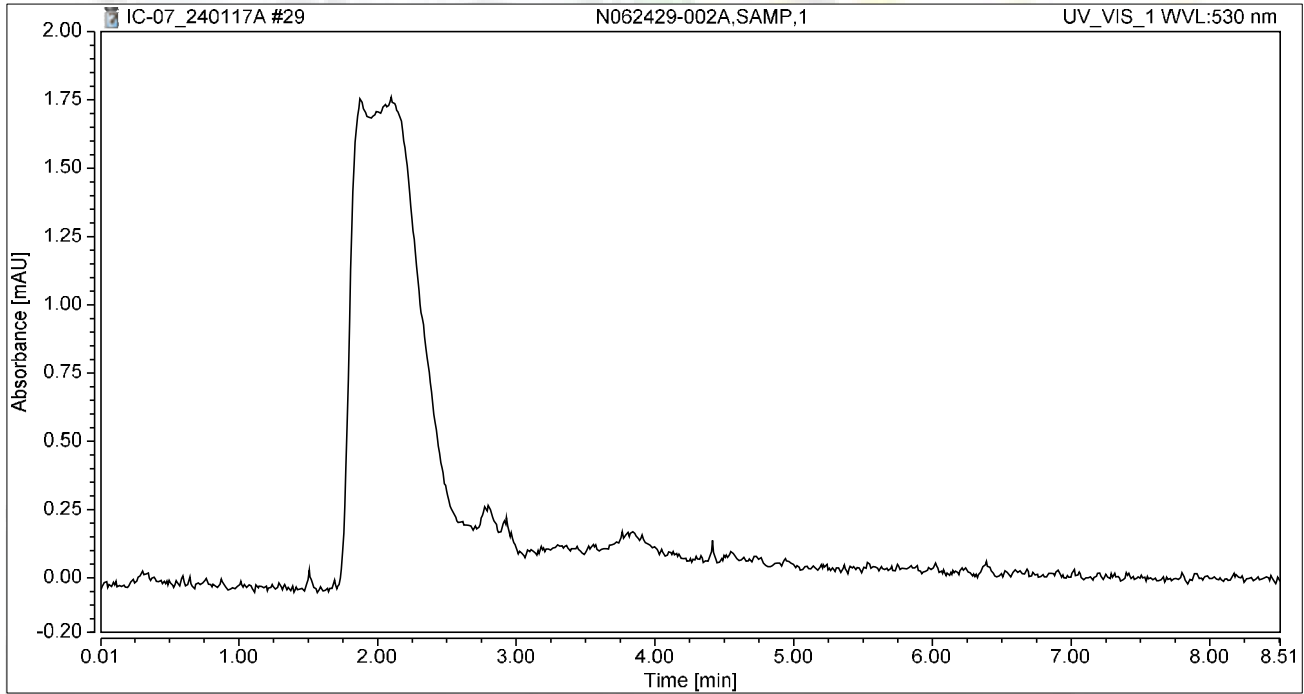
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.220	0.758	100.00	100.00	1.0555
Total:			0.220	0.758	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:48	Sample Weight:	1.0000

Chromatogram



Integration Results

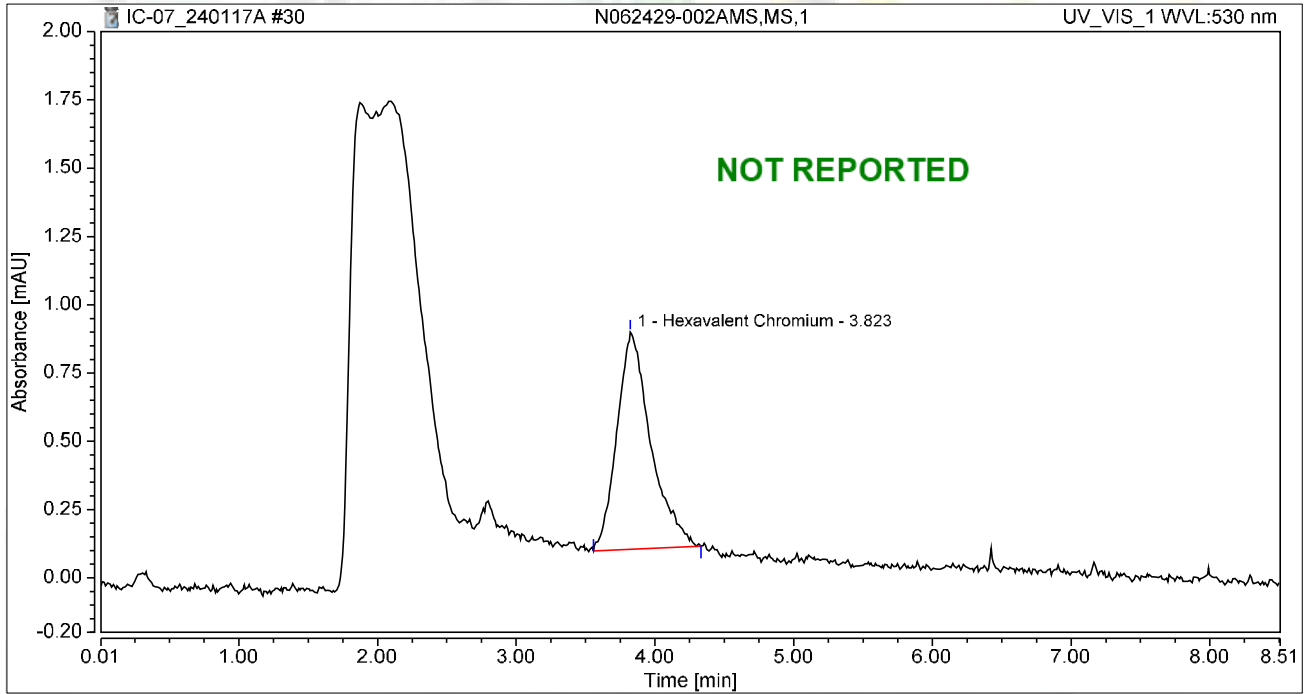
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 12:58	Sample Weight:	1.0000

Chromatogram



Integration Results

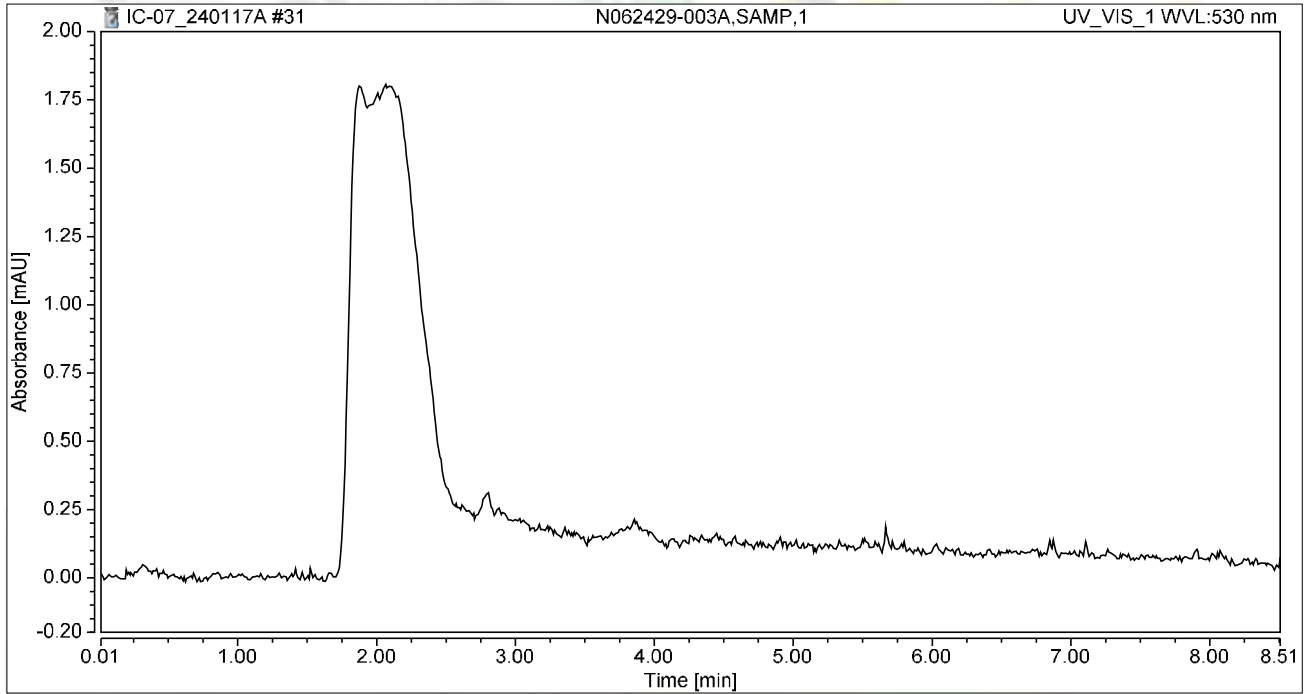
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.224	0.796	100.00	100.00	1.0780
Total:			0.224	0.796	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:07	Sample Weight:	1.0000

Chromatogram



Integration Results

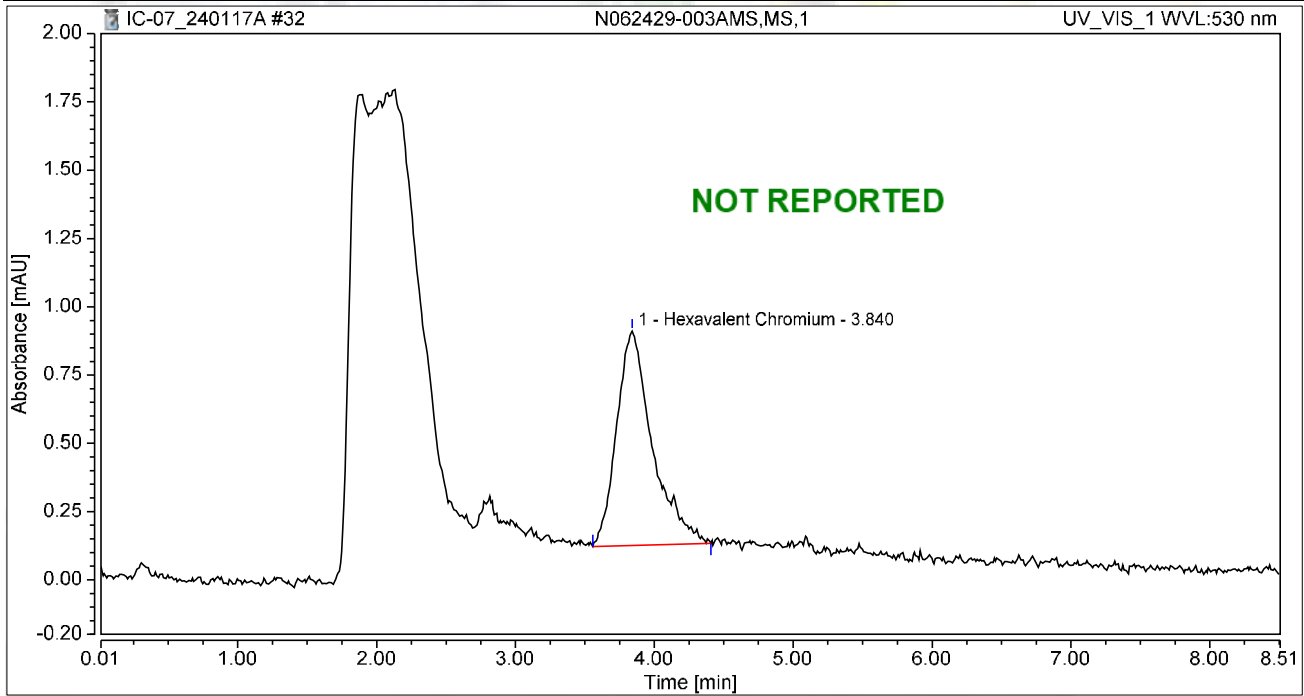
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:17	Sample Weight:	1.0000

Chromatogram



Integration Results

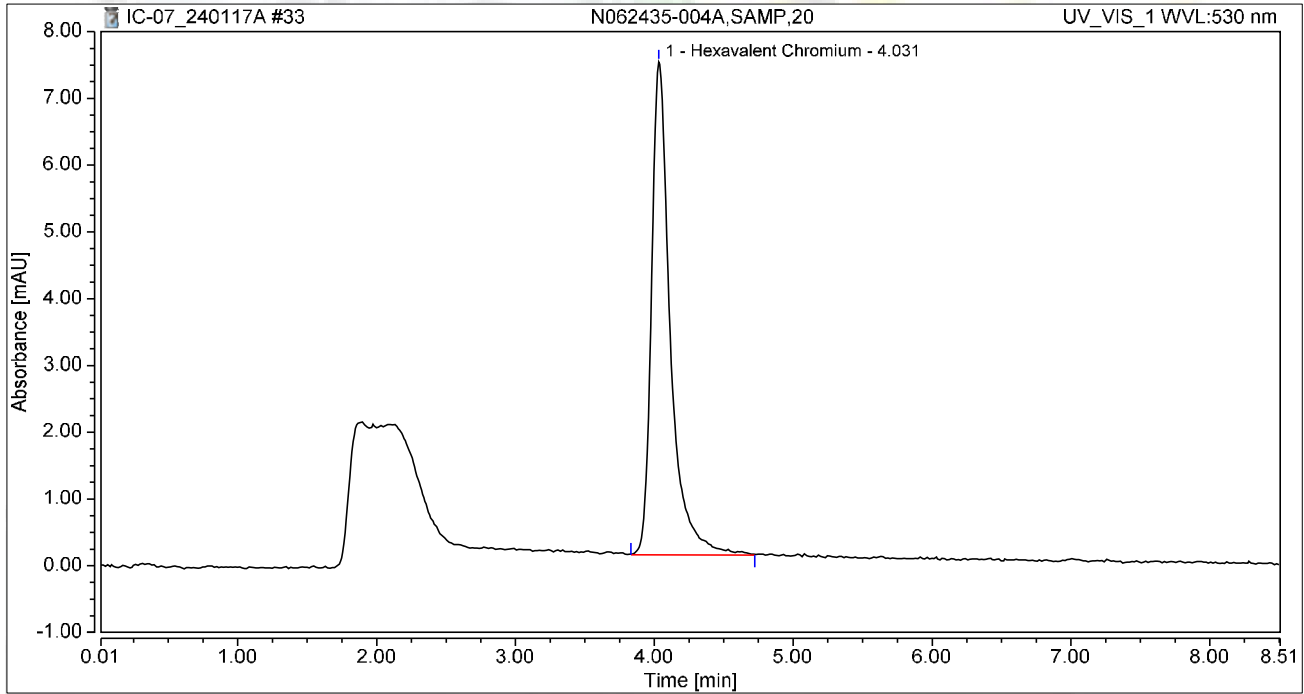
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.234	0.785	100.00	100.00	1.1246
Total:			0.234	0.785	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-004A,SAMP,20	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:26	Sample Weight:	1.0000

Chromatogram



Integration Results

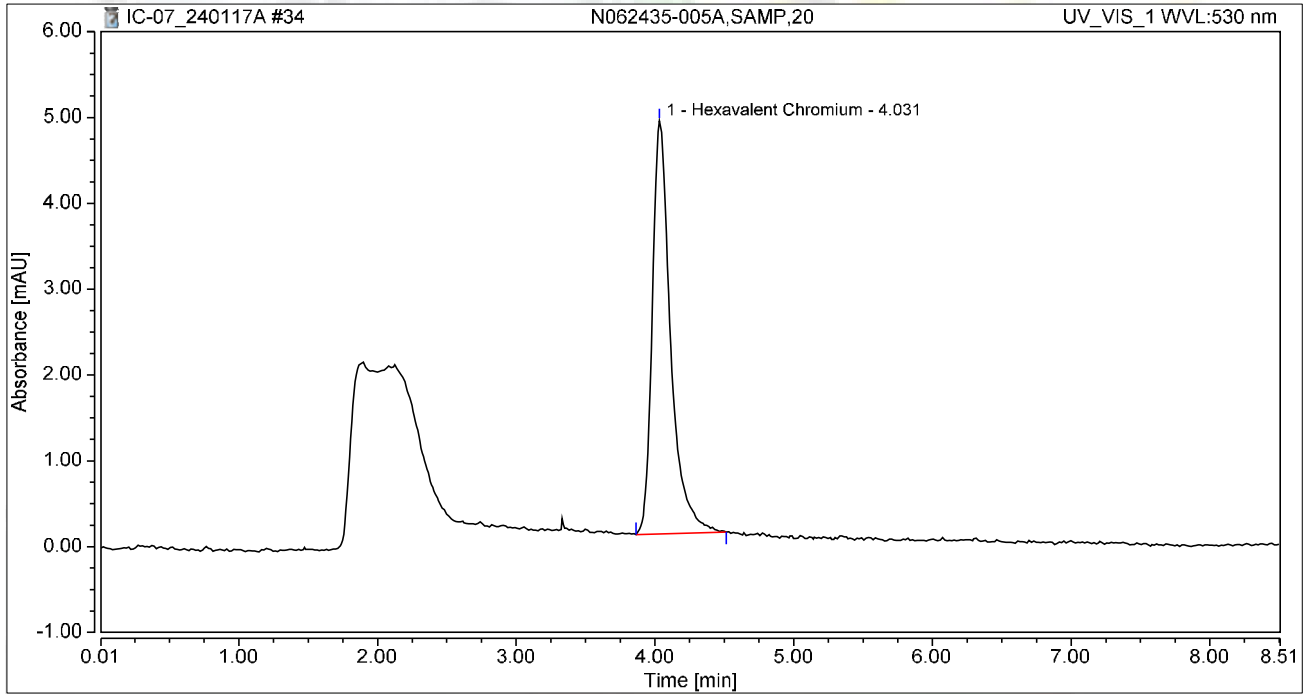
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.167	7.385	100.00	100.00	5.6073
Total:			1.167	7.385	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-005A,SAMP,20	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:36	Sample Weight:	1.0000

Chromatogram



Integration Results

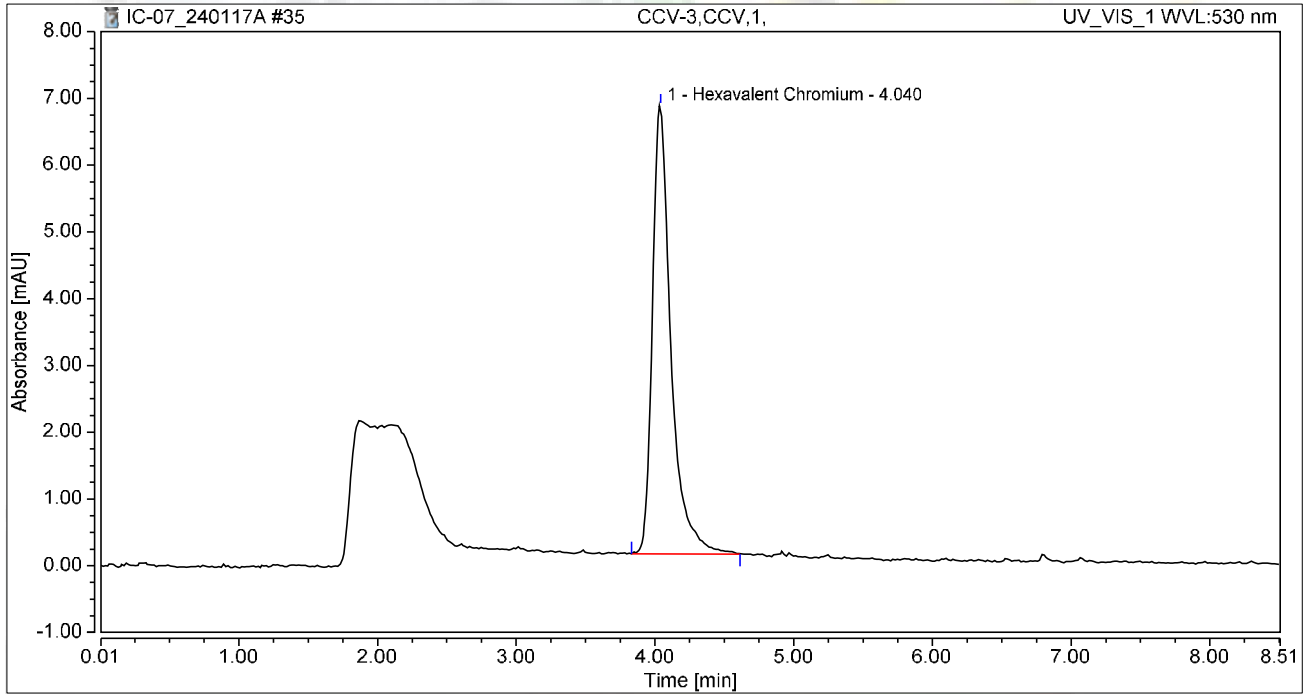
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.737	4.811	100.00	100.00	3.5408
Total:			0.737	4.811	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:45	Sample Weight:	1.0000

Chromatogram



Integration Results

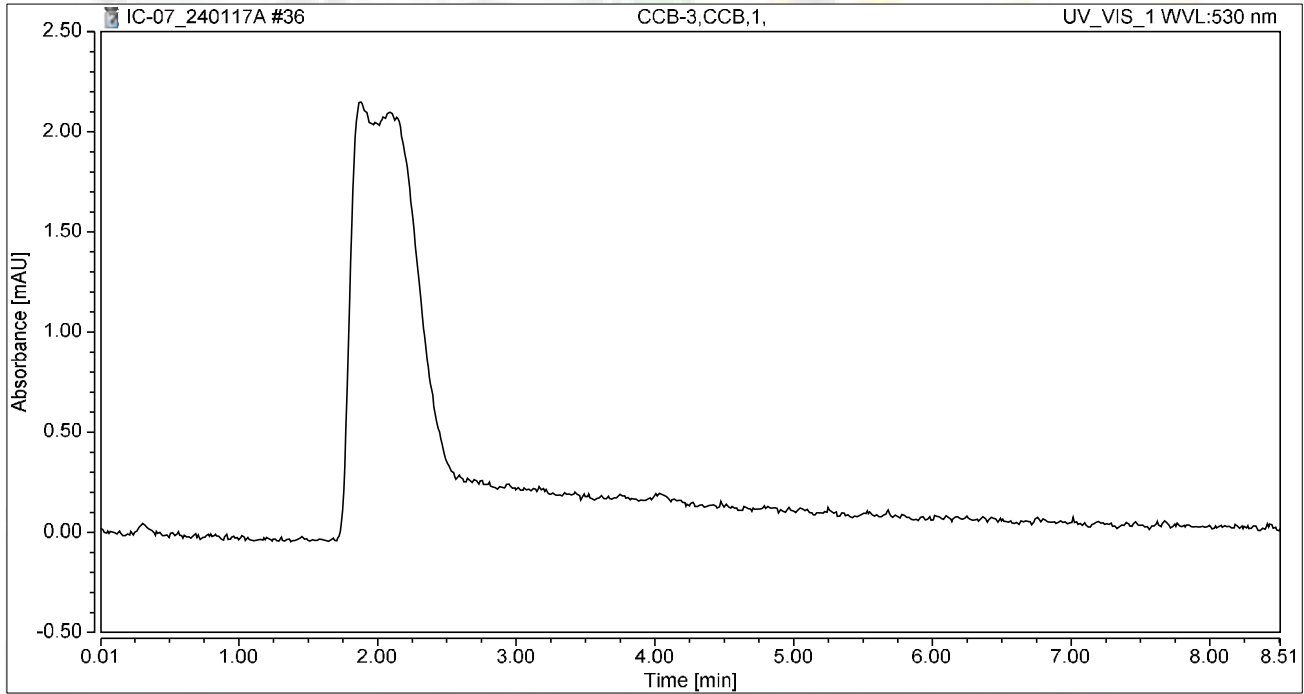
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.042	6.711	100.00	100.00	5.0061
Total:			1.042	6.711	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 13:55	Sample Weight:	1.0000

Chromatogram



Integration Results

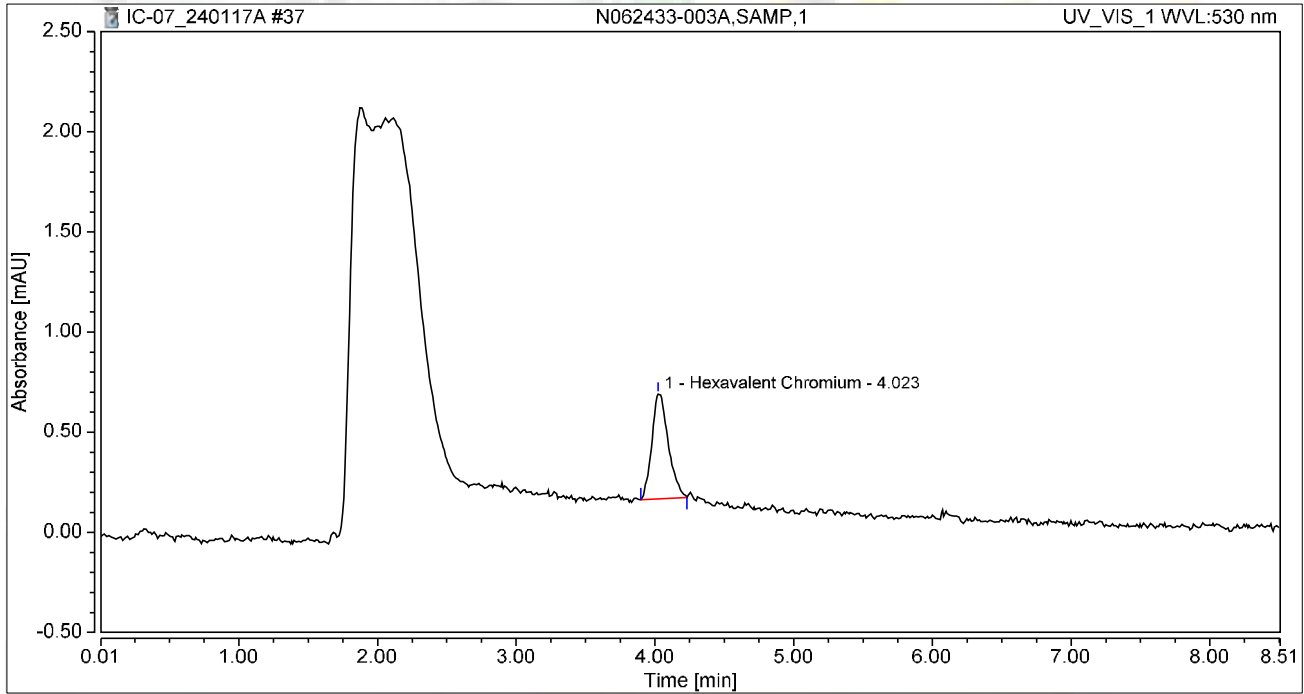
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062433-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:04	Sample Weight:	1.0000

Chromatogram



Integration Results

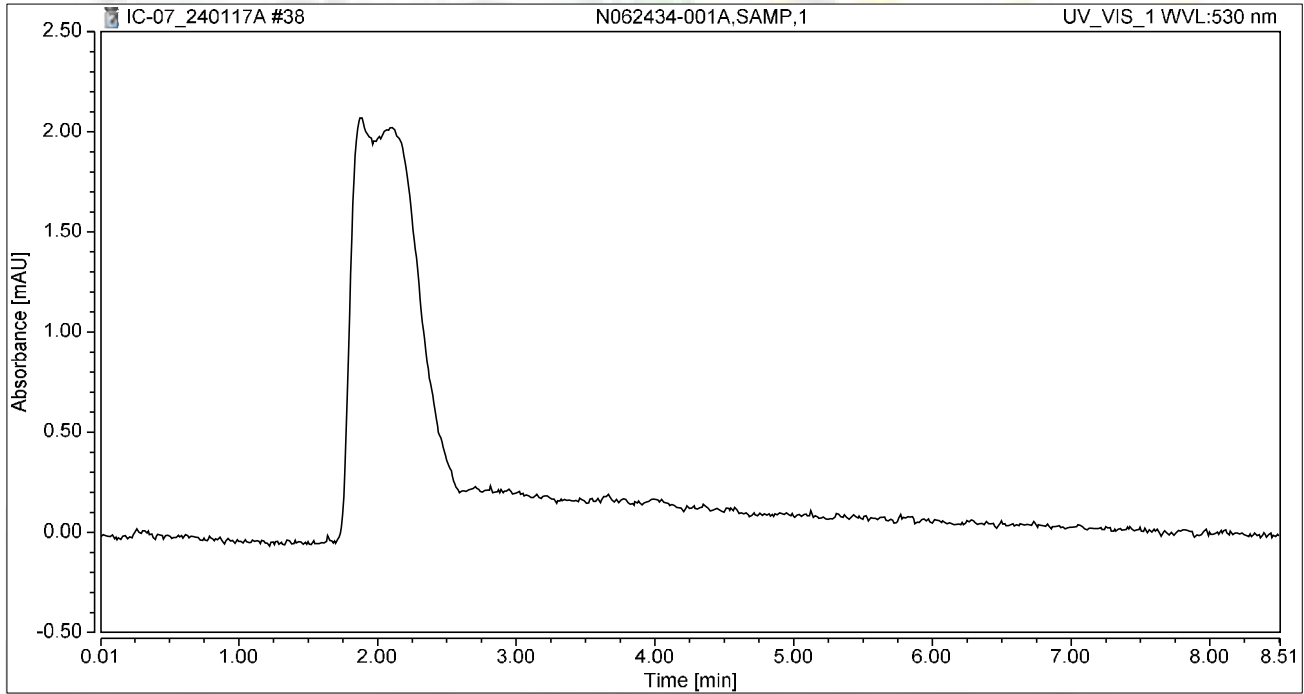
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.072	0.523	100.00	100.00	0.3469
Total:			0.072	0.523	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062434-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

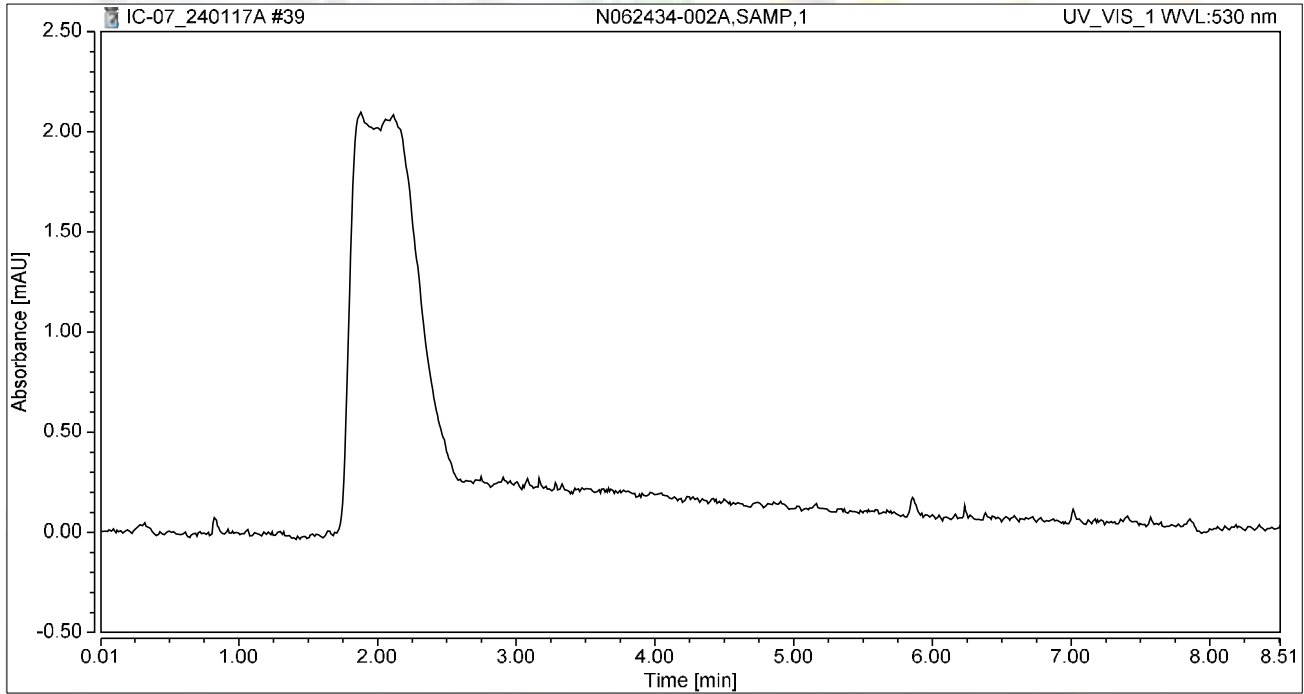
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062434-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:23	Sample Weight:	1.0000

Chromatogram



Integration Results

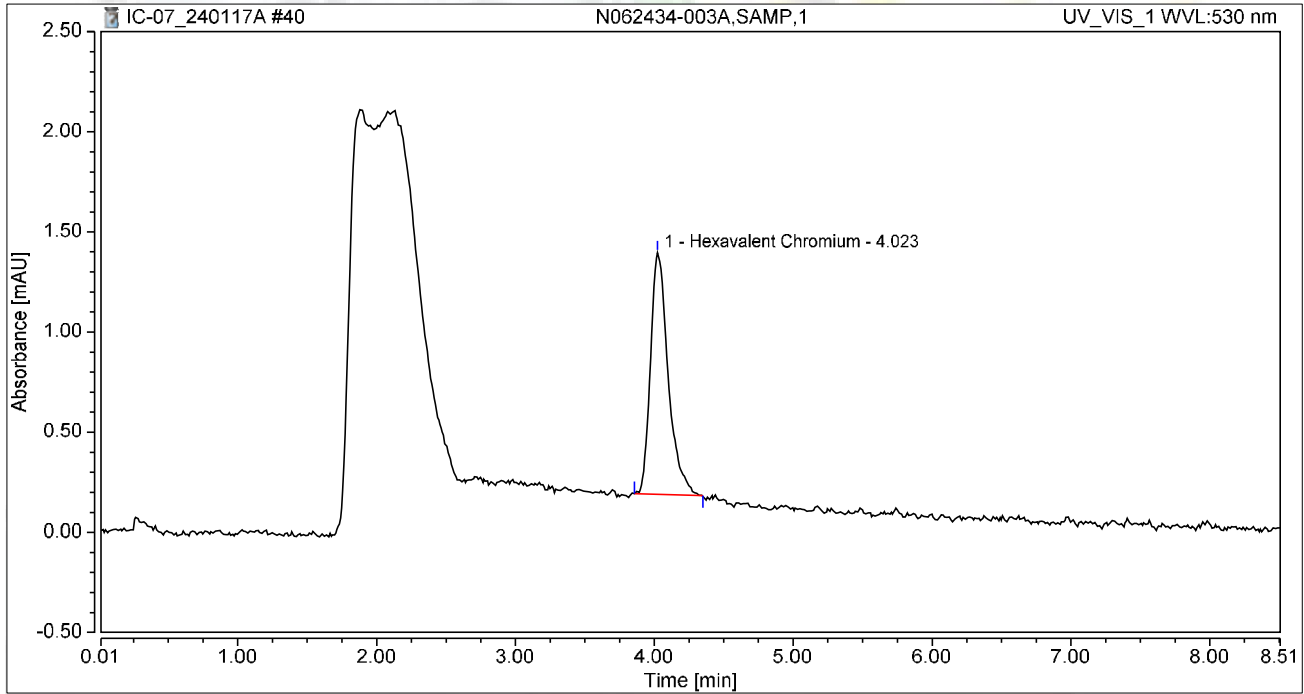
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062434-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:32	Sample Weight:	1.0000

Chromatogram



Integration Results

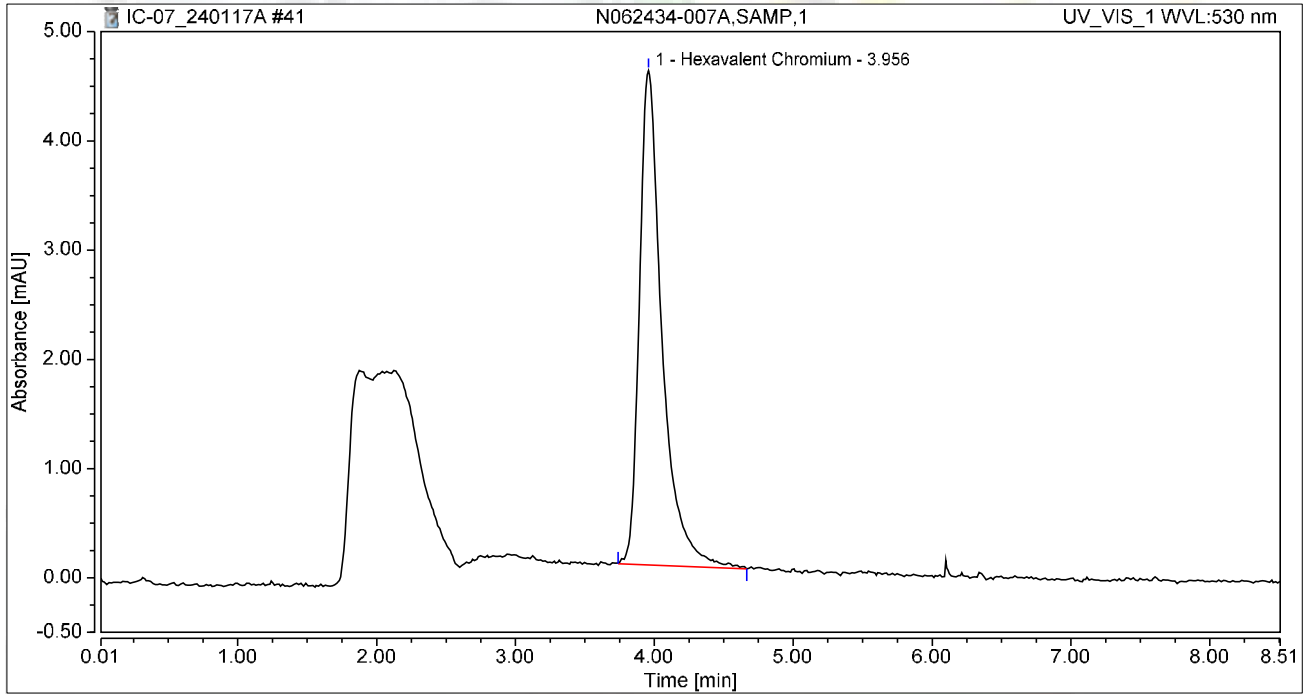
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.179	1.207	100.00	100.00	0.8603
Total:			0.179	1.207	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062434-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:42	Sample Weight:	1.0000

Chromatogram



Integration Results

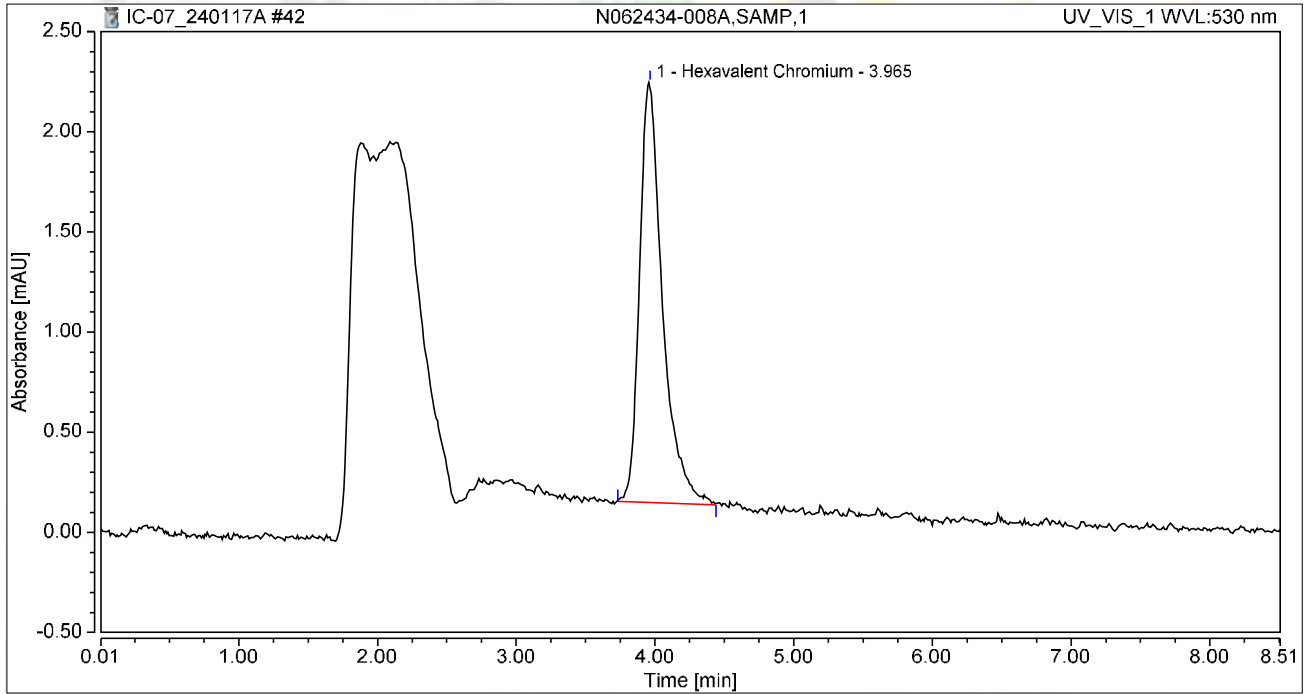
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.956	0.860	4.527	100.00	100.00	4.1311
Total:			0.860	4.527	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062434-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 14:51	Sample Weight:	1.0000

Chromatogram



Integration Results

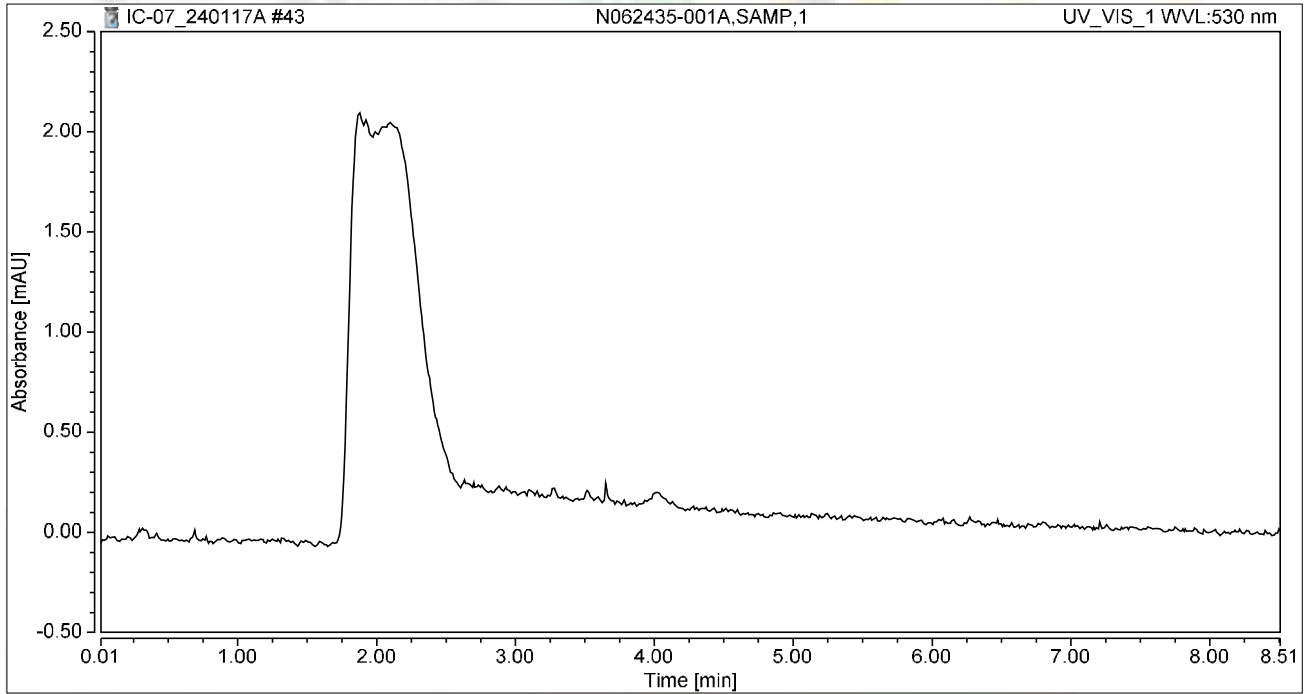
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.402	2.096	100.00	100.00	1.9300
Total:			0.402	2.096	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

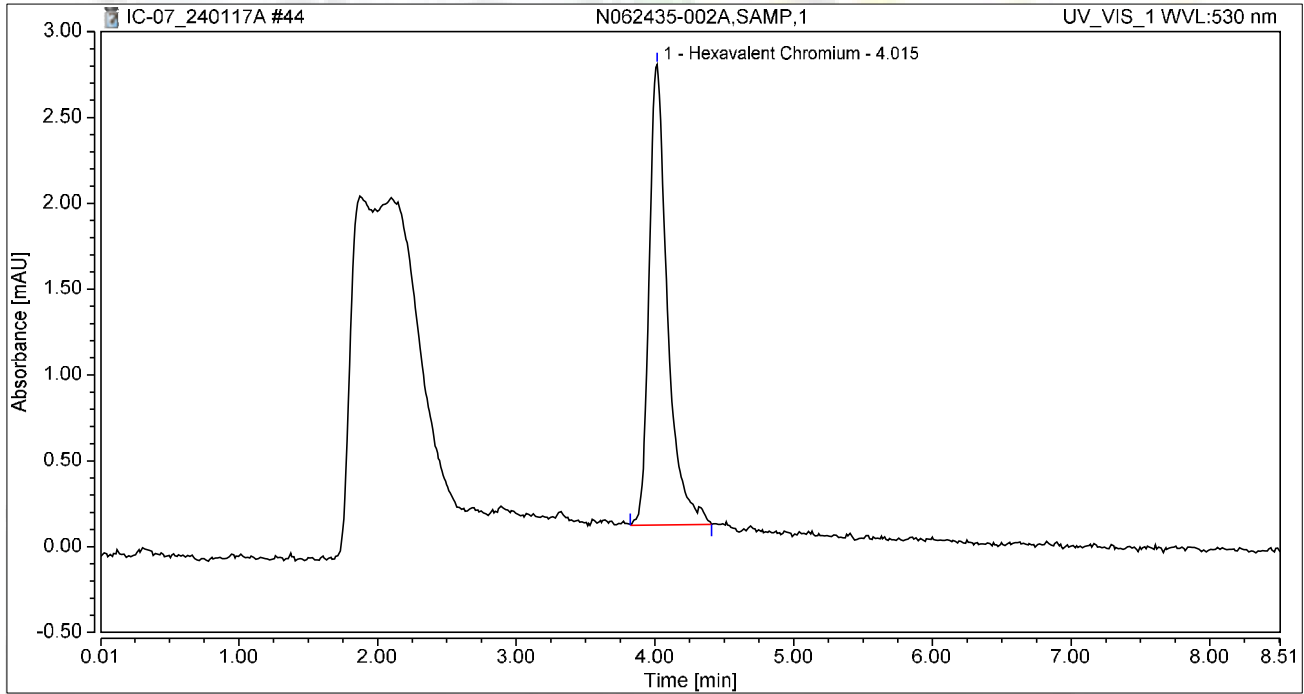
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

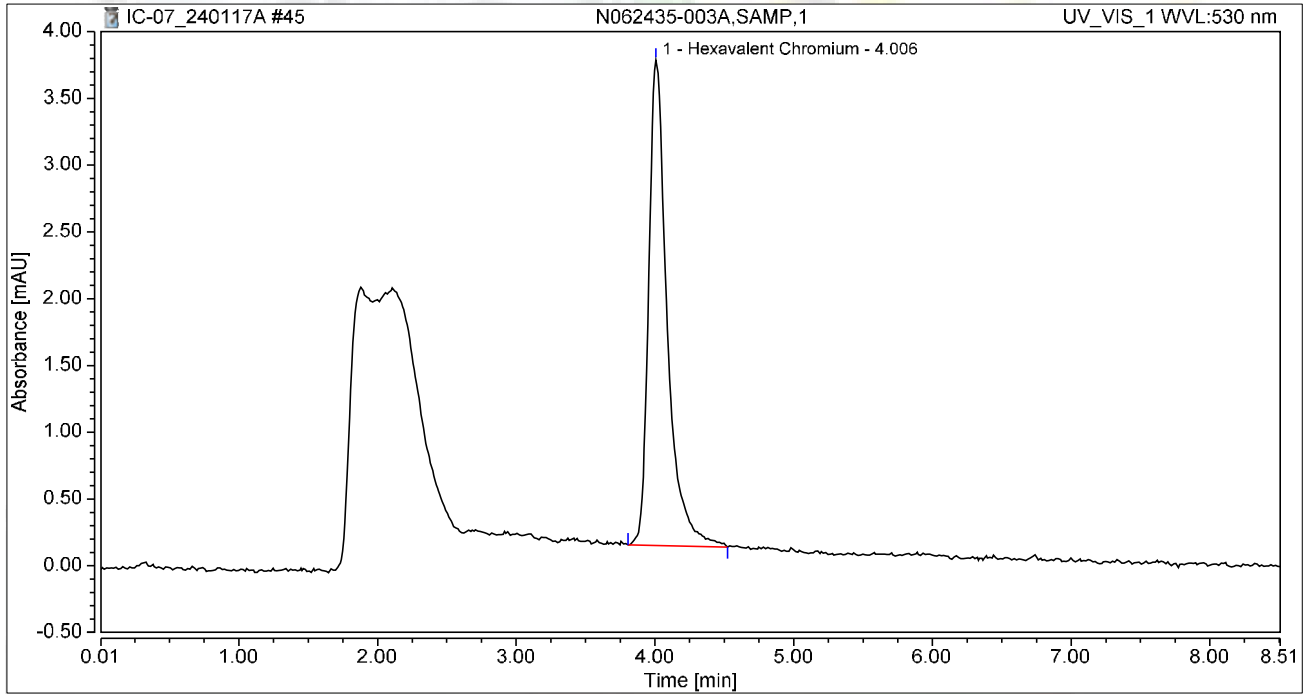
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.412	2.683	100.00	100.00	1.9781
Total:			0.412	2.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 15:20	Sample Weight:	1.0000

Chromatogram



Integration Results

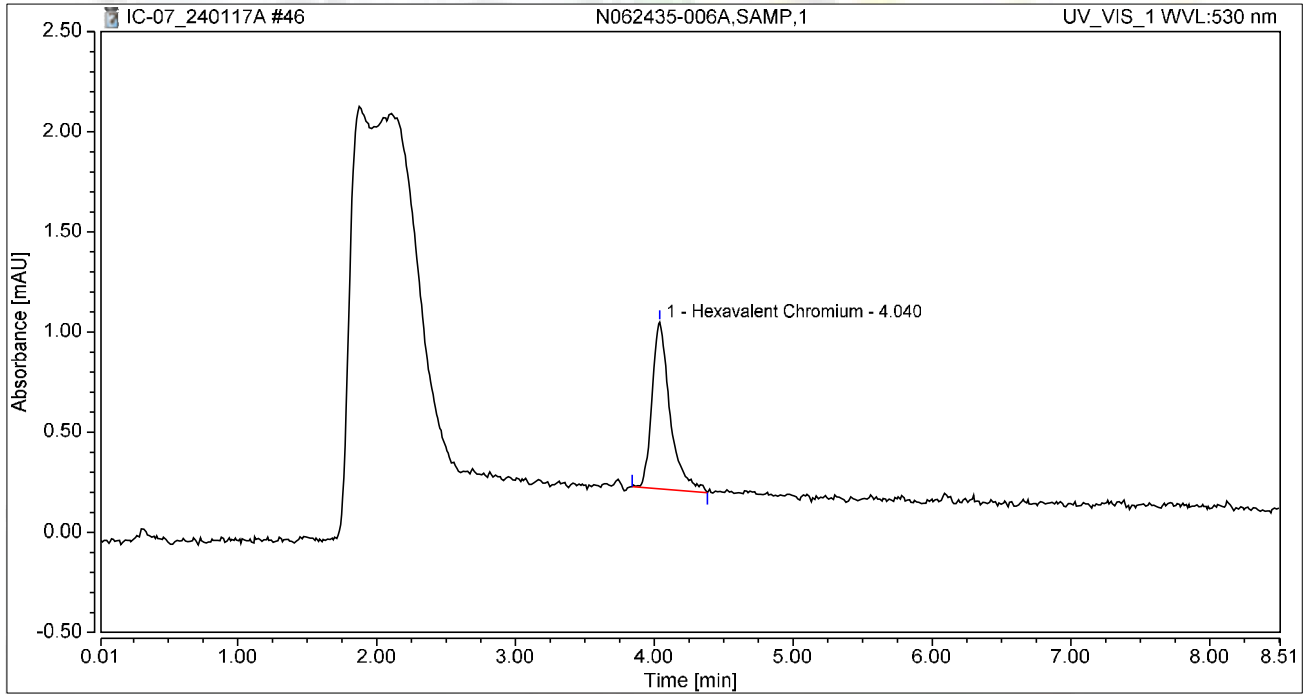
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.563	3.635	100.00	100.00	2.7077
Total:			0.563	3.635	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062435-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

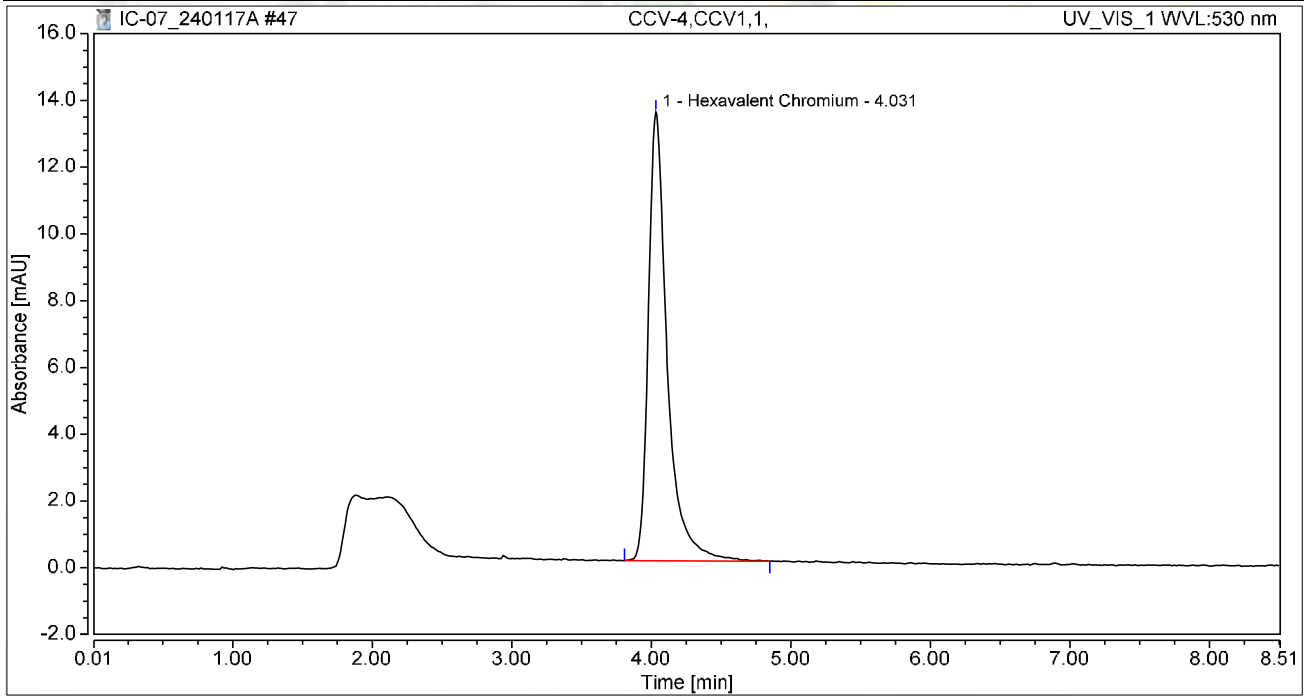
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.126	0.833	100.00	100.00	0.6062
Total:			0.126	0.833	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 15:57	Sample Weight:	1.0000

Chromatogram



Integration Results

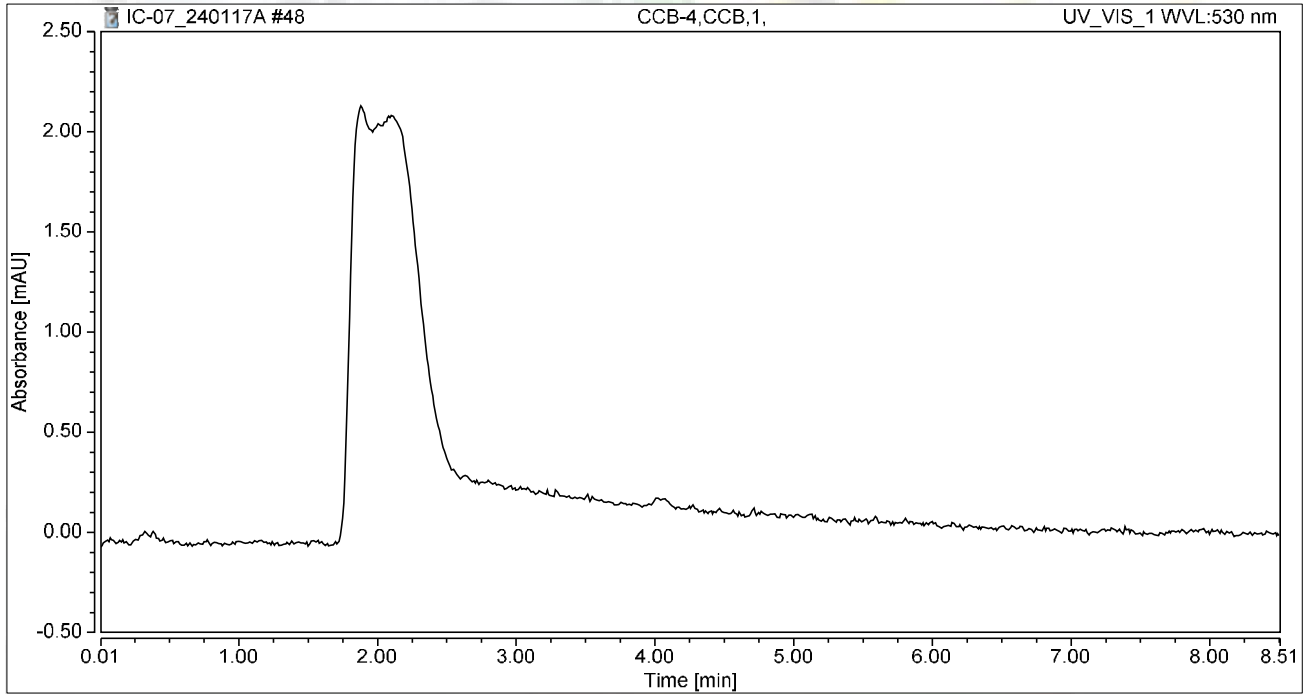
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.109	13.440	100.00	100.00	10.1343
Total:			2.109	13.440	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

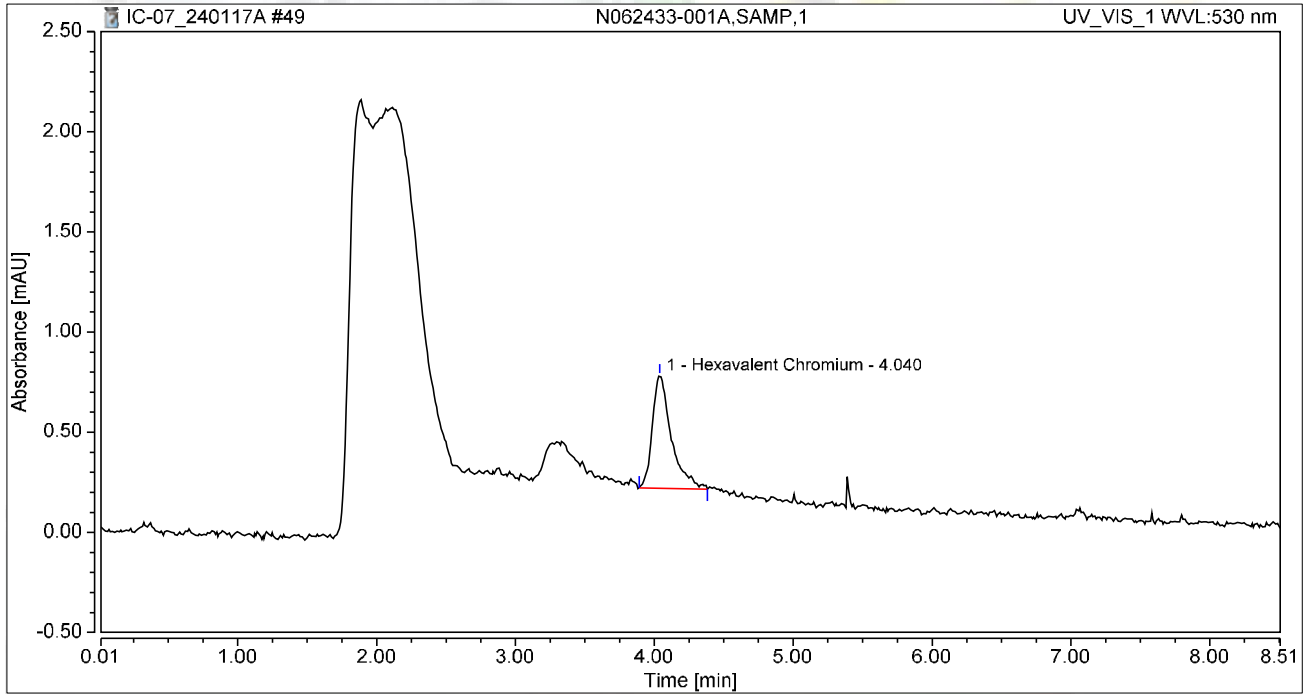
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062433-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

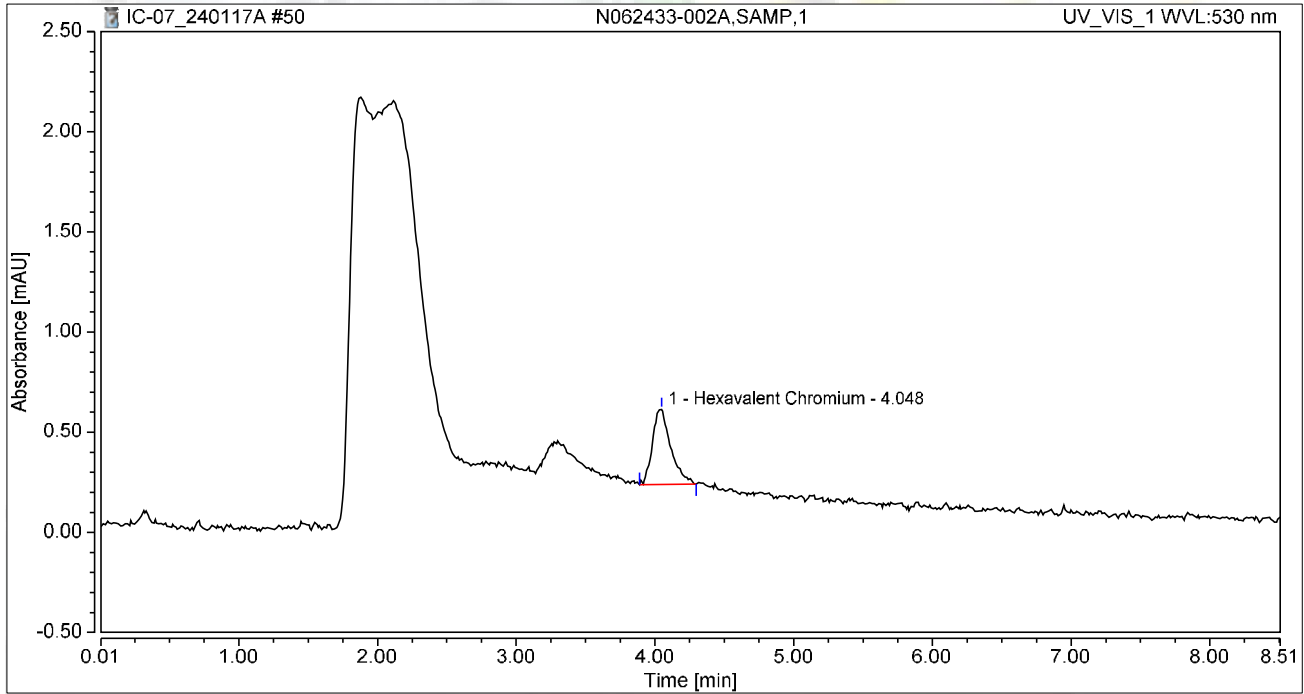
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.089	0.560	100.00	100.00	0.4294
Total:			0.089	0.560	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062433-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 16:25	Sample Weight:	1.0000

Chromatogram



Integration Results

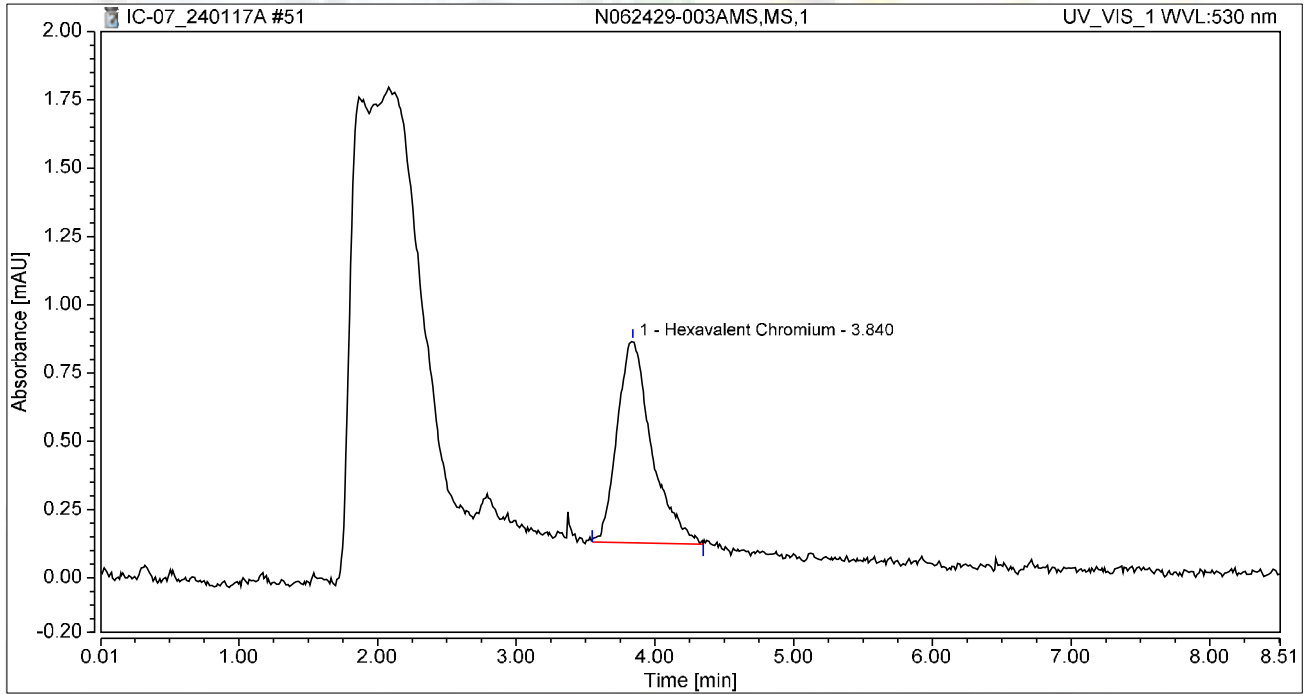
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.057	0.374	100.00	100.00	0.2756
Total:			0.057	0.374	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062429-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

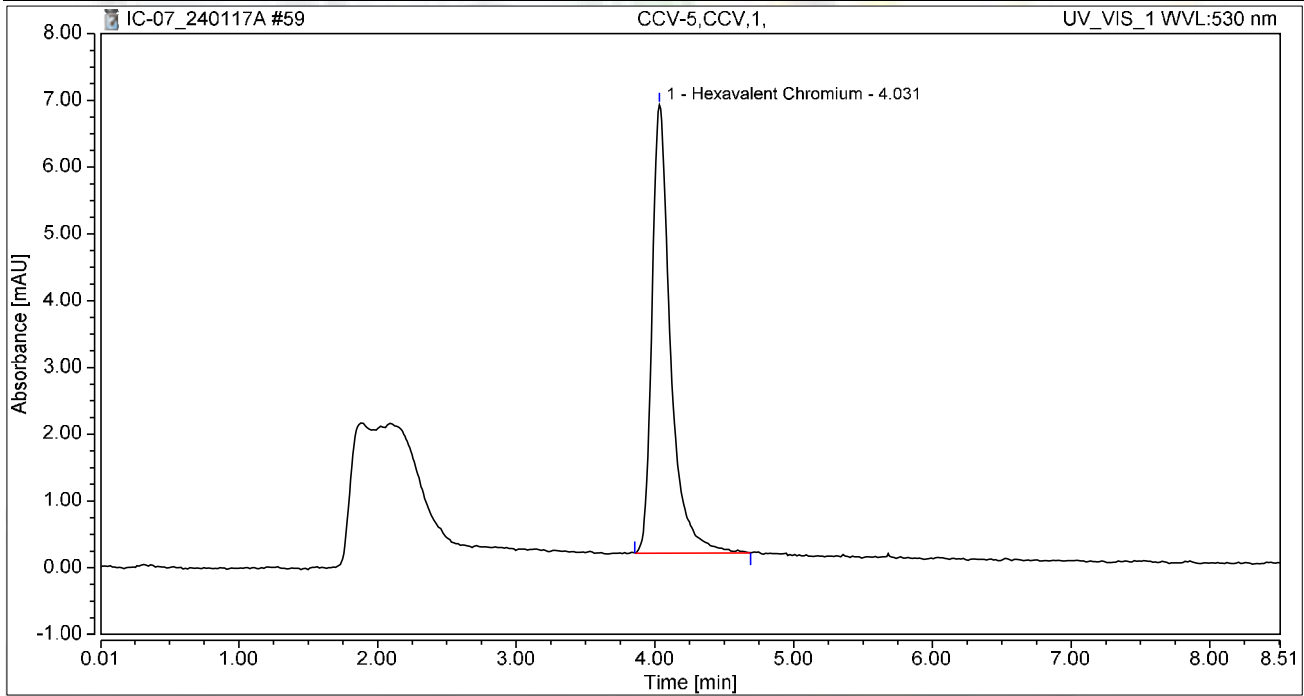
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.213	0.739	100.00	100.00	1.0213
Total:			0.213	0.739	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 17:53	Sample Weight:	1.0000

Chromatogram



Integration Results

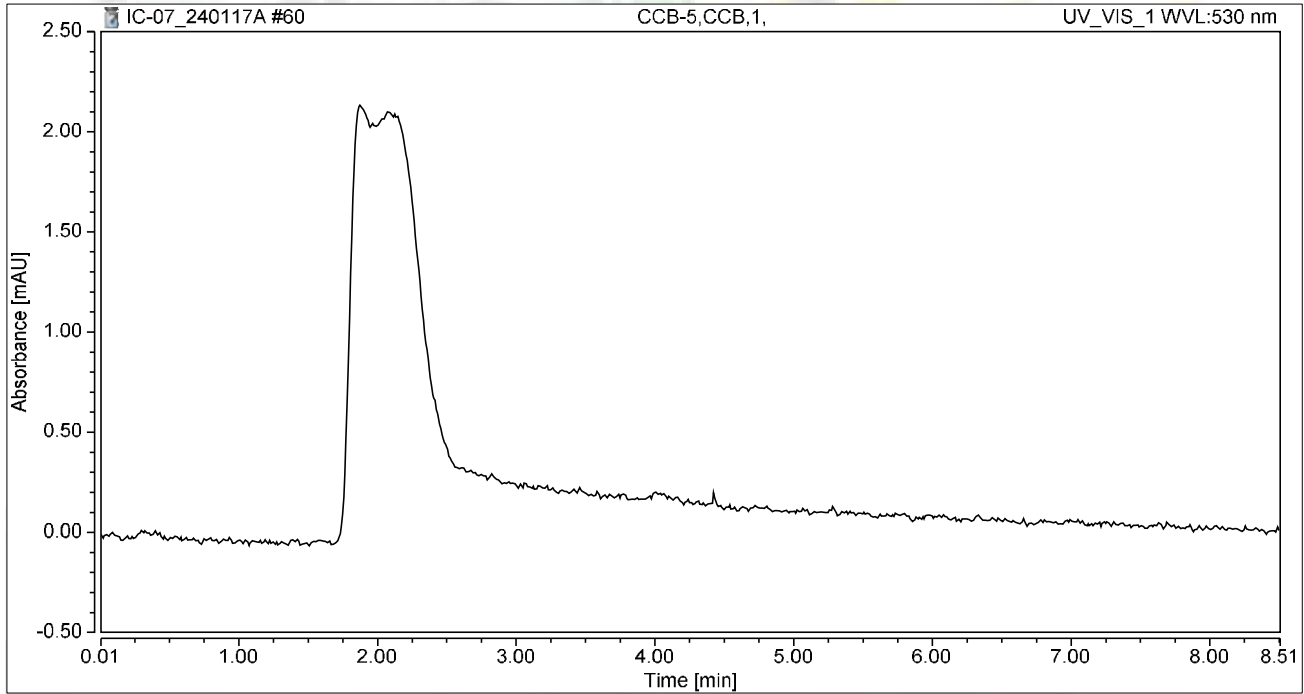
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.042	6.717	100.00	100.00	5.0071
Total:			1.042	6.717	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	17/Jan/24 18:03	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

jrb 1/25/2024

SM 2320 B



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Wet Chemistry Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

FIRST LEVEL REVIEW:

QC Batch Number: R180509

Analyst: LSR

ASSET #: N062346

Date Analyzed: 15-Jan

Method: EPA 2320

	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
Initial Calibration						
1. ICAL before initial sample analysis or every 24 hrs.			X			X
2. Does correlation coefficient, r, meet criteria ?(r = 0.995)			X			X
3. ICV within ± 15% of expected value.			X			X
Continuing Calibration						
4. CCV after every 10 samples and at the end of analysis sequence.			X			X
5. CCV within ± 15% of expected value.			X			X
6. Calibration blanks run after ICV and CCV?			X			X
7. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)			X			X
Sample Information						
8. All samples are within linear range.			X			X
9. Are all samples analyzed within hold time.	X			X		
QC Items						
10. Method blank values are below 1/2 the reporting limit.	X			X		
11. LCS compounds within control limits.	X			X		
12. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
13. Are Non-Conformances documented			X			X
14. Runlog complete and included in package.	X			X		
15. Spectrophotometer tape included (Spec work only)			X			X
16. Digestion log complete and included in package (if applicable)			X			X
Preliminary Report						
17. Does the raw data match the preliminary report?	X			X		
18. Are analytical results correct?	X			X		
19. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer LSR

Date: 1/26/2024

2nd Level Reviewer JRB 1/26/2024
for NS

Date: _____

SAMPLE CALCULATION



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Sample ID: **N062346-001C @ pH 7.59**

A. Standardization of Sulfuric Acid (titrant):

$$\text{Normality of acid} = (A) (B) / (53.00) (C)$$

Where:

A, grams weighed for Na₂CO₃ solution (Na₂CO₃ Standardization Solution)
B, mL Na₂CO₃ solution taken for titration, and
C, ml of sulfuric acid used to inflection point

Spike Standards

Na₂CO₃ Standardization Solution, ACS Grade (1.00 ml = 2500ug as CaCO₃):
Dissolve 2.650 grams of Na₂CO₃ in distilled water and dilute to 1 liter.

LCS/MS/MSD Stock NaHCO₃, ACS Grade (1.00 ml = 5000 ug as CaCO₃):
Dissolve 0.8398 grams of NaHCO₃ in distilled water and dilute to 1 liter.

Therefore,

$$\begin{aligned} \text{Normality of Acid} &= (2.65 \text{ g/L}) (5\text{mL}) / (53.00) (12.40 \text{ mL}) \\ &= \mathbf{0.02016 \text{ N}} \end{aligned}$$

B. CALCULATION OF ALKALINITY (for a 50 ml sample)

$$\text{Total Alkalinity (as CaCO}_3\text{), mg/L} = M_{\text{vol.}} * N \text{ H}_2\text{SO}_4 * \text{DF} * 1000$$

Where:

M_{vol.} Volume titrant used to reach pH 4.5, ml
N, Normality of H₂SO₄
DF, Dilution Factor = (50 ml) / (Vol. of Sample used)

Therefore,

$$\begin{aligned} \text{Total Alkalinity (as CaCO}_3\text{), mg/L} &= (4.85 \text{ mL}) (0.02016 \text{ N}) (1) * 1000 \\ &= 97.7760 \text{ mg/L} \end{aligned}$$

Reporting results in two significant figures,

$$= \mathbf{98 \text{ mg/L as CaCO}_3}$$

C. SPECIATED ALKALINITY:

Phenolphthalein Alkalinity

$$\begin{aligned} \text{P alkalinity, mg/L as CaCO}_3 &= P_{\text{vol.}} \cdot N \text{ H}_2\text{SO}_4 \cdot \text{DF} \cdot 1000 \\ &= (0) (0.02016 \text{ N}) (1) \cdot 1000 \\ &= \mathbf{0 \text{ mg/L}} \end{aligned}$$

Total Alkalinity

$$\begin{aligned} \text{T alkalinity, mg/L as CaCO}_3 &= M_{\text{vol.}} \cdot N \text{ H}_2\text{SO}_4 \cdot \text{DF} \cdot 1000 \\ &= (4.85 \text{ mL}) (0.02016) (1) \cdot 1000 \\ &= \mathbf{97.7760 \text{ mg/L as CaCO}_3} \end{aligned}$$

Where:

- $P_{\text{vol.}}$ - Volume titrant used to reach pH 8.3, ml
- $M_{\text{vol.}}$ - Volume titrant used to reach pH 4.5, ml
- N - Normality of H_2SO_4
- DF - Dilution Factor = (50 ml) / (Vol. of Sample used)

Then OH, CO_3 , HCO_3 alkalinities as CaCO_3 will be calculated as follows:

Result of Titration	OH Alkalinity as CaCO_3	CO_3 Alkalinity as CaCO_3	HCO_3 Alkalinity as CaCO_3
$P = 0$	0	0	T
$P < \frac{1}{2} T$	0	2P	$T - 2P$
$P = \frac{1}{2} T$	0	2P	0
$P > \frac{1}{2} T$	$2P - T$	$2(T - P)$	0
$P = T$	T	0	0

Therefore,

$$\text{OH Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{CO}_3 \text{ Alkalinity as CaCO}_3 = 0$$

$$\text{HCO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{97.7760 \text{ mg/L}}$$


Reporting results in two significant figures,

$$\text{OH Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{CO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{HCO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{98 \text{ mg/L}}$$

Reviewed by:

 2/8/2024

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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SAMPLE	PH SAMPLE	AMOUNT	V@8.3	VT TO 4.5	Sample Type	Standardization:		
MB-1	5.39	50	0.00	0.050	MBLK	Spike amt:	5	ml
LCS-1	8.18	50	0.00	4.70	LCS	Titrant used:	12.400	ml
N062346-001C	7.59	50	0.00	4.85	SAMP			
N062346-002C	7.96	50	0.00	7.95	SAMP	N H2SO4	0.02016	Normal
N062346-001CDUP	7.63	50	0.00	4.80	DUP			
N062346-001CMS	7.87	50	0.00	9.10	MS	Date Analyzed:	1/15/24	
N062346-001CMSD	7.87	50	0.00	9.10	MSD		11:00	
						Analyzed By:	LSR	
						Sodium Carbonate:	CINV-220422A	
						Sodium Bicarbonate:	CINV-210623A	
						Sulfuric Acid:	R231218A	

1/26/2024 LSR

Reviewed by:

 2/8/2024

Date Analyzed:		1/15/24	Reagents:				Standardization:						P = 0
Time Started:		11:00 AM	Sodium Carbonate:		CINV-220422A	Spike amt:		5	mL			P < 1/2 T	
Analyzed By:		LSR	Hydrochloric Acid:		0	Titrant used:		12.4	mL			P = 1/2 T	
			Sulfuric Acid:		R231218A							P > 1/2 T	
						N H2SO4		0.02016	N			P = T	
Sample ID	Sample Vol/Wt.	Sample pH	Std. Code	Spike Amount	Spike Conc.	Normality, Titrant	Vol. Used to pH 8.3, ml.	Vol. Used pH 8.3 to 4.5, ml.	Total Vol. Used, ml.	DF (50ml/Vsamp.)	P Alkalinity	T Alkalinity	Comments
MB-1	50	5.39				0.02016	0.00	0.05	0.05	1	0.00	1.01	
LCS-1	50	8.18				0.02016	0.00	4.70	4.70	1	0.00	94.76	
N062346-001C	50	7.59				0.02016	0.00	4.85	4.85	1	0.00	97.78	
N062346-002C	50	7.96				0.02016	0.00	7.95	7.95	1	0.00	160.28	
N062346-001CDU	50	7.63				0.02016	0.00	4.80	4.80	1	0.00	96.77	
N062346-001CMS	50	7.87				0.02016	0.00	9.10	9.10	1	0.00	183.47	
N062346-001CMS	50	7.87				0.02016	0.00	9.10	9.10	1	0.00	183.47	

1/26/2024 LSR

Speciated, Alkalinity as CaCO3


SM 2320B

Date Analyzed:	<u>1/15/24</u>
Time:	<u>11:00 AM</u>
Analyzed By:	<u>LSR</u>

SAMPLE ID	OH	CO3	HCO3	TOTAL	CHECK	COMMENT	REMARKS
MB-1	0.00	0.00	1.01	1.01	1.01		P = 0
LCS-1	0.00	0.00	94.76	94.76	94.76		P = 0
N062346-001C	0.00	0.00	97.78	97.78	97.78		P = 0
N062346-002C	0.00	0.00	160.28	160.28	160.28		P = 0
N062346-001CDUP	0.00	0.00	96.77	96.77	96.77		P = 0
N062346-001CMS	0.00	0.00	183.47	183.47	183.47		P = 0
N062346-001CMSD	0.00	0.00	183.47	183.47	183.47		P = 0

1/26/2024 LSR

Reviewed by:

 2/8/2024

Alkalinity Preparation and Runlog

Matrix: H ₂ O	Reagent Lot # / Reagent ID	Formulas:	pH meter Calibration:
Date Extracted: 2/11/24	Sodium Carbonate: C1N230422A	$P = \frac{(\text{Vol. at pH } 8.3) \times (\text{N H}_2\text{SO}_4) \times (50,000)}{\text{Vol. Sample}}$	SLOPE: 96.9%
Time Extracted: 1:52	Hydrochloric Acid: -		pH 7: 6.99 C1N230421A
Extracted By: LSN	Sulfuric Acid: C1N231218A	$T = \frac{(\text{Vol. at pH } 4.5) \times (\text{N H}_2\text{SO}_4) \times (50,000)}{\text{Vol. Sample}}$	pH 4: 3.95 L B
Date Analyzed: 1/15/24	Sodium Bicarbonate: C1N2106229A		pH 10: 10.05 C1N231204F
Time Analyzed: 1:00			
Analyzed By: LSN			

Sample ID	Sample Wt./Vol.	Sample pH	Std Code	Spike Amt Added	Spike Conc.	Norm. Titrant	Vol. At pH = 8.3	Vol. At pH = 4.5	Dilution (F/I)	Calculations	Comments
Standardization #1	50 mL	10.19	1W5T230817A	5.0 mL	0.05 N	-	-	12.40	50/50	$N_{H_2SO_4} = 12.65 \text{ g Na}_2\text{CO}_3(5\text{mL})$	= 0.02016129
Standardization #2	50 mL	10.75	1	5.0 mL	0.05 N	-	-	12.40	50/50	(53) (vol. of acid, mL)	

1)	MBLK	50 mL	5.39	-	-	-	0.02016	0	0.05	50/50	
2)	LCS		8.18	1W5T240115A	1.0 mL	0.05N		0	4.70		
3)	NO623461C		7.59	-	-	-		0	4.85		
4)	2C		7.96	-	-	-		0	7.95		
5)	1CMB		7.63	-	-	-		0	4.80		
6)	1CMS		7.87	1W5T240115A	1.0 mL	0.05N		0	9.10		
7)	1CMS0		7.87	1	1	1		0	9.10		
8)											
9)											
10)											
11)											
12)											
13)											
14)											
15)											
16)											
17)											
18)											
19)											
20)											
	MS										
	MSD										
	LCS										

1/26/2024 LSR

LSN

LSN 1/25

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180371
 ASSET # N062346 / N062350

Instrument ID: IC-09
 Analyst: RBA
 Date Analyzed: 1/12/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

~~Detection of Sulfate in MB was >1/2PQL. However, N062350 samples were >5X the CCB detection.~~

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer jrb 1/25/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180520
 ASSET # N062434 / N062436 / N062346

Instrument ID: IC-09
 Analyst: RBA
 Date Analyzed: 1/17/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.		X			X	
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

 %RPD of Phosphate in N062434-001BMSD failed. However, LCS passed criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
 Thommy 01/26/2024
 2nd Level Reviewer _____

Date: —
 Date: —

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062346-001C** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 2.2092 * 5 \\ &= 11.046\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 11$$

Reviewed by:

d/Recha 1/31/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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Sequence: IC-09_240102A
Operator: IC-05

Page 1 of 2
Printed: 1/3/2024 3:58:47 PM

Title:

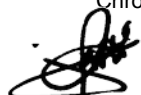
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 1/2/2024 11:20:00 AM by IC-05
Last Update: 1/2/2024 3:18:45 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	Std - 0	Standard	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
2	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
3	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
4	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
5	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
6	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
7	ICV,ICV,1	Unknown	12	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
8	ICB,ICB,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
9	ICB,ICB,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished

Processed by:

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1/3/2024

IC9 RBA 1/3/2024 3:59:25 PM

169

Sequence: IC-09_240102A
Operator: IC-05

Page 2 of 2
Printed: 1/3/2024 3:58:47 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 1/2/2024 11:20:00 AM by IC-05
Last Update: 1/2/2024 3:18:45 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	Std - 0	1/2/2024 11:28:48 AM	IBLANK
2	Std - 1	1/2/2024 12:40:32 PM	STD-LOW
3	Std - 2	1/2/2024 12:56:27 PM	STD
4	Std - 3	1/2/2024 1:12:23 PM	STD
5	Std - 4	1/2/2024 1:31:26 PM	STD
6	Std - 5	1/2/2024 1:47:20 PM	STD-HIGH
7	ICV,ICV,1	1/2/2024 2:03:17 PM	ICV, IWST-231228F
8	ICB,ICB,1	1/2/2024 2:19:13 PM	ICB
9	ICB,ICB,1	1/2/2024 2:35:07 PM	ICB

Sequence: IC-09_240112A
Operator: IC-05

Title:

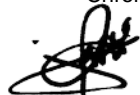
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 60

Created: 1/11/2024 12:14:57 PM by IC-05
Last Update: 1/12/2024 2:40:53 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	Std - 0	Standard	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
2	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
3	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
4	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
5	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
6	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
7	CCV-1,CCV,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
8	CCB-1,CCB,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
9	MB-H2O,MBLK,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
10	LCS-H2O,LCS,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
11	N062346-001C,SAMP,5	Unknown	6	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
12	N062346-002C,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
13	N062350-004B,SAMP,5	Unknown	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
14	N062350-004BMS,MS,5	Unknown	2	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
15	N062350-004BMSD,MSD,5	Unknown	3	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
16	N062350-004BDUP,DUP,5	Unknown	4	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
17	N062350-005B,SAMP,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
18	N062350-006B,SAMP,5	Unknown	6	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
19	CCV-2,CCV,1	Unknown	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
20	CCB-2,CCB,1	Unknown	8	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
21	N062350-008B,SAMP,2	Unknown	9	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
22	N062350-009B,SAMP,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
23	N062350-001B,SAMP,50	Unknown	11	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
24	N062350-005B,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
25	N062350-006B,SAMP,20	Unknown	13	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
26	N062350-008B,SAMP,20	Unknown	14	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
27	N062350-009B,SAMP,10	Unknown	15	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
28	N062350-006BMS,MS,20	Unknown	16	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
29	N062350-006BMSD,MSD,20	Unknown	17	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
30	N062350-008BMS,MS,20	Unknown	18	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
31	CCV-3,CCV,1	Unknown	19	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
32	CCB-3,CCB,1	Unknown	20	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
33	N062350-010B,SAMP,5	Unknown	21	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
34	N062350-011B,SAMP,5	Unknown	22	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
35	N062350-012B,SAMP,5	Unknown	23	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
36	N062350-013B,SAMP,5	Unknown	24	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
37	N062350-014B,SAMP,10	Unknown	25	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
38	N062350-015B,SAMP,10	Unknown	26	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
39	N062350-018B,SAMP,10	Unknown	27	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
40	N062350-019B,SAMP,2	Unknown	28	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
41	N062350-020B,SAMP,2	Unknown	29	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished

Processed by:

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1/14/2024

IC9 RBA 1/14/2024 9:41:09 PM

Sequence: IC-09_240112A
Operator: IC-05

Page 2 of 4
Printed: 1/14/2024 9:40:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 60
Created: 1/11/2024 12:14:57 PM by IC-05
Last Update: 1/12/2024 2:40:53 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	Std - 0	1/2/2024 11:28:48 AM	IBLANK
2	Std - 1	1/2/2024 12:40:32 PM	STD-LOW
3	Std - 2	1/2/2024 12:56:27 PM	STD
4	Std - 3	1/2/2024 1:12:23 PM	STD
5	Std - 4	1/2/2024 1:31:26 PM	STD
6	Std - 5	1/2/2024 1:47:20 PM	STD-HIGH
7	CCV-1,CCV,1	1/12/2024 9:54:03 AM	CCV, IWST-240105A
8	CCB-1,CCB,1	1/12/2024 10:09:22 AM	CCB
9	MB-H2O,MBLK,1	1/12/2024 10:25:17 AM	MB
10	LCS-H2O,LCS,1	1/12/2024 10:41:13 AM	LCS IWST-240105B
11	N062346-001C,SAMP,5	1/12/2024 10:57:09 AM	SAMP,2>10mL,
12	N062346-002C,SAMP,5	1/12/2024 11:13:05 AM	SAMP,2>10mL,
13	N062350-004B,SAMP,5	1/12/2024 11:30:46 AM	SAMP,2>10mL,
14	N062350-004BMS,MS,5	1/12/2024 11:46:05 AM	MS,2>10mL,
15	N062350-004BMSD,MSD,5	1/12/2024 12:02:01 PM	MSD,2>10mL,
16	N062350-004BDUP,DUP,5	1/12/2024 12:17:57 PM	DUP,2>10mL,
17	N062350-005B,SAMP,5	1/12/2024 12:33:53 PM	SAMP,2>10mL,
18	N062350-006B,SAMP,5	1/12/2024 12:50:28 PM	SAMP,2>10mL,
19	CCV-2,CCV,1	1/12/2024 1:08:54 PM	CCV, IWST-240105A
20	CCB-2,CCB,1	1/12/2024 1:28:29 PM	CCB
21	N062350-008B,SAMP,2	1/12/2024 1:44:23 PM	SAMP,5>10mL,
22	N062350-009B,SAMP,1	1/12/2024 2:00:19 PM	SAMP,10mL,
23	N062350-001B,SAMP,50	1/12/2024 2:16:14 PM	SAMP,0.2>10mL,
24	N062350-005B,SAMP,10	1/12/2024 2:32:10 PM	SAMP,1>10mL,
25	N062350-006B,SAMP,20	1/12/2024 2:48:06 PM	SAMP,0.5>10mL,
26	N062350-008B,SAMP,20	1/12/2024 3:04:02 PM	SAMP,0.5>10mL,
27	N062350-009B,SAMP,10	1/12/2024 3:19:58 PM	SAMP,1>10mL,
28	N062350-006BMS,MS,20	1/12/2024 3:35:54 PM	MS,0.5>10mL,
29	N062350-006BMSD,MSD,20	1/12/2024 3:51:50 PM	MSD,0.5>10mL,
30	N062350-008BMS,MS,20	1/12/2024 4:07:46 PM	MS,0.5>10mL,
31	CCV-3,CCV,1	1/12/2024 4:23:42 PM	CCV, IWST-240105A
32	CCB-3,CCB,1	1/12/2024 4:39:37 PM	CCB
33	N062350-010B,SAMP,5	1/12/2024 4:55:33 PM	SAMP,2>10mL,
34	N062350-011B,SAMP,5	1/12/2024 5:11:27 PM	SAMP,2>10mL,
35	N062350-012B,SAMP,5	1/12/2024 5:27:23 PM	SAMP,2>10mL,
36	N062350-013B,SAMP,5	1/12/2024 5:43:19 PM	SAMP,2>10mL,
37	N062350-014B,SAMP,10	1/12/2024 5:59:15 PM	SAMP,1>10mL,
38	N062350-015B,SAMP,10	1/12/2024 6:15:11 PM	SAMP,1>10mL,
39	N062350-018B,SAMP,10	1/12/2024 6:31:00 PM	SAMP,1>10mL,
40	N062350-019B,SAMP,2	1/12/2024 6:46:56 PM	SAMP,5>10mL,
41	N062350-020B,SAMP,2	1/12/2024 7:06:00 PM	SAMP,5>10mL,

Sequence: IC-09_240112A
Operator: IC-05

Page 3 of 4
Printed: 1/14/2024 9:40:41 PM

Title:

Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 60

Created: 1/11/2024 12:14:57 PM by IC-05
Last Update: 1/12/2024 2:40:53 PM by IC-05

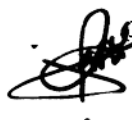
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062350-018BMS,MS,10	Unknown	30	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
43	CCV-4,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
44	CCB-4,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
45	N062350-018BMSD,MSD,10	Unknown	33	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
46	N062346-002C,SAMP,10	Unknown	34	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
47	N062346-001CDUP,DUP,5	Unknown	35	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
48	N062346-001CMS,MS,5	Unknown	36	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
49	N062346-001CMSD,MSD,5	Unknown	37	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
50	N062346-002CDUP,DUP,10	Unknown	38	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
51	N062346-002CMS,MS,10	Unknown	39	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
52	N062346-002CMSD,MSD,10	Unknown	40	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
53	N062350-010B,SAMP,10	Unknown	41	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
54	N062350-011B,SAMP,10	Unknown	42	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
55	CCV-5,CCV,1	Unknown	43	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
56	CCB-5,CCB,1	Unknown	44	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
57	N062350-012B,SAMP,10	Unknown	45	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
58	N062350-013B,SAMP,10	Unknown	46	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
59	CCV-6,CCV,1	Unknown	47	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
60	CCB-6,CCB,1	Unknown	48	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished

Sequence: IC-09_240112A
Operator: IC-05

Page 4 of 4
Printed: 1/14/2024 9:40:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 60
Created: 1/11/2024 12:14:57 PM by IC-05
Last Update: 1/12/2024 2:40:53 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062350-018BMS,MS,10	1/12/2024 7:21:50 PM	MS,1>10mL,
43	CCV-4,CCV,1	1/12/2024 7:37:46 PM	CCV, IWST-240105A
44	CCB-4,CCB,1	1/12/2024 7:53:43 PM	CCB
45	N062350-018BMSD,MSD,10	1/12/2024 8:09:38 PM	MSD,1>10mL,
46	N062346-002C,SAMP,10	1/12/2024 8:25:35 PM	SAMP,1>10mL,
47	N062346-001CDUP,DUP,5	1/12/2024 8:41:31 PM	DUP,2>10mL,
48	N062346-001CMS,MS,5	1/12/2024 8:57:26 PM	MS,2>10mL,
49	N062346-001CMSD,MSD,5	1/12/2024 9:13:22 PM	MSD,2>10mL,
50	N062346-002CDUP,DUP,10	1/12/2024 9:29:18 PM	DUP,1>10mL,
51	N062346-002CMS,MS,10	1/12/2024 9:45:14 PM	MS,1>10mL,
52	N062346-002CMSD,MSD,10	1/12/2024 10:01:10 PM	MSD,1>10mL,
53	N062350-010B,SAMP,10	1/12/2024 10:17:06 PM	SAMP,1>10mL,
54	N062350-011B,SAMP,10	1/12/2024 10:33:03 PM	SAMP,1>10mL,
55	CCV-5,CCV,1	1/12/2024 10:48:59 PM	CCV, IWST-240105A
56	CCB-5,CCB,1	1/12/2024 11:04:55 PM	CCB
57	N062350-012B,SAMP,10	1/12/2024 11:20:52 PM	SAMP,1>10mL,
58	N062350-013B,SAMP,10	1/12/2024 11:36:48 PM	SAMP,1>10mL,
59	CCV-6,CCV,1	1/12/2024 11:52:44 PM	CCV, IWST-240105A
60	CCB-6,CCB,1	1/13/2024 12:08:40 AM	CCB



Sequence: IC-09_240117A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 52
Created: 1/15/2024 11:38:37 AM by IC-05
Last Update: 1/17/2024 4:40:14 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	Std - 0	Standard	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
2	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
3	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
4	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
5	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
6	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
7	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
8	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
9	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
10	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
11	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
12	N062434-001B,SAMP,5	Unknown	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
13	N062434-001BMS,MS,5	Unknown	2	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
14	N062434-001BMSD,MSD,5	Unknown	1	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
15	N062434-001BDUP,DUP,5	Unknown	2	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
16	N062434-002B,SAMP,5	Unknown	3	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
17	N062434-003B,SAMP,2	Unknown	4	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
18	N062434-004A,SAMP,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
19	N062434-005A,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
20	CCV-2,CCV,1	Unknown	7	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
21	CCB-2,CCB,1	Unknown	8	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
22	N062436-002B,SAMP,20	Unknown	9	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
23	N062434-007B,SAMP,50	Unknown	10	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
24	N062434-008B,SAMP,20	Unknown	11	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
25	N062434-006A,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
26	N062436-006B,SAMP,5	Unknown	13	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
27	N062436-001B,SAMP,20	Unknown	14	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
28	N062436-003B,SAMP,10	Unknown	15	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
29	N062436-004B,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
30	N062436-005B,SAMP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
31	N062436-002B,SAMP,50	Unknown	18	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
32	CCV-3,CCV,1	Unknown	19	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
33	CCB-3,CCB,1	Unknown	20	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
34	N062436-002BMS,MS,50	Unknown	21	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
35	N062436-002BMSD,MSD,50	Unknown	22	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
36	N062346-001C,SAMP,100	Unknown	23	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
37	N062346-001CDUP,DUP,100	Unknown	24	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
38	N062346-001CMS,MS,100	Unknown	25	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
39	N062346-001CMSD,MSD,100	Unknown	26	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
40	N062346-001C,SAMP,20	Unknown	27	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
41	N062346-001CDUP,DUP,20	Unknown	28	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)

1/18/2024

IC9 RBA 1/18/2024 4:45:58 PM

Sequence: IC-09_240117A
Operator: IC-05

Page 2 of 4
Printed: 1/18/2024 4:45:29 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 52
Created: 1/15/2024 11:38:37 AM by IC-05
Last Update: 1/17/2024 4:40:14 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	Std - 0	1/2/2024 11:28:48 AM	IBLANK
2	Std - 1	1/2/2024 12:40:32 PM	STD-LOW
3	Std - 2	1/2/2024 12:56:27 PM	STD
4	Std - 3	1/2/2024 1:12:23 PM	STD
5	Std - 4	1/2/2024 1:31:26 PM	STD
6	Std - 5	1/2/2024 1:47:20 PM	STD-HIGH
7	BLANK	1/17/2024 7:28:53 AM	BLANK
8	CCV-1,CCV,1	1/17/2024 7:47:29 AM	CCV, IWST-240113A
9	CCB-1,CCB,1	1/17/2024 8:03:16 AM	CCB
10	MB-H2O,MBLK,1	1/17/2024 8:19:12 AM	MB
11	LCS-H2O,LCS,1	1/17/2024 8:35:07 AM	LCS IWST-240113B
12	N062434-001B,SAMP,5	1/17/2024 9:50:17 AM	SAMP,2>10mL,
13	N062434-001BMS,MS,5	1/17/2024 10:07:11 AM	MS,2>10mL,
14	N062434-001BMSD,MSD,5	1/17/2024 10:47:26 AM	MSD,2>10mL,
15	N062434-001BDUP,DUP,5	1/17/2024 11:02:45 AM	DUP,2>10mL,
16	N062434-002B,SAMP,5	1/17/2024 11:18:41 AM	SAMP,2>10mL,
17	N062434-003B,SAMP,2	1/17/2024 11:34:36 AM	SAMP,5>10mL,
18	N062434-004A,SAMP,5	1/17/2024 11:50:32 AM	SAMP,2>10mL,
19	N062434-005A,SAMP,10	1/17/2024 12:06:27 PM	SAMP,1>10mL,
20	CCV-2,CCV,1	1/17/2024 12:22:24 PM	CCV, IWST-240113A
21	CCB-2,CCB,1	1/17/2024 12:38:20 PM	CCB
22	N062436-002B,SAMP,20	1/17/2024 12:54:16 PM	SAMP,0.5>10mL,
23	N062434-007B,SAMP,50	1/17/2024 1:10:12 PM	SAMP,0.2>10mL,
24	N062434-008B,SAMP,20	1/17/2024 1:26:08 PM	SAMP,0.5>10mL,
25	N062434-006A,SAMP,10	1/17/2024 1:42:04 PM	SAMP,1>10mL,
26	N062436-006B,SAMP,5	1/17/2024 1:58:01 PM	SAMP,2>10mL,
27	N062436-001B,SAMP,20	1/17/2024 2:13:57 PM	SAMP,0.5>10mL,
28	N062436-003B,SAMP,10	1/17/2024 2:29:53 PM	SAMP,1>10mL,
29	N062436-004B,SAMP,10	1/17/2024 2:45:50 PM	SAMP,1>10mL,
30	N062436-005B,SAMP,5	1/17/2024 3:01:46 PM	SAMP,2>10mL,
31	N062436-002B,SAMP,50	1/17/2024 3:17:42 PM	SAMP,0.2>10mL,
32	CCV-3,CCV,1	1/17/2024 3:33:37 PM	CCV, IWST-240113A
33	CCB-3,CCB,1	1/17/2024 3:49:33 PM	CCB
34	N062436-002BMS,MS,50	1/17/2024 4:05:30 PM	MS,0.2>10mL,
35	N062436-002BMSD,MSD,50	1/17/2024 4:21:25 PM	MSD,0.2>10mL,
36	N062346-001C,SAMP,100	1/17/2024 4:37:21 PM	SAMP,0.1>10mL,
37	N062346-001CDUP,DUP,100	1/17/2024 4:53:18 PM	DUP,0.1>10mL,
38	N062346-001CMS,MS,100	1/17/2024 5:09:14 PM	MS,0.1>10mL,
39	N062346-001CMSD,MSD,100	1/17/2024 5:25:09 PM	MSD,0.1>10mL,
40	N062346-001C,SAMP,20	1/17/2024 5:41:05 PM	SAMP,0.5>10mL,
41	N062346-001CDUP,DUP,20	1/17/2024 5:57:01 PM	DUP,0.5>10mL,

Sequence: IC-09_240117A
Operator: IC-05

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Printed: 1/18/2024 4:45:29 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 52
Created: 1/15/2024 11:38:37 AM by IC-05
Last Update: 1/17/2024 4:40:14 PM by IC-05

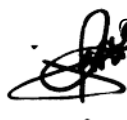
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062346-001CMS,MS,20	Unknown	29	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
43	N062346-001CMSD,MSD,20	Unknown	30	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
44	CCV-4,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
45	CCB-4,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
46	N062434-003BMS,MS,2	Unknown	33	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
47	N062434-003BMSD,MSD,2	Unknown	34	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
48	N062434-003B,SAMP,5	Unknown	35	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
49	N062434-003BMS,MS,5	Unknown	36	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
50	N062434-003BMSD,MSD,5	Unknown	37	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
51	CCV-5,CCV,1	Unknown	38	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished
52	CCB-5,CCB,1	Unknown	39	1000.0	Anions_Default	EPA 300_0_240102A_2	Finished

Sequence: IC-09_240117A
Operator: IC-05

Page 4 of 4
Printed: 1/18/2024 4:45:29 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 52
Created: 1/15/2024 11:38:37 AM by IC-05
Last Update: 1/17/2024 4:40:14 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062346-001CMS,MS,20	1/17/2024 6:12:58 PM	MS,0.5>10mL,
43	N062346-001CMSD,MSD,20	1/17/2024 6:28:53 PM	MSD,0.5>10mL,
44	CCV-4,CCV,1	1/17/2024 6:44:50 PM	CCV, IWST-240113A
45	CCB-4,CCB,1	1/17/2024 7:00:46 PM	CCB
46	N062434-003BMS,MS,2	1/17/2024 7:16:43 PM	MS,5>10mL,
47	N062434-003BMSD,MSD,2	1/17/2024 7:32:39 PM	MSD,5>10mL,
48	N062434-003B,SAMP,5	1/17/2024 7:48:35 PM	SAMP,2>10mL,
49	N062434-003BMS,MS,5	1/17/2024 8:04:31 PM	MS,2>10mL,
50	N062434-003BMSD,MSD,5	1/17/2024 8:20:26 PM	MSD,2>10mL,
51	CCV-5,CCV,1	1/17/2024 8:36:21 PM	CCV, IWST-240113A
52	CCB-5,CCB,1	1/17/2024 8:52:18 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/2/2024

Initial Calibration:

Fluoride	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0080	0.0507	0.1018	0.2690	0.5560	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712A

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/2/2024

Initial Calibration:

Chloride	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	1	2	5	10	R ²
Area,mAU*min	0.0029	0.0565	0.1504	0.2988	0.7670	1.6349	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712B

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/2/2024

Initial Calibration:

Bromide	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0031	0.0146	0.0308	0.0774	0.1577	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712D

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/2/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0162	0.0894	0.1776	0.4503	0.9483	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/2/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0018	0.0400	0.2169	0.4386	1.1241	2.3619	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5622022							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.263	0.50	1.250	0	101	90	110				
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Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.338	0.50	1.250	0	107	90	110				
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Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.321	0.50	1.250	0	106	90	110				
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Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622032							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.329	0.50	1.250	0	106	90	110				
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Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622034							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.313	0.50	1.250	0	105	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622039							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.314	0.50	1.250	0	105	90	110				
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Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	1.312	0.50	1.250	0	105	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5622002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.888	0.50	2.000	0	94.4	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622004							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.011	0.50	2.000	0	101	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622008							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.021	0.50	2.000	0	101	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622010							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.020	0.50	2.000	0	101	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.021	0.50	2.000	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	2.006	0.50	2.000	0	100	90	110
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Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	2.012	0.50	2.000	0	101	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ICV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5632852							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.888	0.50	2.000	0	94.4	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632854							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.108	0.50	2.000	0	105	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632858							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.053	0.50	2.000	0	103	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632860							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.048	0.50	2.000	0	102	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632866							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.037	0.50	2.000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632868						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.037	0.50	2.000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5621981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.264	0.10	1.250	0	101	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.321	0.10	1.250	0	106	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.312	0.10	1.250	0	105	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.319	0.10	1.250	0	105	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5621993							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.312	0.10	1.250	0	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	1.305	0.10	1.250	0	104	90	110
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Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622000						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	1.311	0.10	1.250	0	105	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5622118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.868	0.50	4.000	0	96.7	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.138	0.50	4.000	0	103	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.084	0.50	4.000	0	102	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.100	0.50	4.000	0	102	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622128						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.068	0.50	4.000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.072	0.50	4.000	0	102	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.065	0.50	4.000	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ICV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5632932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.868	0.50	4.000	0	96.7	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632934						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.098	0.50	4.000	0	102	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.097	0.50	4.000	0	102	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.118	0.50	4.000	0	103	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.112	0.50	4.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCV	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632948							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.134	0.50	4.000	0	103	90	110				

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5624354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.261	0.050	1.250	0	101	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5624356						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.304	0.050	1.250	0	104	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5624363						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.288	0.050	1.250	0	103	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5624373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.283	0.050	1.250	0	103	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5624385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.281	0.050	1.250	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624390							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.283	0.050	1.250	0	103	90	110				

Sample ID: CCV-6	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCV	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624392							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.294	0.050	1.250	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL • TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5622023							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622031							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622033							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_BRPG	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622035							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_BRPG Units: mg/L			Prep Date:			RunNo: 180371			
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0			Analysis Date: 1/12/2024			SeqNo: 5622040			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	ND	0.50									
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Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_BRPG Units: mg/L			Prep Date:			RunNo: 180371			
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0			Analysis Date: 1/13/2024			SeqNo: 5622042			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	ND	0.50									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371
Client ID: ICB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5622003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622005	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622009	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622011	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622013	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_CLPG Units: mg/L				Prep Date:				RunNo: 180371	
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0				Analysis Date: 1/12/2024				SeqNo: 5622019	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.50									
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Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_CLPG Units: mg/L				Prep Date:				RunNo: 180371	
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0				Analysis Date: 1/13/2024				SeqNo: 5622021	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.50									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: ICB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5632853							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632855							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632859							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_CLPG	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_CLPG Units: mg/L				Prep Date:			RunNo: 180520		
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0				Analysis Date: 1/17/2024			SeqNo: 5632869		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: ICB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_FPGE	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5621994						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.10

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_FPGE Units: mg/L			Prep Date:			RunNo: 180371			
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0			Analysis Date: 1/12/2024			SeqNo: 5621999			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	ND	0.10									
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Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_FPGE Units: mg/L			Prep Date:			RunNo: 180371			
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0			Analysis Date: 1/13/2024			SeqNo: 5622001			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	ND	0.10									
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Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: ICB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5622119							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622121							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622125							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622127							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5622129							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5622137						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-6	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180371						
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0		Analysis Date: 1/13/2024	SeqNo: 5622141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180520							
Client ID: ICB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5632933							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180520							
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632935							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180520							
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
---------	----	------	--	--	--	--	--	--	--	--	--

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180520							
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632941							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180520							
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0	Analysis Date: 1/17/2024	SeqNo: 5632947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180520						
Client ID: CCB	Batch ID: R180520	TestNo: EPA 300.0		Analysis Date: 1/17/2024	SeqNo: 5632949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371
Client ID: ICB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624355
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624357
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624364
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Nitrate as N ND 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624374
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624386
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Nitrate as N ND 0.050

Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5624391							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Sample ID: CCB-6	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 180371							
Client ID: CCB	Batch ID: R180371	TestNo: EPA 300.0	Analysis Date: 1/13/2024	SeqNo: 5624393							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Fluoride 3.217	
CCV-1	Fluoride 3.204	
CCV-2	Fluoride 3.207	
CCV-3	Fluoride 3.207	
CCV-4	Fluoride 3.207	
CCV-5	Fluoride 3.207	
CCV-6	Fluoride 3.204	

Average 3.206

Applied RT Window 3.006 - 3.406

MB-R180371_F	Fluoride	N.A.	N.A.
LCS-R180371_F	Fluoride	3.204	PASS
N062346-001C	Fluoride	3.204	PASS
N062346-002C	Fluoride	3.204	PASS
N062346-001CDUP	Fluoride	3.211	PASS
N062346-001CMS	Fluoride	3.204	PASS
N062346-001CMSD	Fluoride	3.207	PASS

Reviewed by:

dRecha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Chloride 4.627	
CCV-1	Chloride 4.601	
CCV-2	Chloride 4.607	
CCV-3	Chloride 4.597	
CCV-4	Chloride 4.601	
CCV-5	Chloride 4.564	
CCV-6	Chloride 4.561	

Average 4.589

Applied RT Window 4.389 - 4.789

MB-R180371_CL	Chloride 4.591	PASS
LCS-HR180371_CL	Chloride 4.591	PASS
N062346-002C	Chloride 4.577	PASS
N062346-002CDUP	Chloride 4.571	PASS
N062346-002CMS	Chloride 4.571	PASS
N062346-002CMSD	Chloride 4.567	PASS

Reviewed by:

d/Rocha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/17/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Chloride 4.627	
CCV-1	Chloride 4.624	
CCV-2	Chloride 4.614	
CCV-3	Chloride 4.607	
CCV-4	Chloride 4.611	
CCV-5	Chloride 4.607	

Average 4.613

Applied RT Window 4.413 - 4.813

MB-R180520_CL	Chloride 4.614	PASS
LCS-R180520_CL	Chloride 4.617	PASS
N062346-001C	Chloride 4.617	PASS
N062346-001CDUP	Chloride 4.611	PASS
N062346-001CMS	Chloride 4.614	PASS
N062346-001CMSD	Chloride 4.614	PASS

Reviewed by:

dRecha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Bromide 6.687	
CCV-1	Bromide 6.644	
CCV-2	Bromide 6.647	
CCV-3	Bromide 6.624	
CCV-4	Bromide 6.627	
CCV-5	Bromide 6.510	
CCV-6	Bromide 6.507	

Average 6.593

Applied RT Window 6.393 - 6.793

MB-R180371_BR	Bromide	N.A.	N.A.
LCS-R180371_BR	Bromide	6.607	PASS
N062346-001C	Bromide	6.637	PASS
N062346-002C	Bromide	6.654	PASS
N062346-001CDUP	Bromide	6.544	PASS
N062346-001CMS	Bromide	6.537	PASS
N062346-001CMSD	Bromide	6.531	PASS

Reviewed by:

d/Rocha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 7.497	
CCV-1	Nitrate 7.444	
CCV-2	Nitrate 7.447	
CCV-3	Nitrate 7.421	
CCV-4	Nitrate 7.421	
CCV-5	Nitrate 7.300	
CCV-6	Nitrate 7.297	

Average 7.388

Applied RT Window 7.188 - 7.588

MB-R180371_NO3	Nitrate	N.A.	N.A.
LCS-R180371_NO3	Nitrate	7.404	PASS
N062346-001C	Nitrate	7.431	PASS
N062350-004BDUP	Nitrate	7.467	PASS
N062350-006BMS	Nitrate	7.440	PASS
N062350-006BMSD	Nitrate	7.421	PASS
N062350-008BMS	Nitrate	7.437	PASS
N062350-018BMS	Nitrate	7.434	PASS
N062350-018BMSD	Nitrate	7.357	PASS
N062346-002C	Nitrate	7.341	PASS
N062346-002CDUP	Nitrate	7.324	PASS

Reviewed by:

d/Rocha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 11.107	
CCV-1	Sulfate 10.927	
CCV-2	Sulfate 10.937	
CCV-3	Sulfate 10.991	
CCV-4	Sulfate 10.994	
CCV-5	Sulfate 11.054	
CCV-6	Sulfate 11.061	

Average 10.994

Applied RT Window 10.794 - 11.194

MB-R180371_SO4	Sulfate	10.934	PASS
LCS-R180371_SO4	Sulfate	10.937	PASS
N062346-002C	Sulfate	11.031	PASS
N062346-002CDUP	Sulfate	11.054	PASS
N062346-002CMS	Sulfate	11.054	PASS
N062346-002CMSD	Sulfate	11.061	PASS

Reviewed by:

d/Recha 1/31/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 1/17/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	11.107	
CCV-1	Sulfate	11.101	
CCV-2	Sulfate	11.100	
CCV-3	Sulfate	11.067	
CCV-4	Sulfate	11.074	
CCV-5	Sulfate	11.084	

Average 11.085

Applied RT Window 10.885 - 11.285

MB-R180520_SO4	Sulfate	N.A.	N.A.
LCS-R180520_SO4	Sulfate	11.097	PASS
N062346-001C	Sulfate	11.077	PASS
N062346-001CDUP	Sulfate	11.074	PASS
N062346-001CMS	Sulfate	11.080	PASS
N062346-001CMSD	Sulfate	11.080	PASS

Reviewed by:

d/Rocha 1/31/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved / SM 2340B



ASSET LABORATORIES
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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106013
 ASSET #: N062346

03
 Instrument ID: ICP-02
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/13/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented		X			X	
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Ca in N062348-001C-PS/MS1 , failed. However, LCS passed criteria.
 % Rec of Ca and Fe in several IQCs failed. However, IQCs that enclosed samples passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 01262024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106013
 ASSET #: N062346

Instrument ID: ICP-02
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/15/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented		X			X	
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

%Rec of Na in N062346-001B-MS2/MSD2 @25x failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 01262024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Boron concentration, in mg/L in the original sample as follows:

$$\text{Boron, mg/L} = A * DF * PF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062346-001B**, the concentration in mg/L is calculated as follows:

$$\text{Boron, mg/L} = 0.28517 * 1 * (25/25)$$

$$\text{Boron, mg/L} = 0.28517$$

Reporting results in two significant figures,

$$\text{Boron, mg/L} = \mathbf{0.29}$$

Reviewed by:

d/Recha 2/6/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	B	0	1.25	15	PASS
Standard1	ICAL	1	B	0.1	0.95	15	PASS
Standard3	ICAL	1	B	1	0.61	15	PASS
Standard4	ICAL	1	B	2.5	0.25	15	PASS
Standard5	ICAL	1	B	3.75	0.32	15	PASS
Standard6	ICAL	1	B	5	0.12	15	PASS
Standard7	ICAL	1	B	10	0.13	15	PASS
ICV	ICV	1	B	5.01	0.69	15	PASS
ICB	ICB	1	B	0.01	8.83	15	PASS
LLICV1	CCV1	1	B	0.11	0.78	20	PASS
ICSA1	ICSA	1	B	1.03	0.93	15	PASS
ICSAB1	ICSAB	1	B	0	23.18	15	<PQL
ICSA1	ICSA	1	B	0	8.63	15	PASS
ICSAB1	ICSAB	1	B	1.03	0.26	15	PASS
RINSE	RINSE	1	B	0.04	0.63	15	PASS
MB-106013	MBLK	1	B	0	9.98	15	PASS
LCS1-106013	LCS	1	B	4.72	0.22	15	PASS
N062346-001B	SAMP	1	B	0.29	1.19	15	PASS
N062346-002B	SAMP	1	B	0.24	0.45	15	PASS
N062348-001C	SAMP	1	B	0.54	0.42	15	PASS
N062348-001C	SAMP	5	B	0.1	1.32	15	PASS
N062348-001C-PS	PS	1	B	6.3	0.3	15	PASS
N062348-001C-MS	MS	1	B	6.52	0.33	15	PASS
N062348-001C-MSD	MSD	1	B	6.52	0.21	15	PASS
CCV1	CCV	1	B	5.02	0.2	15	PASS
CCB1	CCB	1	B	0.01	13.6	15	PASS
N062348-002C	SAMP	1	B	1.03	0.75	15	PASS
N062348-003C	SAMP	1	B	1.63	0.76	15	PASS
N062348-004C	SAMP	1	B	2.37	0.44	15	PASS
N062348-009C	SAMP	1	B	1.5	0.12	15	PASS
N062348-010C	SAMP	1	B	1.5	0.12	15	PASS
CCV2	CCV	1	B	4.99	0.65	15	PASS
CCB2	CCB	1	B	0.01	14.27	15	PASS
CCV3	CCV	1	B	4.96	0.05	15	PASS
CCB3	CCB	1	B	0.01	16.38	15	<PQL
ICSA2	ICSA	1	B	0	15.46	15	<PQL
ICSAB2	ICSAB	1	B	1.03	1.11	15	PASS
RINSE	RINSE	1	B	0.01	4.75	15	PASS
CCV4	CCV	1	B	4.95	0.65	15	PASS
CCB4	CCB	1	B	0.01	13.19	15	PASS
CCV5	CCV	1	B	4.95	0.5	15	PASS
CCB5	CCB	1	B	0.01	11.92	15	PASS

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCV6	CCV	1	B	4.92	0.24	15	PASS
CCB6	CCB	1	B	0.01	9.51	15	PASS
ICSA3	ICSA	1	B	0	254.14	15	<PQL
ICSAB3	ICSAB	1	B	1.02	0.12	15	PASS
CCV7	CCV	1	B	4.58	0.04	15	PASS
CCB7	CCB	1	B	0.01	11.7	15	PASS
CaIBlk	IBLK	1	Ca	0	0.39	15	PASS
Standard1	ICAL	1	Ca	0.2	1	15	PASS
Standard2	ICAL	1	Ca	1	0.03	15	PASS
Standard3	ICAL	1	Ca	2	0.41	15	PASS
Standard4	ICAL	1	Ca	5	0.33	15	PASS
Standard5	ICAL	1	Ca	7.5	0.09	15	PASS
Standard6	ICAL	1	Ca	10	0.04	15	PASS
Standard7	ICAL	1	Ca	20	0.56	15	PASS
ICV	ICV	1	Ca	10.02	0.11	15	PASS
ICB	ICB	1	Ca	0	50.6	15	<PQL
LLICV1	CCV1	1	Ca	0.22	1.45	20	PASS
ICSA1	ICSA	1	Ca	445.14	0.29	15	PASS
ICSAB1	ICSAB	1	Ca	443.08	0.14	15	PASS
ICSA1	ICSA	1	Ca	443.87	0.17	15	PASS
ICSAB1	ICSAB	1	Ca	446.36	0.28	15	PASS
RINSE	RINSE	1	Ca	0.92	1.96	15	PASS
MB-106013	MBLK	1	Ca	0	30.02	15	<PQL
LCS1-106013	LCS	1	Ca	10.52	0.12	15	PASS
N062346-001B	SAMP	1	Ca	144.18	1.14	15	PASS
N062346-002B	SAMP	1	Ca	21.38	0.16	15	PASS
N062348-001C	SAMP	1	Ca	137.33	0.7	15	PASS
N062348-001C	SAMP	5	Ca	26.62	0.1	15	PASS
N062348-001C-PS	PS	1	Ca	145.1	0.39	15	PASS
N062348-001C-MS	MS	1	Ca	143.31	0.72	15	PASS
N062348-001C-MSD	MSD	1	Ca	145.06	0.34	15	PASS
CCV1	CCV	1	Ca	10.42	0.11	15	PASS
CCB1	CCB	1	Ca	0	20.74	15	<PQL
N062348-002C	SAMP	1	Ca	195.4	0.57	15	PASS
N062348-003C	SAMP	1	Ca	291.04	0.25	15	PASS
N062348-004C	SAMP	1	Ca	169.67	0.31	15	PASS
N062348-009C	SAMP	1	Ca	230.95	0.57	15	PASS
N062348-010C	SAMP	1	Ca	235.72	0.26	15	PASS
CCV2	CCV	1	Ca	10.84	0.78	15	PASS
CCB2	CCB	1	Ca	0	5.03	15	PASS
CCV3	CCV	1	Ca	11.18	0.04	15	PASS
CCB3	CCB	1	Ca	0	11.73	15	PASS

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA2	ICSA	1	Ca	490.15	0.61	15	PASS
ICSAB2	ICSAB	1	Ca	491.59	1.01	15	PASS
RINSE	RINSE	1	Ca	0.35	14.26	15	PASS
CCV4	CCV	1	Ca	11.31	0.63	15	PASS
CCB4	CCB	1	Ca	0	22.79	15	<PQL
CCV5	CCV	1	Ca	12.62	0.54	15	PASS
CCB5	CCB	1	Ca	0.01	8.44	15	PASS
CCV6	CCV	1	Ca	13.21	0.78	15	PASS
CCB6	CCB	1	Ca	0.01	9.31	15	PASS
ICSA3	ICSA	1	Ca	580.13	0.36	15	PASS
ICSAB3	ICSAB	1	Ca	584.03	0.14	15	PASS
CCV7	CCV	1	Ca	11.44	0.01	15	PASS
CCB7	CCB	1	Ca	0	13.5	15	PASS
CalBlk	IBLK	1	Fe	0	1.16	15	PASS
Standard1	ICAL	1	Fe	0.02	2.03	15	PASS
Standard2	ICAL	1	Fe	0.05	1.79	15	PASS
Standard3	ICAL	1	Fe	2	0.42	15	PASS
Standard4	ICAL	1	Fe	5	0.31	15	PASS
Standard5	ICAL	1	Fe	7.5	0.38	15	PASS
Standard6	ICAL	1	Fe	10	0.12	15	PASS
Standard7	ICAL	1	Fe	20	0.11	15	PASS
ICV	ICV	1	Fe	10.14	0.71	15	PASS
ICB	ICB	1	Fe	0	61.32	15	<PQL
LLICV1	CCV1	1	Fe	0.02	2.71	20	PASS
ICSA1	ICSA	1	Fe	172.44	0.09	15	PASS
ICSAB1	ICSAB	1	Fe	171.89	0.08	15	PASS
ICSA1	ICSA	1	Fe	172.17	0.07	15	PASS
ICSAB1	ICSAB	1	Fe	172.89	0.06	15	PASS
RINSE	RINSE	1	Fe	0.04	21.22	15	NR!
MB-106013	MBLK	1	Fe	0	28.64	15	<PQL
LCS1-106013	LCS	1	Fe	0.11	1.26	15	PASS
N062346-001B	SAMP	1	Fe	0.01	20.49	15	<PQL
N062346-002B	SAMP	1	Fe	-0.01	29.59	15	<PQL
N062348-001C	SAMP	1	Fe	-0.01	3.47	15	PASS
N062348-001C	SAMP	5	Fe	0	28.2	15	<PQL
N062348-001C-PS	PS	1	Fe	0.09	1.85	15	PASS
N062348-001C-MS	MS	1	Fe	0.09	1.33	15	PASS
N062348-001C-MSD	MSD	1	Fe	0.09	2.17	15	PASS
CCV1	CCV	1	Fe	10.36	0.02	15	PASS
CCB1	CCB	1	Fe	0	37.87	15	<PQL
N062348-002C	SAMP	1	Fe	0	43.42	15	<PQL
N062348-003C	SAMP	1	Fe	0.02	9.3	15	PASS

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N062348-004C	SAMP	1	Fe	0.4	0.95	15	PASS
N062348-009C	SAMP	1	Fe	0.02	2.92	15	PASS
N062348-010C	SAMP	1	Fe	0.02	10.6	15	PASS
CCV2	CCV	1	Fe	10.64	0.77	15	PASS
CCB2	CCB	1	Fe	0	37.24	15	<PQL
CCV3	CCV	1	Fe	10.87	0.13	15	PASS
CCB3	CCB	1	Fe	0.01	2.32	15	PASS
ICSA2	ICSA	1	Fe	186.35	0.09	15	PASS
ICSAB2	ICSAB	1	Fe	186.77	0.25	15	PASS
RINSE	RINSE	1	Fe	0.04	38.72	15	NR!
CCV4	CCV	1	Fe	10.95	0.59	15	PASS
CCB4	CCB	1	Fe	0.01	9.41	15	PASS
CCV5	CCV	1	Fe	11.87	0.52	15	PASS
CCB5	CCB	1	Fe	0.01	3.88	15	PASS
CCV6	CCV	1	Fe	12.16	0.12	15	PASS
CCB6	CCB	1	Fe	0.01	3.46	15	PASS
ICSA3	ICSA	1	Fe	212.06	0.13	15	PASS
ICSAB3	ICSAB	1	Fe	213.38	0.43	15	PASS
CCV7	CCV	1	Fe	10.8	0.13	15	PASS
CCB7	CCB	1	Fe	0	22.46	15	<PQL
CalBlk	IBLK	1	Mg	0	3.56	15	PASS
Standard1	ICAL	1	Mg	0.1	1.15	15	PASS
Standard2	ICAL	1	Mg	1	0.32	15	PASS
Standard3	ICAL	1	Mg	2	0.51	15	PASS
Standard4	ICAL	1	Mg	5	0.26	15	PASS
Standard5	ICAL	1	Mg	7.5	0.37	15	PASS
Standard6	ICAL	1	Mg	10	0.11	15	PASS
Standard7	ICAL	1	Mg	20	0.14	15	PASS
ICV	ICV	1	Mg	10.12	0.7	15	PASS
ICB	ICB	1	Mg	0.02	9.02	15	PASS
LLICV1	CCV1	1	Mg	0.12	3.01	20	PASS
ICSA1	ICSA	1	Mg	455.8	0.05	15	PASS
ICSAB1	ICSAB	1	Mg	458.19	0.04	15	PASS
ICSA1	ICSA	1	Mg	459.23	0.09	15	PASS
ICSAB1	ICSAB	1	Mg	457.93	0.08	15	PASS
RINSE	RINSE	1	Mg	0.05	32.82	15	<PQL
MB-106013	MBLK	1	Mg	-0.01	14.81	15	PASS
LCS1-106013	LCS	1	Mg	10.84	0.03	15	PASS
N062346-001B	SAMP	1	Mg	35.76	0.04	15	PASS
N062346-002B	SAMP	1	Mg	2.96	1.27	15	PASS
N062348-001C	SAMP	1	Mg	29.4	0.12	15	PASS
N062348-001C	SAMP	5	Mg	5.87	0.23	15	PASS

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N062348-001C-PS	PS	1	Mg	38.79	0.34	15	PASS
N062348-001C-MS	MS	1	Mg	38.5	0.09	15	PASS
N062348-001C-MSD	MSD	1	Mg	38.65	0.05	15	PASS
CCV1	CCV	1	Mg	10.36	0.08	15	PASS
CCB1	CCB	1	Mg	0.03	0.45	15	PASS
N062348-002C	SAMP	1	Mg	37.45	0.09	15	PASS
N062348-003C	SAMP	1	Mg	22.29	0.18	15	PASS
N062348-004C	SAMP	1	Mg	64.89	0.05	15	PASS
N062348-009C	SAMP	1	Mg	20.45	0.09	15	PASS
N062348-010C	SAMP	1	Mg	20.84	0.17	15	PASS
CCV2	CCV	1	Mg	10.58	0.73	15	PASS
CCB2	CCB	1	Mg	0.1	2.41	15	PASS
CCV3	CCV	1	Mg	10.84	0.07	15	PASS
CCB3	CCB	1	Mg	0.16	2.75	15	PASS
ICSA2	ICSA	1	Mg	494.95	0.09	15	PASS
ICSAB2	ICSAB	1	Mg	493.14	0.27	15	PASS
RINSE	RINSE	1	Mg	0.04	60.15	15	<PQL
CCV4	CCV	1	Mg	10.95	0.6	15	PASS
CCB4	CCB	1	Mg	0.2	1.63	15	PASS
CCV5	CCV	1	Mg	11.95	0.54	15	PASS
CCB5	CCB	1	Mg	0.23	1.08	15	PASS
CCV6	CCV	1	Mg	12.27	0.18	15	PASS
CCB6	CCB	1	Mg	0.15	1.69	15	PASS
ICSA3	ICSA	1	Mg	571.31	0.08	15	PASS
ICSAB3	ICSAB	1	Mg	573.2	0.61	15	PASS
CCV7	CCV	1	Mg	10.77	0.05	15	PASS
CCB7	CCB	1	Mg	0.05	2.51	15	PASS

RSD SUMMARY: 240115B

Instrument ID: ICP-02

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	K	0	11.74	15	PASS
Standard1	ICAL	1	K	0.1	5.96	15	PASS
Standard2	ICAL	1	K	1	1.06	15	PASS
Standard3	ICAL	1	K	5	1.09	15	PASS
Standard4	ICAL	1	K	10	0.85	15	PASS
Standard5	ICAL	1	K	20	1.75	15	PASS
Standard6	ICAL	1	K	40	0.42	15	PASS
ICV	ICV	1	K	9.91	0.47	15	PASS
ICB	ICB	1	K	-0.01	155.84	15	<PQL
LLICV1	CCV	1	K	0.49	4.46	20	PASS
ICSA1	ICSA	1	K	0	390.46	15	<PQL
ICSAB1	ICSAB	1	K	10.1	0.9	15	PASS
MB-106013	MBLK	1	K	-0.01	115.65	15	<PQL
LCS2-106013	LCS	1	K	19.07	0.4	15	PASS
N062346-001B	SAMP	5	K	2.71	0.81	15	PASS
N062346-002B	SAMP	5	K	1.01	2.59	15	PASS
N062346-001B	SAMP	25	K	0.55	2.5	15	PASS
N062346-001B	SAMP	125	K	0.1	21.84	15	<PQL
N062346-001B-PS	PS	5	K	22.28	0.82	15	PASS
N062346-001B-PS	PS	25	K	19.96	0.92	15	PASS
N062346-001B-MS2	MS	5	K	6.8	0.94	15	PASS
N062346-001B-MS2	MS	25	K	1.36	1.72	15	PASS
CCV1	CCV	1	K	9.94	0.38	15	PASS
CCB1	CCB	1	K	0.01	52.78	15	<PQL
N062346-001B-MSD2	MSD	5	K	6.92	1.03	15	PASS
N062346-001B-MSD2	MSD	25	K	2.14	1.07	15	PASS
CCV2	CCV	1	K	9.94	0.34	15	PASS
CCB2	CCB	1	K	0.03	72.06	15	<PQL
ICSA2	ICSA	1	K	0	122.34	15	<PQL
ICSAB2	ICSAB	1	K	9.85	0.28	15	PASS
CalBlk	IBLK	1	Na	0	5.09	15	PASS
Standard1	ICAL	1	Na	0.1	1.46	15	PASS
Standard2	ICAL	1	Na	1	0.83	15	PASS
Standard3	ICAL	1	Na	5	1.14	15	PASS
Standard4	ICAL	1	Na	10	0.81	15	PASS
Standard5	ICAL	1	Na	20	1.61	15	PASS
Standard6	ICAL	1	Na	40	0.48	15	PASS
ICV	ICV	1	Na	9.99	0.32	15	PASS
ICB	ICB	1	Na	0	871.72	15	<PQL
LLICV1	CCV	1	Na	0.5	1.05	20	PASS
ICSA1	ICSA	1	Na	-0.01	29.52	15	<PQL
ICSAB1	ICSAB	1	Na	10.23	0.97	15	PASS

RSD SUMMARY: 240115B

Instrument ID: ICP-02

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
MB-106013	MBLK	1	Na	0	39.87	15	<PQL
LCS2-106013	LCS	1	Na	19.16	0.5	15	PASS
N062346-001B	SAMP	5	Na	39.7	1.01	15	PASS
N062346-002B	SAMP	5	Na	29.61	0.89	15	PASS
N062346-001B	SAMP	25	Na	7.58	0.78	15	PASS
N062346-001B	SAMP	125	Na	1.44	1.3	15	PASS
N062346-001B-PS	PS	5	Na	53.87	0.73	15	PASS
N062346-001B-PS	PS	25	Na	26.28	0.87	15	PASS
N062346-001B-MS2	MS	5	Na	39.39	0.84	15	PASS
N062346-001B-MS2	MS	25	Na	7.73	0.72	15	PASS
CCV1	CCV	1	Na	9.99	0.3	15	PASS
CCB1	CCB	1	Na	0	60.66	15	<PQL
N062346-001B-MSD2	MSD	5	Na	40.36	0.82	15	PASS
N062346-001B-MSD2	MSD	25	Na	12.3	1.41	15	PASS
CCV2	CCV	1	Na	9.95	0.33	15	PASS
CCB2	CCB	1	Na	0.01	70.06	15	<PQL
ICSA2	ICSA	1	Na	-0.01	21.94	15	<PQL
ICSAB2	ICSAB	1	Na	9.83	0.16	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240113A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/13/2024	12:19:33 PM
2	Standard1	ICAL	1	01/13/2024	12:23:15 PM
3	Standard2	ICAL	1	01/13/2024	12:26:58 PM
4	Standard3	ICAL	1	01/13/2024	12:30:44 PM
5	Standard4	ICAL	1	01/13/2024	12:33:59 PM
6	Standard5	ICAL	1	01/13/2024	12:38:16 PM
7	Standard6	ICAL	1	01/13/2024	12:42:30 PM
8	Standard7	ICAL	1	01/13/2024	12:46:14 PM
310	ICV	ICV	1	01/13/2024	12:50:32 PM
1	ICB	ICB	1	01/13/2024	12:54:52 PM
2	LLICV1	CCV1	1	01/13/2024	12:58:36 PM
9	ICSA1	ICSA	1	01/13/2024	01:02:19 PM
10	ICSAB1	ICSAB	1	01/13/2024	01:07:37 PM
9	ICSA1	ICSA	1	01/13/2024	01:13:06 PM
10	ICSAB1	ICSAB	1	01/13/2024	01:18:23 PM
299	RINSE	RINSE	1	01/13/2024	01:23:41 PM
140	MB-106013	MBLK	1	01/13/2024	01:30:06 PM
141	LCS1-106013	LCS	1	01/13/2024	01:37:01 PM
142	N062346-001B	SAMP	1	01/13/2024	01:41:48 PM
143	N062346-002B	SAMP	1	01/13/2024	01:47:17 PM
144	N062348-001C	SAMP	1	01/13/2024	01:51:34 PM
145	N062348-001C	SAMP	5	01/13/2024	01:56:56 PM
146	N062348-001C-PS	PS	1	01/13/2024	02:00:44 PM
147	N062348-001C-MS	MS	1	01/13/2024	02:06:14 PM
148	N062348-001C-MSD	MSD	1	01/13/2024	02:11:37 PM
7	CCV1	CCV	1	01/13/2024	02:16:37 PM
1	CCB1	CCB	1	01/13/2024	02:20:24 PM
149	N062348-002C	SAMP	1	01/13/2024	02:24:09 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
150	N062348-003C	SAMP	1	01/13/2024	02:29:08 PM
151	N062348-004C	SAMP	1	01/13/2024	02:33:08 PM
152	N062348-009C	SAMP	1	01/13/2024	02:38:08 PM
153	N062348-010C	SAMP	1	01/13/2024	02:43:38 PM
154	MB-106014	MBLK	1	01/13/2024	02:49:09 PM
155	LCS-106014	LCS	1	01/13/2024	02:52:55 PM
156	N062351-001B	SAMP	1	01/13/2024	02:57:14 PM
157	N062351-001B	SAMP	5	01/13/2024	03:02:46 PM
158	N062351-001B-PS	PS	1	01/13/2024	03:06:34 PM
7	CCV2	CCV	1	01/13/2024	03:11:35 PM
1	CCB2	CCB	1	01/13/2024	03:15:52 PM
159	N062351-001B-MS	MS	1	01/13/2024	03:19:35 PM
160	N062351-001B-MSD	MSD	1	01/13/2024	03:24:36 PM
161	N062351-002B	SAMP	1	01/13/2024	03:29:36 PM
162	N062351-003B	SAMP	1	01/13/2024	03:34:28 PM
163	N062351-004D	SAMP	1	01/13/2024	03:39:52 PM
164	N062351-005D	SAMP	1	01/13/2024	03:45:14 PM
165	N062351-006D	SAMP	1	01/13/2024	03:50:36 PM
166	N062351-007D	SAMP	1	01/13/2024	03:56:06 PM
167	N062351-008D	SAMP	1	01/13/2024	04:01:29 PM
168	N062351-009D	SAMP	1	01/13/2024	04:06:51 PM
7	CCV3	CCV	1	01/13/2024	04:11:13 PM
1	CCB3	CCB	1	01/13/2024	04:14:58 PM
9	ICSA2	ICSA	1	01/13/2024	04:18:42 PM
10	ICSAB2	ICSAB	1	01/13/2024	04:23:59 PM
300	RINSE	RINSE	1	01/13/2024	04:29:17 PM
169	N062351-010D	SAMP	1	01/13/2024	04:33:07 PM
170	N062351-011D	SAMP	1	01/13/2024	04:38:30 PM
171	N062351-012D	SAMP	1	01/13/2024	04:42:50 PM
172	N062351-013D	SAMP	1	01/13/2024	04:47:10 PM
173	N062351-014D	SAMP	1	01/13/2024	04:50:58 PM
174	MB-106020	MBLK	1	01/13/2024	04:55:20 PM
175	LCS-106020	LCS	1	01/13/2024	04:59:08 PM
176	N062350-003B	SAMP	1	01/13/2024	05:03:58 PM
177	N062350-004D	SAMP	1	01/13/2024	05:09:21 PM
7	CCV4	CCV	1	01/13/2024	05:14:44 PM
1	CCB4	CCB	1	01/13/2024	05:19:00 PM
178	N062350-005D	SAMP	1	01/13/2024	05:22:44 PM
179	N062350-006D	SAMP	1	01/13/2024	05:28:15 PM
180	N062350-008D	SAMP	1	01/13/2024	05:33:46 PM
181	N062350-009D	SAMP	1	01/13/2024	05:39:09 PM
182	N062350-010E	SAMP	1	01/13/2024	05:44:31 PM
183	N062350-011E	SAMP	1	01/13/2024	05:48:52 PM
184	N062350-012E	SAMP	1	01/13/2024	05:53:12 PM
185	N062350-013E	SAMP	1	01/13/2024	05:57:34 PM
186	N062350-014E	SAMP	1	01/13/2024	06:01:57 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
187	N062350-015E	SAMP	1	01/13/2024	06:06:59 PM
7	CCV5	CCV	1	01/13/2024	06:12:01 PM
1	CCB5	CCB	1	01/13/2024	06:16:17 PM
188	N062350-018D	SAMP	1	01/13/2024	06:20:01 PM
189	N062350-018D	SAMP	5	01/13/2024	06:25:02 PM
190	N062350-018D-PS	PS	1	01/13/2024	06:29:22 PM
191	N062350-018DMS	MS	1	01/13/2024	06:34:24 PM
192	N062350-018DMSD	MSD	1	01/13/2024	06:39:26 PM
193	N062350-019F	SAMP	1	01/13/2024	06:44:27 PM
194	N062350-020F	SAMP	1	01/13/2024	06:49:28 PM
7	CCV6	CCV	1	01/13/2024	06:54:30 PM
1	CCB6	CCB	1	01/13/2024	06:58:46 PM
9	ICSA3	ICSA	1	01/13/2024	07:02:29 PM
10	ICSAB3	ICSAB	1	01/13/2024	07:07:47 PM
7	CCV7	CCV	1	01/13/2024	07:46:24 PM
1	CCB7	CCB	1	01/13/2024	07:50:08 PM
174	MB-106020	MBLK	1	01/13/2024	07:53:25 PM
175	LCS-106020	LCS	1	01/13/2024	07:57:12 PM
176	N062350-003B	SAMP	1	01/13/2024	08:01:59 PM
177	N062350-004D	SAMP	1	01/13/2024	08:07:29 PM
178	N062350-005D	SAMP	1	01/13/2024	08:12:59 PM
179	N062350-006D	SAMP	1	01/13/2024	08:18:30 PM
180	N062350-008D	SAMP	1	01/13/2024	08:23:59 PM
181	N062350-009D	SAMP	1	01/13/2024	08:28:51 PM
182	N062350-010E	SAMP	1	01/13/2024	08:34:13 PM
183	N062350-011E	SAMP	1	01/13/2024	08:38:34 PM

INJECTION LOG: 240115B

Instrument ID: ICP-02

STANDARD CODE	
Standard1	MWST-240105D, 0.025<50mL
Standard2	MWST-240105D, 0.25<50mL
Standard3	MWST-240105D, 1.25<50mL
Standard4	MWST-240105D, 2.5<50mL
Standard5	MWST-240105D, 5<50mL
Standard6	MWST-240105D, 10<50mL
ICV	MWST-231222A
CCV	MWST-240105D, 2.5<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105E
Int. Std. (Sc):	MWST-240105B
PS Spike	MSST-231025E/231025F/231130A

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/15/2024	12:33:33 PM
11	Standard1	ICAL	1	01/15/2024	12:36:28 PM
12	Standard2	ICAL	1	01/15/2024	12:39:21 PM
13	Standard3	ICAL	1	01/15/2024	12:42:14 PM
14	Standard4	ICAL	1	01/15/2024	12:45:40 PM
15	Standard5	ICAL	1	01/15/2024	12:49:05 PM
16	Standard6	ICAL	1	01/15/2024	12:52:32 PM
17	ICV	ICV	1	01/15/2024	12:55:11 PM
1	ICB	ICB	1	01/15/2024	12:58:37 PM
18	LLICV1	CCV	1	01/15/2024	01:01:31 PM
19	ICSA1	ICSA	1	01/15/2024	01:04:27 PM
20	ICSAB1	ICSAB	1	01/15/2024	01:07:23 PM
23	MB-106013	MBLK	1	01/15/2024	01:10:50 PM
24	LCS2-106013	LCS	1	01/15/2024	01:16:02 PM
25	N062346-001B	SAMP	5	01/15/2024	01:19:29 PM
26	N062346-002B	SAMP	5	01/15/2024	01:22:23 PM
27	N062346-001B	SAMP	25	01/15/2024	01:25:16 PM
28	N062346-001B	SAMP	125	01/15/2024	01:28:11 PM
29	N062346-001B-PS	PS	5	01/15/2024	01:31:05 PM
30	N062346-001B-PS	PS	25	01/15/2024	01:35:00 PM
31	N062346-001B-MS2	MS	5	01/15/2024	01:37:55 PM
32	N062346-001B-MS2	MS	25	01/15/2024	01:40:50 PM
14	CCV1	CCV	1	01/15/2024	01:43:45 PM
1	CCB1	CCB	1	01/15/2024	01:47:11 PM
33	N062346-001B-MSD2	MSD	5	01/15/2024	01:50:04 PM
34	N062346-001B-MSD2	MSD	25	01/15/2024	01:53:01 PM
14	CCV2	CCV	1	01/15/2024	01:55:57 PM
1	CCB2	CCB	1	01/15/2024	01:59:22 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
19	ICSA2	ICSA	1	01/15/2024	02:02:16 PM
20	ICSAB2	ICSAB	1	01/15/2024	02:05:13 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 4:00:00 PM

Reviewed/ Date: M Rocha 2/6/2024

Page: 1 of 2

Prep End Date: 1/12/2024 8:00:00 PM

Initials/ Date: _____
for

Prep Factor Units Temp. (°C): Location:

Prep Batch 106013 Prep Code:3010_W DISS

Technician: Diane Jetajobe

mL / mL

95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS1-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
LCS2-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C-MS1	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C-MSD1	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium		0.05
MSST-231025F	Potassium		0.05
MSST-231130A	Strontium		0.125
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 4:00:00 PM

Prep End Date: 1/12/2024 8:00:00 PM

Prep Batch 106013 Prep Code:3010_W_DISS

Reviewed/ Date: M Rocha 2/6/2024
for _____

Initials/ Date: _____

Technician: **Diane Jetajobe**

Page:2 of 2

Prep Factor Units Temp. (°C): Location:
mL / mL 95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062348-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium		0.05
MSST-231025F	Potassium		0.05
MSST-231130A	Strontium		0.125
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240113A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Boron								
CalBlk	01/13/2024	12:19:33 PM	B	249.677	548	0.00	mg/L	
Standard1	01/13/2024	12:23:15 PM	B	249.677	2787	0.1	mg/L	
Standard3	01/13/2024	12:30:44 PM	B	249.677	26705	1.0	mg/L	
Standard4	01/13/2024	12:33:59 PM	B	249.677	67305	2.5	mg/L	
Standard5	01/13/2024	12:38:16 PM	B	249.677	102337	3.75	mg/L	
Standard6	01/13/2024	12:42:30 PM	B	249.677	136842	5.0	mg/L	
Standard7	01/13/2024	12:46:14 PM	B	249.677	277850	10.0	mg/L	1.0000
Magnesium								
CalBlk	01/13/2024	12:19:33 PM	Mg	279.077	365	0.00	mg/L	
Standard1	01/13/2024	12:23:15 PM	Mg	279.077	813	0.1	mg/L	
Standard2	01/13/2024	12:26:58 PM	Mg	279.077	7396	1.00	mg/L	
Standard3	01/13/2024	12:30:44 PM	Mg	279.077	14860	2.0	mg/L	
Standard4	01/13/2024	12:33:59 PM	Mg	279.077	36632	5.0	mg/L	
Standard5	01/13/2024	12:38:16 PM	Mg	279.077	55345	7.5	mg/L	
Standard6	01/13/2024	12:42:30 PM	Mg	279.077	73379	10.0	mg/L	
Standard7	01/13/2024	12:46:14 PM	Mg	279.077	145961	20.0	mg/L	1.0000
Calcium								
CalBlk	01/13/2024	12:19:33 PM	Ca	317.933	10391	0.00	mg/L	
Standard1	01/13/2024	12:23:15 PM	Ca	317.933	24502	0.2	mg/L	
Standard2	01/13/2024	12:26:58 PM	Ca	317.933	110195	1.00	mg/L	
Standard3	01/13/2024	12:30:44 PM	Ca	317.933	222755	2.0	mg/L	
Standard4	01/13/2024	12:33:59 PM	Ca	317.933	554641	5.0	mg/L	
Standard5	01/13/2024	12:38:16 PM	Ca	317.933	831779	7.5	mg/L	
Standard6	01/13/2024	12:42:30 PM	Ca	317.933	1107807	10.0	mg/L	
Standard7	01/13/2024	12:46:14 PM	Ca	317.933	2218560	20.0	mg/L	1.0000
Iron								
CalBlk	01/13/2024	12:19:33 PM	Fe	273.952	540	0.00	mg/L	
Standard1	01/13/2024	12:23:15 PM	Fe	273.952	374	0.02	mg/L	
Standard2	01/13/2024	12:26:58 PM	Fe	273.952	926	0.05	mg/L	
Standard3	01/13/2024	12:30:44 PM	Fe	273.952	34514	2.0	mg/L	
Standard4	01/13/2024	12:33:59 PM	Fe	273.952	85609	5.0	mg/L	
Standard5	01/13/2024	12:38:16 PM	Fe	273.952	128926	7.5	mg/L	
Standard6	01/13/2024	12:42:30 PM	Fe	273.952	171403	10.0	mg/L	
Standard7	01/13/2024	12:46:14 PM	Fe	273.952	340259	20.0	mg/L	1.0000

INITIAL CALIBRATION SUMMARY: 240115B

Instrument ID: ICP-02

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Sodium								
CalBlk	01/15/2024	12:33:33 PM	Na	589.61	142	0.00	mg/L	
Standard1	01/15/2024	12:36:28 PM	Na	589.61	529	0.1000	mg/L	
Standard2	01/15/2024	12:39:21 PM	Na	589.61	4902	1.000	mg/L	
Standard3	01/15/2024	12:42:14 PM	Na	589.61	25026	5.000	mg/L	
Standard4	01/15/2024	12:45:40 PM	Na	589.61	48087	10.000	mg/L	
Standard5	01/15/2024	12:49:05 PM	Na	589.61	94318	20.000	mg/L	
Standard6	01/15/2024	12:52:32 PM	Na	589.61	192739	40.000	mg/L	1.0000
Potassium								
CalBlk	01/15/2024	12:33:33 PM	K	766.479	-298	0.00	mg/L	
Standard1	01/15/2024	12:36:28 PM	K	766.479	193	0.1000	mg/L	
Standard2	01/15/2024	12:39:21 PM	K	766.479	1701	1.000	mg/L	
Standard3	01/15/2024	12:42:14 PM	K	766.479	8608	5.000	mg/L	
Standard4	01/15/2024	12:45:40 PM	K	766.479	16551	10.000	mg/L	
Standard5	01/15/2024	12:49:05 PM	K	766.479	32666	20.000	mg/L	
Standard6	01/15/2024	12:52:32 PM	K	766.479	66860	40.000	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621554						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10140.323	20	10000	0	101	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ZZZZZZ	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621556						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	19.970	20	20.00	0	99.8	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10363.373	20	10000	0	104	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10637.135	20	10000	0	106	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10868.794	20	10000	0	109	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: ICV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5.007	0.10	5.000	0	100	90	110				
Calcium	10.020	0.50	10.00	0	100	90	110				
Iron	10.140	0.020	10.00	0	101	90	110				
Magnesium	10.119	0.10	10.00	0	101	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: ZZZZZ	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.110	0.10	0.1000	0	110	80	120				
Calcium	0.224	0.50	0.2000	0	112	80	120				
Iron	0.020	0.020	0.02000	0	99.8	80	120				
Magnesium	0.116	0.10	0.1000	0	116	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5.019	0.10	5.000	0	100	90	110				
Calcium	10.418	0.50	10.00	0	104	90	110				
Iron	10.363	0.020	10.00	0	104	90	110				
Magnesium	10.359	0.10	10.00	0	104	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.986	0.10	5.000	0	99.7	90	110				
Calcium	10.835	0.50	10.00	0	108	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062346
 Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10.637	0.020	10.00	0	106	90	110				
Magnesium	10.577	0.10	10.00	0	106	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.965	0.10	5.000	0	99.3	90	110				
Calcium	11.184	0.50	10.00	0	112	90	110				S
Iron	10.869	0.020	10.00	0	109	90	110				
Magnesium	10.835	0.10	10.00	0	108	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.954	0.10	5.000	0	99.1	90	110				
Calcium	11.314	0.50	10.00	0	113	90	110				S
Iron	10.954	0.020	10.00	0	110	90	110				
Magnesium	10.954	0.10	10.00	0	110	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621759						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.946	0.10	5.000	0	98.9	90	110				
Calcium	12.624	0.50	10.00	0	126	90	110				S
Iron	11.871	0.020	10.00	0	119	90	110				S
Magnesium	11.954	0.10	10.00	0	120	90	110				S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

%Rec of several analytes in several CCVs failed, high bias. However, samples affected are reported within CCV1/CCB1.

Mamy 2/5/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCV	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.915	0.10	5.000	0	98.3	90	110				
Calcium	13.214	0.50	10.00	0	132	90	110				S
Iron	12.159	0.020	10.00	0	122	90	110				S
Magnesium	12.271	0.10	10.00	0	123	90	110				S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICV	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	9.908	0.50	10.00	0	99.1	90	110				
Sodium	9.987	0.50	10.00	0	99.9	90	110				

Sample ID: LLICV1	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: CCV	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.494	0.50	0.5000	0	98.8	80	120				
Sodium	0.500	0.50	0.5000	0	99.9	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: CCV	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	9.944	0.50	10.00	0	99.4	90	110				
Sodium	9.993	0.50	10.00	0	99.9	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: CCV	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	9.945	0.50	10.00	0	99.4	90	110				
Sodium	9.945	0.50	10.00	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621555						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.548258 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.145 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.370 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.138 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: ICB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Boron	0.013	0.10
Calcium	0.001	0.50
Iron	-0.000548	0.020
Magnesium	0.020	0.10

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Boron	0.011	0.10
Calcium	0.003	0.50
Iron	0.003	0.020
Magnesium	0.033	0.10

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Boron	0.008	0.10
Calcium	0.004	0.50
Iron	0.002	0.020
Magnesium	0.100	0.10

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364						
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Boron	0.006	0.10
Calcium	0.004	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621735
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	0.005	0.020			
Magnesium	0.156	0.10			

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621748
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Boron	0.006	0.10			
Calcium	0.004	0.50			
Iron	0.007	0.020			
Magnesium	0.196	0.10			

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621760
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Boron	0.007	0.10			
Calcium	0.006	0.50			
Iron	0.014	0.020			
Magnesium	0.230	0.10			

Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180364
Client ID: CCB	Batch ID: R180364	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621769
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Boron	0.013	0.10			
Calcium	0.007	0.50			
Iron	0.008	0.020			
Magnesium	0.150	0.10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICB	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.005865	0.50									
Sodium	0.000238	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: CCB	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.014	0.50									
Sodium	0.003	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: CCB	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.025	0.50									
Sodium	0.006	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	520733.591	50	500000	0	104	80	120				
Calcium	443870.703	500	500000	0	88.8	80	120				
Iron	172170.323	20	200000	0	86.1	80	120				
Magnesium	459230.113	100	500000	0	91.8	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	515244.953	50	500000	0	103	80	120				
Calcium	446361.032	500	500000	0	89.3	80	120				
Iron	172886.146	20	200000	0	86.4	80	120				
Magnesium	457929.657	100	500000	0	91.6	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	490250.244	50	500000	0	98.1	80	120				
Calcium	490150.358	500	500000	0	98.0	80	120				
Iron	186351.809	20	200000	0	93.2	80	120				
Magnesium	494953.872	100	500000	0	99.0	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	493116.676	50	500000	0	98.6	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSAB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	491592.436	500	500000	0	98.3	80	120				
Iron	186772.592	20	200000	0	93.4	80	120				
Magnesium	493141.661	100	500000	0	98.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSA		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621699		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	520.734	0.050	500.0	0	104	80	120					
Boron	-0.004791	0.10										
Calcium	443.871	0.50	500.0	0	88.8	80	120					
Iron	172.170	0.020	200.0	0	86.1	80	120					
Magnesium	459.230	0.10	500.0	0	91.8	80	120					

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSA		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621700		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	515.245	0.050	500.0	0	103	80	120					
Boron	1.033	0.10	1.000	0	103	80	120					
Calcium	446.361	0.50	500.0	0	89.3	80	120					
Iron	172.886	0.020	200.0	0	86.4	80	120					
Magnesium	457.930	0.10	500.0	0	91.6	80	120					

Sample ID: ICSA2		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSA		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621736		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	490.250	0.050	500.0	0	98.1	80	120					
Boron	-0.003316	0.10										
Calcium	490.150	0.50	500.0	0	98.0	80	120					
Iron	186.352	0.020	200.0	0	93.2	80	120					
Magnesium	494.954	0.10	500.0	0	99.0	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSAB		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621737		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	493.117	0.050	500.0	0	98.6	80	120					
Boron	1.034	0.10	1.000	0	103	80	120					
Calcium	491.592	0.50	500.0	0	98.3	80	120					
Iron	186.773	0.020	200.0	0	93.4	80	120					
Magnesium	493.142	0.10	500.0	0	98.6	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSA		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621770		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	476.663	0.050	500.0	0	95.3	80	120					
Boron	-0.000282	0.10										
Calcium	580.133	0.50	500.0	0	116	80	120					
Iron	212.062	0.020	200.0	0	106	80	120					
Magnesium	571.310	0.10	500.0	0	114	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364		
Client ID: ICSAB		Batch ID: R180364		TestNo: EPA 6010B				Analysis Date: 1/13/2024		SeqNo: 5621771		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	477.318	0.050	500.0	0	95.5	80	120					
Boron	1.020	0.10	1.000	0	102	80	120					
Calcium	584.027	0.50	500.0	0	117	80	120					
Iron	213.385	0.020	200.0	0	107	80	120					
Magnesium	573.200	0.10	500.0	0	115	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICSA	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.002721	0.50									
Sodium	-0.007974	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICSA	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	10.101	0.50	10.00	0	101	80	120				
Sodium	10.231	0.50	10.00	0	102	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICSA	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627167						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.003	0.50									
Sodium	-0.006949	0.50									

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 180410						
Client ID: ICSA	Batch ID: R180410	TestNo: EPA 6010B		Analysis Date: 1/15/2024	SeqNo: 5627168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	9.854	0.50	10.00	0	98.5	80	120				
Sodium	9.832	0.50	10.00	0	98.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	100.7	65-125	PASS
Standard2	ICAL	1	0.99	99.06	65-125	PASS
Standard3	ICAL	1	1	99.83	65-125	PASS
Standard4	ICAL	1	0.99	98.97	65-125	PASS
Standard5	ICAL	1	0.98	97.98	65-125	PASS
Standard6	ICAL	1	0.98	97.65	65-125	PASS
Standard7	ICAL	1	0.96	95.52	65-125	PASS
ICV	ICV	1	0.97	96.95	65-125	PASS
ICB	ICB	1	1.01	100.66	65-125	PASS
LLICV1	CCV1	1	1	100.04	65-125	PASS
ICSA1	ICSA	1	0.84	84.14	65-125	PASS
ICSAB1	ICSAB	1	0.84	84.14	65-125	PASS
ICSA1	ICSA	1	0.84	84.12	65-125	PASS
ICSAB1	ICSAB	1	0.84	83.98	65-125	PASS
RINSE	RINSE	1	1.07	106.74	65-125	PASS
MB-106013	MBLK	1	0.99	99.48	65-125	PASS
LCS1-106013	LCS	1	0.94	94.48	65-125	PASS
N062346-001B	SAMP	1	0.86	86.47	65-125	PASS
N062346-002B	SAMP	1	0.94	93.65	65-125	PASS
N062348-001C	SAMP	1	0.85	85	65-125	PASS
N062348-001C	SAMP	5	0.96	96.03	65-125	PASS
N062348-001C-PS	PS	1	0.88	88.49	65-125	PASS
N062348-001C-MS	MS	1	0.92	92	65-125	PASS
N062348-001C-MSD	MSD	1	0.91	91.41	65-125	PASS
CCV1	CCV	1	1.01	101.26	65-125	PASS
CCB1	CCB	1	1.05	104.75	65-125	PASS
N062348-002C	SAMP	1	0.89	88.65	65-125	PASS
N062348-003C	SAMP	1	0.81	81.03	65-125	PASS
N062348-004C	SAMP	1	0.87	87.39	65-125	PASS
N062348-009C	SAMP	1	0.9	89.98	65-125	PASS
N062348-010C	SAMP	1	0.91	91.37	65-125	PASS
CCV2	CCV	1	1.04	104.13	65-125	PASS
CCB2	CCB	1	1.09	109.02	65-125	PASS
CCV3	CCV	1	1	100.3	65-125	PASS
CCB3	CCB	1	1.03	103.06	65-125	PASS
ICSA2	ICSA	1	0.88	87.61	65-125	PASS
ICSAB2	ICSAB	1	0.87	87.38	65-125	PASS
RINSE	RINSE	1	1.33	133.14	65-125	NR!
CCV4	CCV	1	0.99	98.73	65-125	PASS
CCB4	CCB	1	1.01	100.85	65-125	PASS

INTERNAL STANDARD: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCV5	CCV	1	0.98	98.34	65-125	PASS
CCB5	CCB	1	1	100.22	65-125	PASS
CCV6	CCV	1	0.93	93.47	65-125	PASS
CCB6	CCB	1	0.96	95.93	65-125	PASS
ICSA3	ICSA	1	0.83	83.28	65-125	PASS
ICSAB3	ICSAB	1	0.84	83.67	65-125	PASS
CCV7	CCV	1	0.96	96.01	65-125	PASS
CCB7	CCB	1	0.98	98.34	65-125	PASS

INTERNAL STANDARD: 240115B

Instrument ID: ICP-02

Sample Name	Type	DF	Scandium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	0.94	94.1	65-125	PASS
Standard2	ICAL	1	0.92	92.32	65-125	PASS
Standard3	ICAL	1	0.92	92.27	65-125	PASS
Standard4	ICAL	1	0.93	93.04	65-125	PASS
Standard5	ICAL	1	0.92	92.49	65-125	PASS
Standard6	ICAL	1	0.92	91.95	65-125	PASS
ICV	ICV	1	0.94	93.8	65-125	PASS
ICB	ICB	1	0.98	98.35	65-125	PASS
LLICV1	CCV	1	0.93	93.26	65-125	PASS
ICSA1	ICSA	1	0.94	94.15	65-125	PASS
ICSAB1	ICSAB	1	0.92	91.56	65-125	PASS
MB-106013	MBLK	1	0.94	94.08	65-125	PASS
LCS2-106013	LCS	1	0.92	91.59	65-125	PASS
N062346-001B	SAMP	5	0.9	90.22	65-125	PASS
N062346-002B	SAMP	5	0.93	92.87	65-125	PASS
N062346-001B	SAMP	25	0.92	92.19	65-125	PASS
N062346-001B	SAMP	125	0.92	92.48	65-125	PASS
N062346-001B-PS	PS	5	0.89	89.1	65-125	PASS
N062346-001B-PS	PS	25	0.9	89.97	65-125	PASS
N062346-001B-MS2	MS	5	0.9	90.37	65-125	PASS
N062346-001B-MS2	MS	25	0.93	92.58	65-125	PASS
CCV1	CCV	1	0.93	92.9	65-125	PASS
CCB1	CCB	1	0.99	99.42	65-125	PASS
N062346-001B-MSD2	MSD	5	0.92	92.47	65-125	PASS
N062346-001B-MSD2	MSD	25	0.93	93.47	65-125	PASS
CCV2	CCV	1	0.94	93.92	65-125	PASS
CCB2	CCB	1	1	99.79	65-125	PASS
ICSA2	ICSA	1	0.97	97.06	65-125	PASS
ICSAB2	ICSAB	1	0.94	94.12	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062346
Test Method: EPA 6010B
Analysis Date: 1/13/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106013

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062348-001C DT 5x	Iron	Fe	µg/L	0	NA	0		10

Reviewed by:

d/Rocha 2/6/2024

Note: NA - Not Applicable

02/01/24 22:51

DT_EPA 6010B_N062346_106013

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062346
 Test Method: EPA 6010B
 Analysis Date: 1/13/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 106013

Instrument ID: ICP-03
 Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to B. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062348-001C DT 5x	Boron	B	mg/L	0.5137895	NA	0.5350649	3.98%	10
N062348-001C DT 5x	Calcium	Ca	mg/L	133.1104	PASS	137.3335	3.08%	10
N062348-001C DT 5x	Magnesium	Mg	mg/L	29.34538	PASS	29.4018	0.19%	10

Reviewed by:

d/Recha 2/6/2024

Note: NA - Not Applicable

02/05/24 16:53

DT_EPA 6010B_N062346_106013

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062346
Test Method: EPA 6010B
Analysis Date: 1/15/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106013

Instrument ID: ICP-02
Instrument Description: Perkin Elmer Optima 7300DV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Na. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062346-001B DT 25x	Potassium	K	mg/L	13.68183	PASS	13.5666	0.85%	10
N062346-001B DT 125x	Sodium	Na	mg/L	180.1037	NA	189.5488	4.98%	10

Reviewed by:

d/Rocha 2/6/2024

Note: NA - Not Applicable

02/05/24 16:56

DT_EPA 6010B_N062346_106013

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062346
 Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N062348-001C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/13/2024	SeqNo: 5621567							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	92.728	20	100.0	0	92.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: N062348-001C-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180364	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024				SeqNo: 5621707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.299	0.10	5.000	0.5351	115	80	120				
Calcium	145.097	0.50	10.00	137.3	77.6	80	120				S
Magnesium	38.786	0.10	10.00	29.40	93.8	80	120				

Sample ID: N062346-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180410	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024				SeqNo: 5627157	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	111.414	2.5	100.0	13.57	97.8	80	120				

Sample ID: N062346-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 180410	
Client ID: ZZZZZZ		Batch ID: 106013		TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/15/2024				SeqNo: 5627158	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	657.036	12	500.0	189.5	93.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucão / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Method Detection Limit**Analytical Method:** EPA 6010B / 200.7

Digestion Method: EPA 3010A

Date of Analysis: 6/22,24,30/2021

Instrument Name: ICP2

Analysts: DBJ

Matrix: Water

25 mL

Units: mg/L

Analyte	1	2	3	4	5	6	7	SD	Ave	AMT SPIKED	MDLs	PQL
Potassium	0.13348	0.13397	0.12506	0.12108	0.13408	0.09107	0.06999	0.02517	0.11553	0.1000	0.07902	0.5
Sodium	0.09937	0.09005	0.09138	0.12202	0.10604	0.13761	0.13949	0.02087	0.11228	0.1000	0.06553	0.5
Strontium	0.0299	0.02938	0.02907	0.03172	0.03136	0.0304	0.03017	0.00097	0.03029	0.0250	0.00306	0.05

Method Detection Limit - Blank

Start Date: 6/1/2019

End Date: 6/30/2021

*Note: MDL value is from Method Blank (MB) results pooled from June 1, 2019 to June 30, 2021.

Analyte	MDLb
Potassium	0.1388
Sodium	0.3400
Strontium	-0.0004


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EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106016
 ASSET #: N062346

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 % Rec of As in LLICV failed. However, % rec passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 1/26/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Chromium concentration, in ug/L in the original sample as follows:

$$\text{Chromium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062346-001B**, the concentration in ug/L is calculated as follows:


$$\text{Chromium, ug/L} = 17.6581 * 1 * (25 / 25)$$

$$\text{Chromium, ug/L} = 17.6581$$

Reporting results in two significant figures,

$$\text{Chromium, ug/L} = 18$$

Reviewed by:

 2/8/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	25.648	15	<PQL	0.07	16.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.52	3.609	15	PASS	0.43	4.607	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	1.673	15	PASS	4.68	1.065	15	PASS
Std4-10/100 ppb	ICAL	1	9.53	2.225	15	PASS	9.56	0.903	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.75	1.428	15	PASS	19.68	0.76	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.91	0.546	15	PASS	39.66	0.895	15	PASS
Std7-100/1000 ppb	ICAL	1	99.09	1.327	15	PASS	99.66	1.083	15	PASS
Std8-200/2000 ppb	ICAL	1	200.53	0.728	15	PASS	200.3	2.039	15	PASS
ICV	ICV	1	10.12	0.952	15	PASS	9.9	1.69	15	PASS
ICB	ICB	1	0.01	43.447	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.03	2.759	20	PASS	0.99	1.447	20	PASS
MLCCV	CCV	1	19.61	1.144	15	PASS	19.81	0.366	15	PASS
ICSA1	ICSA	1	0.01	39.492	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.37	1.167	15	PASS	20.15	0.717	15	PASS
CCV1	CCV	1	20.12	0.896	15	PASS	19.93	0.676	15	PASS
CCB1	CCB	1	0.01	62.255	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.89	0.649	15	PASS	19.77	1.337	15	PASS
CCB2	CCB	1	0	58.945	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.16	0.387	15	PASS	19.62	1.769	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	142.129	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.36	0.218	15	PASS	20.09	1.583	15	PASS
CCV4	CCV	1	20.04	2.097	15	PASS	19.78	1.476	15	PASS
CCB4	CCB	1	0	312.808	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.32	0.319	15	PASS	19.76	1.556	15	PASS
CCB5	CCB	1	0	808.518	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.04	0.457	15	PASS	19.71	1.821	15	PASS
CCB6	CCB	1	0.01	37.091	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	1404.133	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.55	0.625	15	PASS	20.29	2.039	15	PASS
CCV7	CCV	1	19.89	0.546	15	PASS	19.47	0.459	15	PASS
CCB7	CCB	1	0.01	47.108	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	20.27	2.039	15	PASS	19.76	1.081	15	PASS
CCB8	CCB	1	0	25.812	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	20.22	2.36	15	PASS	19.75	0.211	15	PASS
CCB9	CCB	1	0.01	82.314	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0	123.06	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.64	1.811	15	PASS	19.99	1.708	15	PASS
MB-106016	MBLK	1	0	118.571	15	<PQL	<0.000	N/A	15	<PQL
LCS-106016	LCS	1	9.84	0.673	15	PASS	9.42	1.631	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	98.83	0.444	15	PASS	17.66	2.153	15	PASS
N062346-002B	SAMP	1	29.83	1.045	15	PASS	25.62	1.114	15	PASS
N062346-002B	SAMP	5	6.5	2.394	15	PASS	5.28	0.768	15	PASS
N062346-002B-PS	PS	1	38.6	0.785	15	PASS	35.29	0.463	15	PASS
N062346-002B-MS	MS	1	39.89	0.263	15	PASS	35.22	0.579	15	PASS
N062346-002B-MSD	MSD	1	40	1.505	15	PASS	35.26	0.681	15	PASS
N062348-001C	SAMP	1	31.45	0.677	15	PASS	494.18	0.93	15	PASS
CCV10	CCV	1	20.21	1.562	15	PASS	19.63	1.453	15	PASS
CCB10	CCB	1	0.01	110.563	15	<PQL	<0.000	N/A	15	<PQL
N062348-002C	SAMP	1	33.24	1.332	15	PASS	1698.89	1.196	15	PASS
N062348-003C	SAMP	1	25.06	1.38	15	PASS	2206.44	1.193	15	PASS
N062348-004C	SAMP	1	66.95	0.646	15	PASS	0.97	3.706	15	PASS
N062348-006B	SAMP	1	30.12	1.133	15	PASS	15834.31	1.743	15	PASS
N062348-007B	SAMP	1	105.22	1.074	15	PASS	228.23	2.059	15	PASS
N062348-008B	SAMP	1	107.15	0.749	15	PASS	228.63	0.936	15	PASS
N062348-009C	SAMP	1	35.25	1.396	15	PASS	0.76	6.23	15	PASS
N062348-010C	SAMP	1	35.65	0.383	15	PASS	0.69	4.28	15	PASS
CCV11	CCV	1	20.25	0.556	15	PASS	20.04	1.303	15	PASS
CCB11	CCB	1	0.01	16.808	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0	80.329	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.66	1.354	15	PASS	20.3	0.771	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				66 Zn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	15.956	15	<PQL	0.43	4.408	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.48	4.305	15	PASS	1.73	7.229	15	PASS
Std3-5/50 ppb	ICAL	1	4.92	1.387	15	PASS	5.5	4.552	15	PASS
Std4-10/100 ppb	ICAL	1	9.64	1.803	15	PASS	9.14	2.253	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	20	0.436	15	PASS	20.94	1.143	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.45	2.407	15	PASS	52.78	1.804	15	PASS
Std7-100/1000 ppb	ICAL	1	100.17	0.398	15	PASS	97.94	1.806	15	PASS
Std8-200/2000 ppb	ICAL	1	200.05	1.683	15	PASS	198.41	0.496	15	PASS
ICV	ICV	1	100.53	0.53	15	PASS	97.33	1.152	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	0.54	2.016	20	PASS	10.04	3.76	20	PASS
MLCCV	CCV	1	20.19	0.74	15	PASS	20.49	3.065	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.27	0.333	15	PASS	19.47	1.78	15	PASS
CCV1	CCV	1	19.99	0.923	15	PASS	20.29	1.134	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	20.2	2.21	15	PASS	20.42	2.732	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.7	1.322	15	PASS	19.35	1.662	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.37	1.58	15	PASS	19.17	0.888	15	PASS
CCV4	CCV	1	19.82	2.546	15	PASS	20.03	0.814	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.8	1.452	15	PASS	19.85	2.033	15	PASS
CCB5	CCB	1	0	193.726	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.97	1.185	15	PASS	19.84	1.715	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.49	1.784	15	PASS	18.68	1.176	15	PASS
CCV7	CCV	1	19.91	0.524	15	PASS	19.79	2.388	15	PASS
CCB7	CCB	1	0	1329.176	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.93	0.61	15	PASS	19.81	1.856	15	PASS
CCB8	CCB	1	0	214.459	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.87	0.848	15	PASS	19.73	2.872	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.27	2.022	15	PASS	18.61	2.177	15	PASS
MB-106016	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106016	LCS	1	98.55	1.974	15	PASS	95.87	1.457	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				66 Zn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	19.39	0.491	15	PASS	10.49	3.555	15	PASS
N062346-002B	SAMP	1	4.7	3.478	15	PASS	1.72	0.939	15	PASS
N062346-002B	SAMP	5	1.03	2.784	15	PASS	1.42	12.084	15	PASS
N062346-002B-PS	PS	1	96.68	0.382	15	PASS	89.95	0.938	15	PASS
N062346-002B-MS	MS	1	96.34	0.661	15	PASS	89.41	2.417	15	PASS
N062346-002B-MSD	MSD	1	96.89	1.43	15	PASS	89.6	1.885	15	PASS
N062348-001C	SAMP	1	0.89	1.355	15	PASS	<0.000	N/A	15	<PQL
CCV10	CCV	1	20.05	1.489	15	PASS	20.06	2.967	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062348-002C	SAMP	1	0.92	2.426	15	PASS	<0.000	N/A	15	<PQL
N062348-003C	SAMP	1	2	2.397	15	PASS	<0.000	N/A	15	<PQL
N062348-004C	SAMP	1	430.93	0.094	15	PASS	<0.000	N/A	15	<PQL
N062348-006B	SAMP	1	0.56	7.797	15	PASS	<0.000	N/A	15	<PQL
N062348-007B	SAMP	1	127.49	1.226	15	PASS	0.22	41.169	15	<PQL
N062348-008B	SAMP	1	127.28	0.205	15	PASS	0.37	21.508	15	<PQL
N062348-009C	SAMP	1	30.63	2.101	15	PASS	<0.000	N/A	15	<PQL
N062348-010C	SAMP	1	32.1	1.608	15	PASS	0.57	30.374	15	<PQL
CCV11	CCV	1	20.31	2.585	15	PASS	19.51	1.314	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0	29.648	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.54	0.957	15	PASS	18.38	3.501	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	17.755	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	5.178	15	PASS
Std3-5/50 ppb	ICAL	1	4.78	3.371	15	PASS
Std4-10/100 ppb	ICAL	1	9.61	3.111	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	1.397	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.7	2.225	15	PASS
Std7-100/1000 ppb	ICAL	1	98.25	1.251	15	PASS
Std8-200/2000 ppb	ICAL	1	201	1.135	15	PASS
ICV	ICV	1	10.02	2.362	15	PASS
ICB	ICB	1	0.02	108.234	15	<PQL
LLICV1	LLICV	1	0.12	38.706	20	NR!
MLCCV	CCV	1	19.55	2.31	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.88	0.647	15	PASS
CCV1	CCV	1	19.3	1.384	15	PASS
CCB1	CCB	1	0.01	156.204	15	<PQL
CCV2	CCV	1	19.53	3.422	15	PASS
CCB2	CCB	1	0.01	129.706	15	<PQL
CCV3	CCV	1	19	0.173	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	190.311	15	<PQL
ICSAB2	ICSAB	1	19.58	1.984	15	PASS
CCV4	CCV	1	19.64	4.092	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.15	1.639	15	PASS
CCB5	CCB	1	0.02	132.814	15	<PQL
CCV6	CCV	1	19.67	0.626	15	PASS
CCB6	CCB	1	0.01	218.589	15	<PQL
ICSA3	ICSA	1	0	841.677	15	<PQL
ICSAB3	ICSAB	1	19.7	1.601	15	PASS
CCV7	CCV	1	19.14	3.308	15	PASS
CCB7	CCB	1	0.01	76.426	15	<PQL
CCV8	CCV	1	19.7	2.769	15	PASS
CCB8	CCB	1	0.03	40.803	15	<PQL
CCV9	CCV	1	19.22	1.114	15	PASS
CCB9	CCB	1	0	349.455	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.69	2.321	15	PASS
MB-106016	MBLK	1	<0.000	N/A	15	<PQL
LCS-106016	LCS	1	9.16	4.708	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	<0.000	N/A	15	<PQL
N062346-002B	SAMP	1	5.29	2.692	15	PASS
N062346-002B	SAMP	5	1.06	8.329	15	PASS
N062346-002B-PS	PS	1	14.51	1.034	15	PASS
N062346-002B-MS	MS	1	14.98	2.995	15	PASS
N062346-002B-MSD	MSD	1	14.55	4.584	15	PASS
N062348-001C	SAMP	1	1.05	11.799	15	PASS
CCV10	CCV	1	19.19	1.754	15	PASS
CCB10	CCB	1	0	177.035	15	<PQL
N062348-002C	SAMP	1	0.27	22.777	15	NR!
N062348-003C	SAMP	1	<0.000	N/A	15	<PQL
N062348-004C	SAMP	1	6.07	4.826	15	PASS
N062348-006B	SAMP	1	1.48	3.654	15	PASS
N062348-007B	SAMP	1	<0.000	N/A	15	<PQL
N062348-008B	SAMP	1	<0.000	N/A	15	<PQL
N062348-009C	SAMP	1	<0.000	N/A	15	<PQL
N062348-010C	SAMP	1	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.25	1.215	15	PASS
CCB11	CCB	1	0.03	41.607	15	<PQL
ICSA5	ICSA	1	0	454.596	15	<PQL
ICSAB5	ICSAB	1	19.95	1.667	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0112001.d	RINSE	ICAL	1	01/14/24 12:20 PM
A0114002.d	RINSE	ICAL	1	01/14/24 12:25 PM
A0114003.d	Cal Blk	IBLK	1	01/14/24 12:29 PM
A0114004.d	Std1-0.1/1 ppb	ICAL	1	01/14/24 12:34 PM
A0114005.d	Std2-0.5/5 ppb	ICAL	1	01/14/24 12:39 PM
A0114006.d	Std3-5/50 ppb	ICAL	1	01/14/24 12:44 PM
A0114007.d	Std4-10/100 ppb	ICAL	1	01/14/24 12:48 PM
A0114008.d	Std5-4.0/20/200 ppb	ICAL	1	01/14/24 12:53 PM
A0114009.d	Std6-8.0/40/400 ppb	ICAL	1	01/14/24 12:58 PM
A0114010.d	Std7-100/1000 ppb	ICAL	1	01/14/24 1:03 PM
A0114011.d	Std8-200/2000 ppb	ICAL	1	01/14/24 1:07 PM
A0114012.d	ICV	ICV	1	01/14/24 1:12 PM
A0114013.d	ICB	ICB	1	01/14/24 1:17 PM
A0114014.d	LLICV1	LLICV	1	01/14/24 1:21 PM
A0114015.d	MLCCV	CCV	1	01/14/24 1:26 PM
A0114016.d	ICSA1	ICSA	1	01/14/24 1:31 PM
A0114017.d	ICSAB1	ICSAB	1	01/14/24 1:35 PM
A0114018.d	MB-106015	MBLK	1	01/14/24 1:40 PM
A0114019.d	LCS-106015	LCS	1	01/14/24 1:44 PM
A0114020.d	N062350-001D	SAMP	1	01/14/24 1:49 PM
A0114021.d	N062350-002B	SAMP	1	01/14/24 1:54 PM
A0114022.d	N062350-003B	SAMP	1	01/14/24 1:58 PM
A0114023.d	N062350-004D	SAMP	1	01/14/24 2:03 PM
A0114024.d	N062350-005D	SAMP	1	01/14/24 2:08 PM
A0114025.d	N062350-006D	SAMP	1	01/14/24 2:12 PM
A0114026.d	N062350-008D	SAMP	1	01/14/24 2:17 PM
A0114027.d	RINSE	ICAL	1	01/14/24 2:21 PM
A0114028.d	CCV1	CCV	1	01/14/24 2:26 PM
A0114029.d	CCB1	CCB	1	01/14/24 2:31 PM
A0114030.d	N062350-009D	SAMP	1	01/14/24 2:35 PM
A0114031.d	N062350-0010E	SAMP	1	01/14/24 2:40 PM
A0114032.d	N062350-0011E	SAMP	1	01/14/24 2:45 PM
A0114033.d	N062350-0012E	SAMP	1	01/14/24 2:49 PM
A0114034.d	N062350-0013E	SAMP	1	01/14/24 2:54 PM
A0114035.d	N062350-0014E	SAMP	1	01/14/24 2:59 PM
A0114036.d	N062350-0015E	SAMP	1	01/14/24 3:03 PM
A0114037.d	N062350-0016B	SAMP	1	01/14/24 3:08 PM
A0114038.d	N062350-0017B	SAMP	1	01/14/24 3:13 PM
A0114039.d	RINSE	ICAL	1	01/14/24 3:17 PM
A0114040.d	CCV2	CCV	1	01/14/24 3:22 PM
A0114041.d	CCB2	CCB	1	01/14/24 3:26 PM
A0114042.d	N062350-0018D	SAMP	1	01/14/24 3:31 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114043.d	N062350-0018D	SAMP	5	01/14/24 3:36 PM
A0114044.d	N062350-0018D-PS	PS	1	01/14/24 3:40 PM
A0114045.d	N062350-0018DMS	MS	1	01/14/24 3:45 PM
A0114046.d	N062350-0018DMSD	MSD	1	01/14/24 3:50 PM
A0114047.d	N062350-0019F	SAMP	1	01/14/24 3:54 PM
A0114048.d	N062350-0020F	SAMP	1	01/14/24 3:59 PM
A0114049.d	MB-106021	MBLK	1	01/14/24 4:04 PM
A0114050.d	LCS-106021	LCS	1	01/14/24 4:08 PM
A0114051.d	RINSE	ICAL	1	01/14/24 4:13 PM
A0114052.d	CCV3	CCV	1	01/14/24 4:18 PM
A0114053.d	CCB3	CCB	1	01/14/24 4:22 PM
A0114054.d	ICSA2	ICSA	1	01/14/24 4:27 PM
A0114055.d	ICSAB2	ICSAB	1	01/14/24 4:31 PM
A0114056.d	N062351-001B	SAMP	1	01/14/24 4:36 PM
A0114057.d	N062351-001B	SAMP	5	01/14/24 4:41 PM
A0114058.d	N062351-001B-PS	PS	1	01/14/24 4:45 PM
A0114059.d	N062351-001B-MS	MS	1	01/14/24 4:50 PM
A0114060.d	N062351-001B-MSD	MSD	1	01/14/24 4:55 PM
A0114061.d	N062351-002B	SAMP	1	01/14/24 4:59 PM
A0114062.d	N062351-003B	SAMP	1	01/14/24 5:04 PM
A0114063.d	N062351-004D	SAMP	1	01/14/24 5:09 PM
A0114064.d	N062351-005D	SAMP	1	01/14/24 5:13 PM
A0114065.d	RINSE	ICAL	1	01/14/24 5:18 PM
A0114066.d	CCV4	CCV	1	01/14/24 5:23 PM
A0114067.d	CCB4	CCB	1	01/14/24 5:27 PM
A0114068.d	N062351-006D	SAMP	1	01/14/24 5:32 PM
A0114069.d	N062351-007D	SAMP	1	01/14/24 5:36 PM
A0114070.d	N062351-008D	SAMP	1	01/14/24 5:41 PM
A0114071.d	N062351-009D	SAMP	1	01/14/24 5:46 PM
A0114072.d	N062351-010D	SAMP	1	01/14/24 5:50 PM
A0114073.d	N062351-011D	SAMP	1	01/14/24 5:55 PM
A0114074.d	N062351-012D	SAMP	1	01/14/24 6:00 PM
A0114075.d	N062351-013D	SAMP	1	01/14/24 6:04 PM
A0114076.d	N062351-014D	SAMP	1	01/14/24 6:09 PM
A0114077.d	RINSE	ICAL	1	01/14/24 6:14 PM
A0114078.d	CCV5	CCV	1	01/14/24 6:18 PM
A0114079.d	CCB5	CCB	1	01/14/24 6:23 PM
A0114080.d	N062352-001B	SAMP	1	01/14/24 6:27 PM
A0114081.d	N062352-002B	SAMP	1	01/14/24 6:32 PM
A0114082.d	N062352-003B	SAMP	1	01/14/24 6:37 PM
A0114083.d	N062272-018C	SAMP	1	01/14/24 6:41 PM
A0114084.d	N062272-018C	SAMP	1	01/14/24 6:46 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114085.d	N062279-023D	SAMP	1	01/14/24 6:51 PM
A0114086.d	N062279-023D	SAMP	1	01/14/24 6:55 PM
A0114087.d	N062310-005B	SAMP	1	01/14/24 7:00 PM
A0114088.d	N062310-005B	SAMP	1	01/14/24 7:05 PM
A0114089.d	RINSE	ICAL	1	01/14/24 7:09 PM
A0114090.d	CCV6	CCV	1	01/14/24 7:14 PM
A0114091.d	CCB6	CCB	1	01/14/24 7:19 PM
A0114092.d	ICSA3	ICSA	1	01/14/24 7:23 PM
A0114093.d	ICSAB3	ICSAB	1	01/14/24 7:28 PM
A0114094.d	N062310-008D	SAMP	1	01/14/24 7:33 PM
A0114095.d	N062310-008D	SAMP	1	01/14/24 7:37 PM
A0114096.d	N062310-011B	SAMP	1	01/14/24 7:42 PM
A0114097.d	N062310-011B	SAMP	1	01/14/24 7:47 PM
A0114098.d	N062310-022D	SAMP	1	01/14/24 7:51 PM
A0114099.d	N062310-022D	SAMP	1	01/14/24 7:56 PM
A0114100.d	N062310-023D	SAMP	1	01/14/24 8:01 PM
A0114101.d	N062310-023D	SAMP	1	01/14/24 8:05 PM
A0114102.d	N062312-012C	SAMP	1	01/14/24 8:10 PM
A0114103.d	RINSE	ICAL	1	01/14/24 8:14 PM
A0114104.d	CCV7	CCV	1	01/14/24 8:19 PM
A0114105.d	CCB7	CCB	1	01/14/24 8:24 PM
A0114106.d	N062312-012C	SAMP	1	01/14/24 8:28 PM
A0114107.d	N062312-016C	SAMP	1	01/14/24 8:33 PM
A0114108.d	N062312-016C	SAMP	1	01/14/24 8:38 PM
A0114109.d	N062350-0014E	SAMP	5	01/14/24 8:42 PM
A0114110.d	N062350-0015E	SAMP	5	01/14/24 8:47 PM
A0114111.d	N062350-0016B	SAMP	25	01/14/24 8:52 PM
A0114112.d	N062350-0017B	SAMP	5	01/14/24 8:56 PM
A0114113.d	N062350-0019F	SAMP	10	01/14/24 9:01 PM
A0114114.d	N062350-0020F	SAMP	10	01/14/24 9:06 PM
A0114115.d	RINSE	ICAL	1	01/14/24 9:10 PM
A0114116.d	CCV8	CCV	1	01/14/24 9:15 PM
A0114117.d	CCB8	CCB	1	01/14/24 9:19 PM
A0114118.d	N062351-001B	SAMP	25	01/14/24 9:24 PM
A0114119.d	N062351-001B-PS	PS	5	01/14/24 9:29 PM
A0114120.d	N062351-001B-MS	MS	5	01/14/24 9:34 PM
A0114121.d	N062351-001B-MSD	MSD	5	01/14/24 9:38 PM
A0114122.d	N062351-002B	SAMP	5	01/14/24 9:43 PM
A0114123.d	N062351-013D	SAMP	5	01/14/24 9:47 PM
A0114124.d	RINSE	ICAL	1	01/14/24 9:52 PM
A0114125.d	CCV9	CCV	1	01/14/24 9:57 PM
A0114126.d	CCB9	CCB	1	01/14/24 10:01 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114127.d	ICSA4	ICSA	1	01/14/24 10:06 PM
A0114128.d	ICSAB4	ICSAB	1	01/14/24 10:11 PM
A0114129.d	MB-106016	MBLK	1	01/14/24 10:15 PM
A0114130.d	LCS-106016	LCS	1	01/14/24 10:20 PM
A0114131.d	N062346-001B	SAMP	1	01/14/24 10:25 PM
A0114132.d	N062346-002B	SAMP	1	01/14/24 10:29 PM
A0114133.d	N062346-002B	SAMP	5	01/14/24 10:34 PM
A0114134.d	N062346-002B-PS	PS	1	01/14/24 10:39 PM
A0114135.d	N062346-002B-MS	MS	1	01/14/24 10:43 PM
A0114136.d	N062346-002B-MSD	MSD	1	01/14/24 10:48 PM
A0114137.d	N062348-001C	SAMP	1	01/14/24 10:52 PM
A0114138.d	RINSE	ICAL	1	01/14/24 10:57 PM
A0114139.d	CCV10	CCV	1	01/14/24 11:02 PM
A0114140.d	CCB10	CCB	1	01/14/24 11:07 PM
A0114141.d	N062348-002C	SAMP	1	01/14/24 11:11 PM
A0114142.d	N062348-003C	SAMP	1	01/14/24 11:16 PM
A0114143.d	N062348-004C	SAMP	1	01/14/24 11:20 PM
A0114144.d	N062348-006B	SAMP	1	01/14/24 11:25 PM
A0114145.d	N062348-007B	SAMP	1	01/14/24 11:30 PM
A0114146.d	N062348-008B	SAMP	1	01/14/24 11:34 PM
A0114147.d	N062348-009C	SAMP	1	01/14/24 11:39 PM
A0114148.d	N062348-010C	SAMP	1	01/14/24 11:44 PM
A0114149.d	RINSE	ICAL	1	01/14/24 11:48 PM
A0114150.d	CCV11	CCV	1	01/14/24 11:53 PM
A0114151.d	CCB11	CCB	1	01/14/24 11:58 PM
A0114152.d	ICSA5	ICSA	1	01/15/24 12:02 AM
A0114153.d	ICSAB5	ICSAB	1	01/15/24 12:07 AM
A0114154.d	RINSE	ICAL	1	01/15/24 12:12 AM
A0114155.d	RINSE	ICAL	1	01/15/24 12:16 AM
A0114156.d	RINSE	ICAL	1	01/15/24 12:21 AM
A0114157.d	RINSE	ICAL	1	01/15/24 12:25 AM
A0114158.d	RINSE	ICAL	1	01/15/24 12:30 AM

SAMPLE PREPARATION LOG



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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PREP BATCH REPORT

Prep Start Date: **1/12/2024 10:15:02 AM**

Prep End Date: **1/12/2024 2:30:00 PM**

Prep Batch **106016** Prep Code:**3010_W_MSDISS_TPK**

Reviewed/ Date: *JRB* **2/8/2024**

Initials/ Date: *JRB* _____

Technician: **Diane Jetajobe**

Page: 1 of 2

Prep Factor Units Temp. (°C): Location:
 mL / mL **95** **DB-02-7**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106016	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106016	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062346-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **1/12/2024 10:15:02 AM**

Prep End Date: **1/12/2024 2:30:00 PM**

Prep Batch **106016** Prep Code:**3010_W_MS DISS_TPK**

Reviewed/ Date: *JRB* **2/8/2024**

Initials/ Date: _____
for _____

Technician: **Diane Jetajobe**

Page:2 of 2

Prep Factor Units Temp. (°C): Location:
mL / mL **95** **DB-02-7**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062348-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240113A.b
Acq. Date-Time 2024-01-14 08:51:07
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

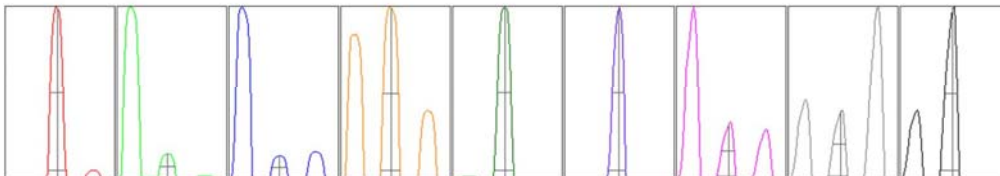
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9326	93259.41	500.00		2.333	5.000
24	10.00	28090	280898.49	500.00		1.709	5.000
25	10.00	3780	37797.56	500.00		2.250	5.000
26	10.00	4372	43722.12	500.00		2.599	5.000
59	10.00	39696	396963.60	500.00		1.701	5.000
115	10.00	47956	479557.06	500.00		1.695	5.000
206	10.00	9487	94867.57	500.00		2.040	5.000
207	10.00	7825	78250.73	500.00		1.877	5.000
208	10.00	19385	193852.31	500.00		1.541	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.521 %
Doubly Charged 70 / 140 1.076 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9412.89	8.95	8.90 - 9.10	
24	28880.51	23.90	23.90 - 24.10	
25	3775.56	24.90	24.90 - 25.10	
26	4445.67	25.90	25.90 - 26.10	
59	39132.45	58.95	58.90 - 59.10	
115	46438.76	115.00	114.90 - 115.10	
206	8604.67	205.95	205.90 - 206.10	
207	7617.75	206.95	206.90 - 207.10	
208	19227.72	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.496	0.900	
25	0.41	0.494	0.900	
26	0.43	0.536	0.900	
59	0.38	0.530	0.900	
115	0.33	0.474	0.900	
206	0.36	0.528	0.900	
207	0.36	0.535	0.900	
208	0.35	0.531	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2506 V Pulse HV 1566 V

[H2]

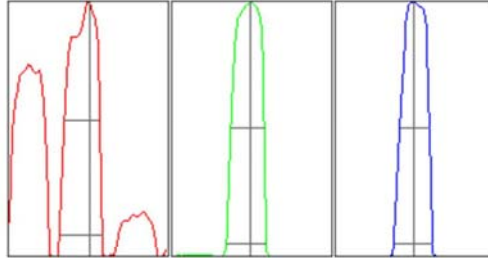
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		240	2398.17			7.036	
59		4138	41377.18			2.586	
115		39171	391713.64			1.934	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.385 %
 Doubly Charged 70 / 140 0.367 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	269.28	26.05	25.90 - 26.10	
59	4272.64	59.00	58.90 - 59.10	
115	40458.99	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.811	0.900	
59	0.63	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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[He]

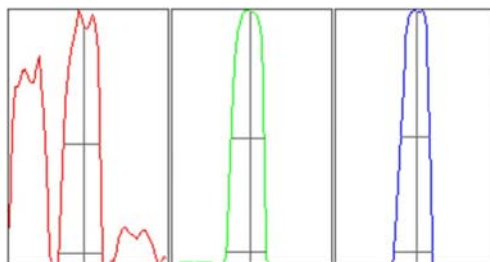
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		104	1043.03			9.506	
59		7991	79913.39			1.858	
115		7621	76207.58			2.391	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.157 %
Doubly Charged	70 / 140 1.261 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	105.26	25.95	25.90 - 26.10	
59	8020.78	59.00	58.90 - 59.10	
115	7603.42	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.828	0.900	
59	0.63	0.743	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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INITIAL CALIBRATION DATA SUMMARY



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INITIAL CALIBRATION SUMMARY: 240114A

Instrument ID: ICPMS-03

Analyte	Data File	A0114003.d	A0114004.d	A0114005.d	A0114006.d	A0114007.d	A0114008.d	A0114009.d	A0114010.d	A0114011.d	
	Acq. Date-Time	01/14/2024 12:29 PM	01/14/2024 12:34 PM	01/14/2024 12:39 PM	01/14/2024 12:44 PM	01/14/2024 12:48 PM	01/14/2024 12:53 PM	01/14/2024 12:58 PM	01/14/2024 01:03 PM	01/14/2024 01:07 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	59813.2		61841.6	62519.8	61752.6	60479	62529.9	61303.1	61430.3	
55 Mn [2]	CPS	23.3		1122.9	11340.2	21893.8	44485.4	90704.7	225760	451649	1.0000
52 Cr [2]	CPS	583.3		2519.1	21896.7	43555.8	87181.7	181073.6	445148.2	895642.2	1.0000
72 Ge (ISTD) [2]	CPS	33804.8	35594.2	35545.2	35031.9	35195.6	34457.3	35373.7	35286.9	34834.8	
75 As [2]	CPS	7.7	74.4	265.5	2522.3	5086.2	10137.3	21085.3	52043.6	105106.7	0.9999
66 Zn [2]	CPS	675.3		2184.3	5330.8	8436.2	18026.9	45572.9	83739.8	166786.5	0.9978
159 Tb (ISTD) [3]	CPS	2686174.5		2848111.9	2856390.5	2856131.9	2790492.7	2866112.1	2892081.5	2848012.4	
137 Ba [3]	CPS	36.7		2937	27187.3	53782.9	108878.9	225961.9	565948.3	1127957.4	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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P: 702.307.2659 F: 702.307.2691

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.019	0.10	10.00	0	100	90	110				
Barium	10.121	1.0	10.00	0	101	90	110				
Manganese	100.530	0.50	100.0	0	101	90	110				
Zinc	97.326	10	100.0	0	97.3	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ZZZZZZ	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630515						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.120	0.10	0.1000	0	120	80	120				
Barium	1.030	1.0	1.000	0	103	80	120				
Manganese	0.544	0.50	0.5000	0	109	80	120				
Zinc	10.036	10	10.00	0	100	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630516						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.547	0.10	20.00	0	97.7	90	110				
Barium	19.615	1.0	20.00	0	98.1	90	110				
Manganese	20.189	0.50	20.00	0	101	90	110				
Zinc	20.495	10	20.00	0	102	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.303	0.10	20.00	0	96.5	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	20.120	1.0	20.00	0	101	90	110				
Manganese	19.989	0.50	20.00	0	99.9	90	110				
Zinc	20.293	10	20.00	0	101	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.526	0.10	20.00	0	97.6	90	110				
Barium	19.885	1.0	20.00	0	99.4	90	110				
Manganese	20.203	0.50	20.00	0	101	90	110				
Zinc	20.416	10	20.00	0	102	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.998	0.10	20.00	0	95.0	90	110				
Barium	20.156	1.0	20.00	0	101	90	110				
Manganese	19.696	0.50	20.00	0	98.5	90	110				
Zinc	19.353	10	20.00	0	96.8	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.640	0.10	20.00	0	98.2	90	110				
Barium	20.037	1.0	20.00	0	100	90	110				
Manganese	19.820	0.50	20.00	0	99.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630563							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	20.028	10	20.00	0	100	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.152	0.10	20.00	0	95.8	90	110				
Barium	20.318	1.0	20.00	0	102	90	110				
Manganese	19.800	0.50	20.00	0	99.0	90	110				
Zinc	19.851	10	20.00	0	99.3	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630585							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.672	0.10	20.00	0	98.4	90	110				
Barium	20.039	1.0	20.00	0	100	90	110				
Manganese	19.969	0.50	20.00	0	99.8	90	110				
Zinc	19.840	10	20.00	0	99.2	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630598							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.135	0.10	20.00	0	95.7	90	110				
Barium	19.891	1.0	20.00	0	99.5	90	110				
Manganese	19.907	0.50	20.00	0	99.5	90	110				
Zinc	19.790	10	20.00	0	99.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630609			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.697	0.10	20.00	0	98.5	90	110				
Barium	20.272	1.0	20.00	0	101	90	110				
Manganese	19.929	0.50	20.00	0	99.6	90	110				
Zinc	19.811	10	20.00	0	99.1	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630617			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.222	0.10	20.00	0	96.1	90	110				
Barium	20.222	1.0	20.00	0	101	90	110				
Manganese	19.869	0.50	20.00	0	99.3	90	110				
Zinc	19.733	10	20.00	0	98.7	90	110				

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630630			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.190	0.10	20.00	0	95.9	90	110				
Barium	20.208	1.0	20.00	0	101	90	110				
Manganese	20.045	0.50	20.00	0	100	90	110				
Zinc	20.056	10	20.00	0	100	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630640			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.247	0.10	20.00	0	96.2	90	110				
Barium	20.253	1.0	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 180411		
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020				Analysis Date: 1/14/2024			SeqNo: 5630640		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.308	0.50	20.00	0	102	90	110				
Zinc	19.512	10	20.00	0	97.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627307							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.900	1.0	10.00	0	99.0	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ZZZZZ	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.989	1.0	1.000	0	98.9	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627310							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.810	1.0	20.00	0	99.0	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627322							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.934	1.0	20.00	0	99.7	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627333							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.775	1.0	20.00	0	98.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627344	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.617	1.0	20.00	0	98.1 90 110

Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627357	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.784	1.0	20.00	0	98.9 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627368	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.761	1.0	20.00	0	98.8 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627379	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.712	1.0	20.00	0	98.6 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627392	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.470	1.0	20.00	0	97.4 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627403						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.759	1.0	20.00	0	98.8	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.754	1.0	20.00	0	98.8	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.626	1.0	20.00	0	98.1	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627434						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.039	1.0	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630514						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	ND	10
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Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630631							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5630641							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627323						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627334						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627404						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630518						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.877	0.10	20.00	0	99.4	80	120				
Barium	20.372	1.0	20.00	0	102	80	120				
Manganese	20.267	0.50	20.00	0	101	80	120				
Zinc	19.474	10	20.00	0	97.4	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.578	0.10	20.00	0	97.9	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSAB		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630553			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	20.362	1.0	20.00	0	102	80	120				
Manganese	20.373	0.50	20.00	0	102	80	120				
Zinc	19.175	10	20.00	0	95.9	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630587			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSAB		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630588			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.698	0.10	20.00	0	98.5	80	120				
Barium	20.547	1.0	20.00	0	103	80	120				
Manganese	20.487	0.50	20.00	0	102	80	120				
Zinc	18.678	10	20.00	0	93.4	80	120				

Sample ID: ICSA4		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630619			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	ND	10									
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Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.694	0.10	20.00	0	98.5	80	120				
Barium	20.637	1.0	20.00	0	103	80	120				
Manganese	20.267	0.50	20.00	0	101	80	120				
Zinc	18.607	10	20.00	0	93.0	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5630642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5630643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.951	0.10	20.00	0	99.8	80	120				
Barium	20.657	1.0	20.00	0	103	80	120				
Manganese	20.537	0.50	20.00	0	103	80	120				
Zinc	18.378	10	20.00	0	91.9	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627311						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627311						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.152	1.0	20.00	0	101	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.087	1.0	20.00	0	100	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627381						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627382						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.285	1.0	20.00	0	101	80	120				
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Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627414						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.988	1.0	20.00	0	99.9	80	120				
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Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5627436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5627437						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.301	1.0	20.00	0	102	80	120				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	2686174.5	2686174.5	100	PASS	30-150	59813.2	59813.2	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	2835321.4	2686174.5	105.55	PASS	30-150	62107.2	59813.2	103.84	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	2848111.9	2686174.5	106.03	PASS	30-150	61841.6	59813.2	103.39	PASS	30-150
Std3-5/50 ppb	ICAL	1	2856390.5	2686174.5	106.34	PASS	30-150	62519.8	59813.2	104.53	PASS	30-150
Std4-10/100 ppb	ICAL	1	2856131.9	2686174.5	106.33	PASS	30-150	61752.6	59813.2	103.24	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	2790492.7	2686174.5	103.88	PASS	30-150	60479	59813.2	101.11	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	2866112.1	2686174.5	106.7	PASS	30-150	62529.9	59813.2	104.54	PASS	30-150
Std7-100/1000 ppb	ICAL	1	2892081.5	2686174.5	107.67	PASS	30-150	61303.1	59813.2	102.49	PASS	30-150
Std8-200/2000 ppb	ICAL	1	2848012.4	2686174.5	106.03	PASS	30-150	61430.3	59813.2	102.7	PASS	30-150
ICV	ICV	1	2881098.2	2686174.5	107.26	PASS	30-150	60729.8	59813.2	101.53	PASS	30-150
ICB	ICB	1	2723359.4	2686174.5	101.38	PASS	30-150	57469.6	59813.2	96.08	PASS	30-150
LLICV1	LLICV	1	2831032.4	2686174.5	105.39	PASS	30-150	59211.1	59813.2	98.99	PASS	30-150
MLCCV	CCV	1	2794305.8	2686174.5	104.03	PASS	30-150	58563.3	59813.2	97.91	PASS	30-150
ICSA1	ICSA	1	2771468.5	2686174.5	103.18	PASS	30-150	58647	59813.2	98.05	PASS	30-150
ICSAB1	ICSAB	1	2823310.2	2686174.5	105.11	PASS	30-150	59745.2	59813.2	99.89	PASS	30-150
CCV1	CCV	1	2873984	2686174.5	106.99	PASS	30-150	58537.7	59813.2	97.87	PASS	30-150
CCB1	CCB	1	2763448.2	2686174.5	102.88	PASS	30-150	56151.7	59813.2	93.88	PASS	30-150
CCV2	CCV	1	2849593.7	2686174.5	106.08	PASS	30-150	57506.3	59813.2	96.14	PASS	30-150
CCB2	CCB	1	2730206.9	2686174.5	101.64	PASS	30-150	55262.1	59813.2	92.39	PASS	30-150
CCV3	CCV	1	2842012.5	2686174.5	105.8	PASS	30-150	57074.9	59813.2	95.42	PASS	30-150
CCB3	CCB	1	2703570.9	2686174.5	100.65	PASS	30-150	54977	59813.2	91.91	PASS	30-150
ICSA2	ICSA	1	2773097.5	2686174.5	103.24	PASS	30-150	55992.3	59813.2	93.61	PASS	30-150
ICSAB2	ICSAB	1	2802416.1	2686174.5	104.33	PASS	30-150	57131.8	59813.2	95.52	PASS	30-150
CCV4	CCV	1	2829596.7	2686174.5	105.34	PASS	30-150	55721.6	59813.2	93.16	PASS	30-150
CCB4	CCB	1	2706880.9	2686174.5	100.77	PASS	30-150	53667	59813.2	89.72	PASS	30-150
CCV5	CCV	1	2816327.1	2686174.5	104.85	PASS	30-150	54600.1	59813.2	91.28	PASS	30-150
CCB5	CCB	1	2693799	2686174.5	100.28	PASS	30-150	52400.7	59813.2	87.61	PASS	30-150
CCV6	CCV	1	2811546.3	2686174.5	104.67	PASS	30-150	53629.1	59813.2	89.66	PASS	30-150
CCB6	CCB	1	2666785.1	2686174.5	99.28	PASS	30-150	51954.9	59813.2	86.86	PASS	30-150
ICSA3	ICSA	1	2740555.7	2686174.5	102.02	PASS	30-150	52856.7	59813.2	88.37	PASS	30-150
ICSAB3	ICSAB	1	2760850.4	2686174.5	102.78	PASS	30-150	53529.9	59813.2	89.5	PASS	30-150
CCV7	CCV	1	2818982.3	2686174.5	104.94	PASS	30-150	52939.1	59813.2	88.51	PASS	30-150
CCB7	CCB	1	2686365.3	2686174.5	100.01	PASS	30-150	50295.4	59813.2	84.09	PASS	30-150
CCV8	CCV	1	2724418.9	2686174.5	101.42	PASS	30-150	51845.7	59813.2	86.68	PASS	30-150
CCB8	CCB	1	2607970.3	2686174.5	97.09	PASS	30-150	49432.8	59813.2	82.65	PASS	30-150
CCV9	CCV	1	2700556.5	2686174.5	100.54	PASS	30-150	51861.3	59813.2	86.71	PASS	30-150
CCB9	CCB	1	2576502.8	2686174.5	95.92	PASS	30-150	50161.7	59813.2	83.86	PASS	30-150
ICSA4	ICSA	1	2664544.5	2686174.5	99.19	PASS	30-150	51318.5	59813.2	85.8	PASS	30-150
ICSAB4	ICSAB	1	2724936.5	2686174.5	101.44	PASS	30-150	52434.2	59813.2	87.66	PASS	30-150
MB-106016	MBLK	1	2598299.6	2686174.5	96.73	PASS	30-150	50080.3	59813.2	83.73	PASS	30-150
LCS-106016	LCS	1	2763116.3	2686174.5	102.86	PASS	30-150	51787.8	59813.2	86.58	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062346-001B	SAMP	1	2628270.1	2686174.5	97.84	PASS	30-150	48613.8	59813.2	81.28	PASS	30-150
N062346-002B	SAMP	1	2661923.8	2686174.5	99.1	PASS	30-150	49006.1	59813.2	81.93	PASS	30-150
N062346-002B	SAMP	5	2622525.4	2686174.5	97.63	PASS	30-150	48349.8	59813.2	80.83	PASS	30-150
N062346-002B-PS	PS	1	2708404.2	2686174.5	100.83	PASS	30-150	49829.6	59813.2	83.31	PASS	30-150
N062346-002B-MS	MS	1	2775389.6	2686174.5	103.32	PASS	30-150	50844.8	59813.2	85.01	PASS	30-150
N062346-002B-MSD	MSD	1	2753737.6	2686174.5	102.52	PASS	30-150	50775.7	59813.2	84.89	PASS	30-150
N062348-001C	SAMP	1	2583798.6	2686174.5	96.19	PASS	30-150	49523.1	59813.2	82.8	PASS	30-150
CCV10	CCV	1	2714478.3	2686174.5	101.05	PASS	30-150	50584.1	59813.2	84.57	PASS	30-150
CCB10	CCB	1	2610507.9	2686174.5	97.18	PASS	30-150	48708.5	59813.2	81.43	PASS	30-150
N062348-002C	SAMP	1	2408112.5	2686174.5	89.65	PASS	30-150	47242.1	59813.2	78.98	PASS	30-150
N062348-003C	SAMP	1	2076019.1	2686174.5	77.29	PASS	30-150	45768.1	59813.2	76.52	PASS	30-150
N062348-004C	SAMP	1	2129384.7	2686174.5	79.27	PASS	30-150	46485.6	59813.2	77.72	PASS	30-150
N062348-006B	SAMP	1	2407619.3	2686174.5	89.63	PASS	30-150	44656.2	59813.2	74.66	PASS	30-150
N062348-007B	SAMP	1	2387043.9	2686174.5	88.86	PASS	30-150	43941	59813.2	73.46	PASS	30-150
N062348-008B	SAMP	1	2309701.6	2686174.5	85.98	PASS	30-150	42862.6	59813.2	71.66	PASS	30-150
N062348-009C	SAMP	1	2267012.6	2686174.5	84.4	PASS	30-150	44653.9	59813.2	74.66	PASS	30-150
N062348-010C	SAMP	1	2283133.5	2686174.5	85	PASS	30-150	45451.6	59813.2	75.99	PASS	30-150
CCV11	CCV	1	2699472.6	2686174.5	100.5	PASS	30-150	47265.6	59813.2	79.02	PASS	30-150
CCB11	CCB	1	2601208.2	2686174.5	96.84	PASS	30-150	46252.6	59813.2	77.33	PASS	30-150
ICSA5	ICSA	1	2639326.9	2686174.5	98.26	PASS	30-150	46822	59813.2	78.28	PASS	30-150
ICSAB5	ICSAB	1	2694237.8	2686174.5	100.3	PASS	30-150	48280.7	59813.2	80.72	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	33804.8	33804.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	35594.2	33804.8	105.29	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	35545.2	33804.8	105.15	PASS	30-150
Std3-5/50 ppb	ICAL	1	35031.9	33804.8	103.63	PASS	30-150
Std4-10/100 ppb	ICAL	1	35195.6	33804.8	104.11	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	34457.3	33804.8	101.93	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	35373.7	33804.8	104.64	PASS	30-150
Std7-100/1000 ppb	ICAL	1	35286.9	33804.8	104.38	PASS	30-150
Std8-200/2000 ppb	ICAL	1	34834.8	33804.8	103.05	PASS	30-150
ICV	ICV	1	34536.4	33804.8	102.16	PASS	30-150
ICB	ICB	1	32859.6	33804.8	97.2	PASS	30-150
LLICV1	LLICV	1	34008.6	33804.8	100.6	PASS	30-150
MLCCV	CCV	1	33782.6	33804.8	99.93	PASS	30-150
ICSA1	ICSA	1	33607.8	33804.8	99.42	PASS	30-150
ICSAB1	ICSAB	1	34037.6	33804.8	100.69	PASS	30-150
CCV1	CCV	1	34036.5	33804.8	100.69	PASS	30-150
CCB1	CCB	1	33193.7	33804.8	98.19	PASS	30-150
CCV2	CCV	1	33311.6	33804.8	98.54	PASS	30-150
CCB2	CCB	1	32135.9	33804.8	95.06	PASS	30-150
CCV3	CCV	1	33721.4	33804.8	99.75	PASS	30-150
CCB3	CCB	1	32138.2	33804.8	95.07	PASS	30-150
ICSA2	ICSA	1	32732.7	33804.8	96.83	PASS	30-150
ICSAB2	ICSAB	1	33287.1	33804.8	98.47	PASS	30-150
CCV4	CCV	1	33144.6	33804.8	98.05	PASS	30-150
CCB4	CCB	1	31925.6	33804.8	94.44	PASS	30-150
CCV5	CCV	1	32445.4	33804.8	95.98	PASS	30-150
CCB5	CCB	1	31403.4	33804.8	92.9	PASS	30-150
CCV6	CCV	1	32052.4	33804.8	94.82	PASS	30-150
CCB6	CCB	1	31027.1	33804.8	91.78	PASS	30-150
ICSA3	ICSA	1	31254.2	33804.8	92.45	PASS	30-150
ICSAB3	ICSAB	1	31938.9	33804.8	94.48	PASS	30-150
CCV7	CCV	1	31715.2	33804.8	93.82	PASS	30-150
CCB7	CCB	1	30511.7	33804.8	90.26	PASS	30-150
CCV8	CCV	1	30774.4	33804.8	91.04	PASS	30-150
CCB8	CCB	1	29298.4	33804.8	86.67	PASS	30-150
CCV9	CCV	1	30682.1	33804.8	90.76	PASS	30-150
CCB9	CCB	1	30072.1	33804.8	88.96	PASS	30-150
ICSA4	ICSA	1	30836.8	33804.8	91.22	PASS	30-150
ICSAB4	ICSAB	1	31272.1	33804.8	92.51	PASS	30-150
MB-106016	MBLK	1	30122.2	33804.8	89.11	PASS	30-150
LCS-106016	LCS	1	31656.1	33804.8	93.64	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N062346-001B	SAMP	1	29063.6	33804.8	85.97	PASS	30-150
N062346-002B	SAMP	1	29693.6	33804.8	87.84	PASS	30-150
N062346-002B	SAMP	5	29676.9	33804.8	87.79	PASS	30-150
N062346-002B-PS	PS	1	30308	33804.8	89.66	PASS	30-150
N062346-002B-MS	MS	1	30727.7	33804.8	90.9	PASS	30-150
N062346-002B-MSD	MSD	1	30968.1	33804.8	91.61	PASS	30-150
N062348-001C	SAMP	1	29048	33804.8	85.93	PASS	30-150
CCV10	CCV	1	30830.1	33804.8	91.2	PASS	30-150
CCB10	CCB	1	29420.9	33804.8	87.03	PASS	30-150
N062348-002C	SAMP	1	27612.2	33804.8	81.68	PASS	30-150
N062348-003C	SAMP	1	25859.4	33804.8	76.5	PASS	30-150
N062348-004C	SAMP	1	26513.7	33804.8	78.43	PASS	30-150
N062348-006B	SAMP	1	26893.2	33804.8	79.55	PASS	30-150
N062348-007B	SAMP	1	26196.5	33804.8	77.49	PASS	30-150
N062348-008B	SAMP	1	25070.3	33804.8	74.16	PASS	30-150
N062348-009C	SAMP	1	26098.6	33804.8	77.2	PASS	30-150
N062348-010C	SAMP	1	26420.2	33804.8	78.16	PASS	30-150
CCV11	CCV	1	29231.6	33804.8	86.47	PASS	30-150
CCB11	CCB	1	28156.4	33804.8	83.29	PASS	30-150
ICSA5	ICSA	1	28845.4	33804.8	85.33	PASS	30-150
ICSAB5	ICSAB	1	29545.6	33804.8	87.4	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062346
Test Method: EPA 6020
Analysis Date: 1/14/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106016

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn & Zn. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062346-002B DT 5x	Arsenic	As	µg/L	5.305036	PASS	5.293336	0.22%	10
N062346-002B DT 5x	Barium	Ba	µg/L	32.48709	PASS	29.8307	8.90%	10
N062346-002B DT 5x	Manganese	Mn	µg/L	5.149448	NA	4.704129	9.47%	10
N062346-002B DT 5x	Zinc	Zn	µg/L	7.090612	NA	1.719788	312.30%	10
N062346-002B DT 5x	Chromium	Cr	µg/L	26.3787	PASS	25.61773	2.97%	10

Reviewed by:

 2/8/2024

Note: NA - Not Applicable

02/01/24 00:16

DT_EPA 6020_N062346_106016

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062346
 Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062346-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630626						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.511	0.10	10.00	5.293	92.2	80	120				
Barium	38.604	1.0	10.00	29.83	87.7	80	120				
Manganese	96.682	0.50	100.0	4.704	92.0	80	120				
Zinc	89.948	10	100.0	1.720	88.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062346
Project: PG&E Topock , 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062346-002B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5627420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	35.293	1.0	10.00	25.62	96.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"



Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 500056
Report Level: II
Report Date: 01/31/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N062347

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
Asset Laboratories
11110 Artersia
Blvd,
Suite B
Cerritos, CA 90703

Lab Job #: 500056
Location: N062347
Date Received: 01/17/24

Sample ID	Lab ID	Collected	Matrix
N062347-001A/MW-20-070-0124	500056-001	01/11/24 12:53	Water
N062347-002A/MW-20-100-0124	500056-002	01/11/24 14:06	Water
N062347-003A/MW-20-130-0124	500056-003	01/11/24 13:29	Water
N062347-004A/MW-21-0124	500056-004	01/11/24 10:16	Water
N062347-005A/MW-71-035-0124	500056-005	01/11/24 09:35	Water
N062347-005A/MW-902-Q124	500056-006	01/11/24 09:45	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job 500056
Number:
Location: N062347
Date Received: 01/17/24

This data package contains sample and QC results for six water samples, requested for the above referenced project on 01/17/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

- Level II is also requested.
- Low recoveries were observed for total organic carbon in the MS/MSD for batch 330853; the parent sample was not a project sample, and the LCS was within limits.
- No other analytical problems were encountered.



ASSET Laboratories

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 www.atl-labs.com
 TEL: 7023072659 FAX: 7023072691

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

QC Level: Level IV

Field Sampler: Riggie Tep

12-Jan-24

4500054
 20 11/18/24

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				SM5310B	
N062347-001A / MW-20-070-0124	Groundwater	1/11/2024 12:53:00 PM	8OZA	1	
N062347-002A / MW-20-100-0124	Groundwater	1/11/2024 2:06:00 PM	8OZA	1	
N062347-003A / MW-20-130-0124	Groundwater	1/11/2024 1:29:00 PM	8OZA	1	
N062347-004A / MW-21-0124	Groundwater	1/11/2024 10:16:00 AM	8OZA	1	
N062347-005A / MW-71-035-0124	Groundwater	1/11/2024 9:35:00 AM	8OZA	1	
N062347-006A / MW-902-Q124	Groundwater	1/11/2024 9:45:00 AM	8OZA	1	

50

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenz@assetlaboratories.com
 Please use PO#: N62347A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marion at (702)-307-2659. Please e-mail results to reports.iv@assetlaboratories.com by: Standard TAT
 Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

Relinquished by: <i>Efanegof</i>	Date/Time: 1/15/2024 1630
Relinquished by: _____	Date/Time: _____
Received by: _____	Date/Time: 1/17/24 1030
Received by: _____	Date/Time: _____

GLS#: 560783749



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Asset Lab

Project: N62347A

Date Received: 1/17/24

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 5.0 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: C. [Signature] Date: 1/17/24

Analysis Results for 500056

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 500056
 Location: N062347
 Date Received: 01/17/24

Sample ID: N062347-001A/MW-20-070-0124 **Lab ID:** 500056-001 **Collected:** 01/11/24 12:53
Matrix: Water

500056-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.8		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Sample ID: N062347-002A/MW-20-100-0124 **Lab ID:** 500056-002 **Collected:** 01/11/24 14:06
Matrix: Water

500056-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Sample ID: N062347-003A/MW-20-130-0124 **Lab ID:** 500056-003 **Collected:** 01/11/24 13:29
Matrix: Water

500056-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.4		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Sample ID: N062347-004A/MW-21-0124 **Lab ID:** 500056-004 **Collected:** 01/11/24 10:16
Matrix: Water

500056-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	6.2		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Sample ID: N062347-005A/MW-71-035-0124 **Lab ID:** 500056-005 **Collected:** 01/11/24 09:35
Matrix: Water

500056-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.2		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Sample ID: N062347-005A/MW-902-Q124 **Lab ID:** 500056-006 **Collected:** 01/11/24 09:45
Matrix: Water

500056-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	4.0		mg/L	1.0	1	330853	01/18/24	01/18/24	EPL

Batch QC

Type: Blank	Lab ID: QC1121279	Batch: 330853
Matrix: Water	Method: SM 5310B	

QC1121279 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	01/18/24	01/18/24

Type: Lab Control Sample	Lab ID: QC1121280	Batch: 330853
Matrix: Water	Method: SM 5310B	

QC1121280 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.18	25.00	mg/L	97%		80-120

Type: Matrix Spike	Lab ID: QC1121281	Batch: 330853
Matrix (Source ID): Water (499936-003)	Method: SM 5310B	

QC1121281 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	36.34	19.65	25.00	mg/L	67%	*	80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1121282	Batch: 330853
Matrix (Source ID): Water (499936-003)	Method: SM 5310B	

QC1121282 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	36.48	19.65	25.00	mg/L	67%	*	80-120	0	20	1

* Value is outside QC limits
 ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062348

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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January 26, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062348

RE: PG&E Topock - PCM, 30121866

Attention: Dan Bush

Enclosed are the results for sample(s) received on January 11, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062348

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Samples N062348-007 and -008 were diluted due to matrix. Samples are dark pink in color.



ASSET Laboratories

Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California

Project: PG&E Topock - PCM, 30121866

Lab Order: N062348

Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062348-001A	MW-20-070-0124	Groundwater	1/11/2024 12:53:00 PM	1/11/2024	1/26/2024
N062348-001B	MW-20-070-0124	Groundwater	1/11/2024 12:53:00 PM	1/11/2024	1/26/2024
N062348-001C	MW-20-070-0124	Groundwater	1/11/2024 12:53:00 PM	1/11/2024	1/26/2024
N062348-002A	MW-20-100-0124	Groundwater	1/11/2024 2:06:00 PM	1/11/2024	1/26/2024
N062348-002B	MW-20-100-0124	Groundwater	1/11/2024 2:06:00 PM	1/11/2024	1/26/2024
N062348-002C	MW-20-100-0124	Groundwater	1/11/2024 2:06:00 PM	1/11/2024	1/26/2024
N062348-003A	MW-20-130-0124	Groundwater	1/11/2024 1:29:00 PM	1/11/2024	1/26/2024
N062348-003B	MW-20-130-0124	Groundwater	1/11/2024 1:29:00 PM	1/11/2024	1/26/2024
N062348-003C	MW-20-130-0124	Groundwater	1/11/2024 1:29:00 PM	1/11/2024	1/26/2024
N062348-004A	MW-21-0124	Groundwater	1/11/2024 10:16:00 AM	1/11/2024	1/26/2024
N062348-004B	MW-21-0124	Groundwater	1/11/2024 10:16:00 AM	1/11/2024	1/26/2024
N062348-004C	MW-21-0124	Groundwater	1/11/2024 10:16:00 AM	1/11/2024	1/26/2024
N062348-005A	MW-21-EB-0124	Groundwater	1/11/2024 9:50:00 AM	1/11/2024	1/26/2024
N062348-006A	MW-68-180-0124	Groundwater	1/11/2024 12:01:00 PM	1/11/2024	1/26/2024
N062348-006B	MW-68-180-0124	Groundwater	1/11/2024 12:01:00 PM	1/11/2024	1/26/2024
N062348-007A	MW-67-185-0124	Groundwater	1/11/2024 11:01:00 AM	1/11/2024	1/26/2024
N062348-007B	MW-67-185-0124	Groundwater	1/11/2024 11:01:00 AM	1/11/2024	1/26/2024
N062348-007C	MW-67-185-0124	Groundwater	1/11/2024 11:01:00 AM	1/11/2024	1/26/2024
N062348-008A	MW-905-Q124	Groundwater	1/11/2024 11:11:00 AM	1/11/2024	1/26/2024
N062348-008B	MW-905-Q124	Groundwater	1/11/2024 11:11:00 AM	1/11/2024	1/26/2024
N062348-008C	MW-905-Q124	Groundwater	1/11/2024 11:11:00 AM	1/11/2024	1/26/2024
N062348-009A	MW-71-035-0124	Groundwater	1/11/2024 9:35:00 AM	1/11/2024	1/26/2024
N062348-009B	MW-71-035-0124	Groundwater	1/11/2024 9:35:00 AM	1/11/2024	1/26/2024
N062348-009C	MW-71-035-0124	Groundwater	1/11/2024 9:35:00 AM	1/11/2024	1/26/2024
N062348-010A	MW-902-Q124	Groundwater	1/11/2024 9:45:00 AM	1/11/2024	1/26/2024
N062348-010B	MW-902-Q124	Groundwater	1/11/2024 9:45:00 AM	1/11/2024	1/26/2024
N062348-010C	MW-902-Q124	Groundwater	1/11/2024 9:45:00 AM	1/11/2024	1/26/2024
N062348-011A	EB-707-Q124	Groundwater	1/11/2024 2:15:00 PM	1/11/2024	1/26/2024



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-001

Client Sample ID: MW-20-070-0124
Collection Date: 1/11/2024 12:53:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	520	3.9	20	µg/L	100	1/16/2024 04:01 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-002

Client Sample ID: MW-20-100-0124
Collection Date: 1/11/2024 2:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465				PrepDate:		Analyst: RAB
Hexavalent Chromium	1800	19	100		µg/L	500	1/16/2024 03:32 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-003

Client Sample ID: MW-20-130-0124
Collection Date: 1/11/2024 1:29:00 PM
Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A QC Batch: R180465 PrepDate: Analyst: RAB
Hexavalent Chromium 2400 19 100 ug/L 500 1/16/2024 03:04 PM

- Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-004

Client Sample ID: MW-21-0124
Collection Date: 1/11/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	0.26	0.039	0.20	µg/L	1	1/16/2024 05:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-005

Client Sample ID: MW-21-EB-0124
Collection Date: 1/11/2024 9:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/16/2024 06:55 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-006

Client Sample ID: MW-68-180-0124
Collection Date: 1/11/2024 12:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465				PrepDate:		Analyst: RAB
Hexavalent Chromium	16000	190	1000		µg/L	5000	1/16/2024 04:24 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240115G	QC Batch: 106016				PrepDate: 1/12/2024		Analyst: DJ
Chromium	15000	3.5	100		µg/L	100	1/15/2024 10:02 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-007

Client Sample ID: MW-67-185-0124
Collection Date: 1/11/2024 11:01:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465						Analyst: RAB
Hexavalent Chromium	240	15	80		µg/L	400	1/16/2024 05:01 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240115G	QC Batch: 106016					1/12/2024	Analyst: DJ
Chromium	260	0.35	10		µg/L	10	1/15/2024 10:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-008

Client Sample ID: MW-905-Q124
Collection Date: 1/11/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465						Analyst: RAB
Hexavalent Chromium	240	15	80		µg/L	400	1/16/2024 05:20 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240115G	QC Batch: 106016					1/12/2024	Analyst: DJ
Chromium	260	0.35	10		µg/L	10	1/15/2024 10:11 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-009

Client Sample ID: MW-71-035-0124
Collection Date: 1/11/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/16/2024 05:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-010

Client Sample ID: MW-902-Q124
Collection Date: 1/11/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/16/2024 06:17 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-011

Client Sample ID: EB-707-Q124
Collection Date: 1/11/2024 2:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240116A	QC Batch: R180465			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	1/16/2024 07:14 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R180465	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: PBW	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID: LCS-R180465	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: LCSW	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630069
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.047	0.20	5.000	0	101 90 110

Sample ID: N062348-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630093
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4879.400	100	2500	2361	101 90 110

Sample ID: N062348-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630094
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4844.100	100	2500	2361	99.3 90 110 4879 0.726 20

Sample ID: N062348-002ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630096
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1786.800	100			1787 0.0168 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062348-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4324.050	100	2500	1787	101	90	110				

Sample ID: N062348-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630099							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1017.940	20	500.0	523.5	98.9	90	110				

Sample ID: N062348-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630101							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	40580.000	1000	25000	16030	98.2	90	110				

Sample ID: N062348-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630105							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	660.640	80	400.0	239.1	105	90	110				

Sample ID: N062348-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	652.600	80	400.0	241.2	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062348-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.325	0.20	1.000	0.2574	107	90	110				

Sample ID: N062348-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.263	0.20	1.000	0.1873	108	90	110				

Sample ID: N062348-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.205	0.20	1.000	0.1631	104	90	110				

Sample ID: N062348-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.079	0.20	1.000	0	108	90	110				

Sample ID: N062348-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.038	0.20	1.000	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-106016	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: PBW	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627415						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-106016	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: LCSW	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.420	1.0	10.00	0	94.2	85	115				
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Sample ID: N062346-002B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	35.218	1.0	10.00	25.62	96.0	75	125				
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Sample ID: N062346-002B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180413						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020 EPA 3010A		Analysis Date: 1/14/2024	SeqNo: 5627422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	35.256	1.0	10.00	25.62	96.4	75	125	35.22	0.108	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-001

Client Sample ID: MW-20-070-0124
Collection Date: 1/11/2024 12:53:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	450	34	50		mg/L	100	1/12/2024 06:28 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	15	0.48	1.0		mg/L	20	1/12/2024 10:49 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-002

Client Sample ID: MW-20-100-0124
Collection Date: 1/11/2024 2:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	370	34	50		mg/L	100	1/12/2024 07:29 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	5.0	0.24	0.50		mg/L	10	1/12/2024 11:05 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-003

Client Sample ID: MW-20-130-0124
Collection Date: 1/11/2024 1:29:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	740	34	50		mg/L	100	1/12/2024 05:42 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	5.3	0.24	0.50		mg/L	10	1/12/2024 11:20 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-004

Client Sample ID: MW-21-0124
Collection Date: 1/11/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	920	34	50		mg/L	100	1/12/2024 07:45 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	1/12/2024 11:35 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-007

Client Sample ID: MW-67-185-0124
Collection Date: 1/11/2024 11:01:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333			PrepDate:		Analyst: RAB
Nitrate as N	34	9.6	20	mg/L	400	1/12/2024 11:50 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-008

Client Sample ID: MW-905-Q124
Collection Date: 1/11/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333	PrepDate:	Analyst: RAB
Nitrate as N	34 9.6	20 mg/L	400 1/12/2024 12:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-009

Client Sample ID: MW-71-035-0124
Collection Date: 1/11/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	610	34	50		mg/L	100	1/12/2024 08:00 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	1.3	0.24	0.50		mg/L	10	1/12/2024 12:21 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-010

Client Sample ID: MW-902-Q124
Collection Date: 1/11/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Sulfate	610	34	50		mg/L	100	1/12/2024 08:15 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240112A	QC Batch: R180333				PrepDate:		Analyst: RAB
Nitrate as N	1.3	0.24	0.50		mg/L	10	1/12/2024 12:36 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R180333_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: PBW	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: LCS-R180333_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: LCSW	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.059	0.50	4.000	0	101	90	110				

Sample ID: N062348-003BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1119.190	50	400.0	735.1	96.0	80	120				

Sample ID: N062348-003BMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1122.960	50	400.0	735.1	97.0	80	120	1119	0.336	20	

Sample ID: N062348-001BDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644585						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	446.910	50						446.7	0.0470	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R180333_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: PBW	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619725						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: LCS-R180333_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: LCSW	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.239 0.050 1.250 0 99.1 90 110

Sample ID: N062348-002BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 17.574 0.50 12.50 5.039 100 80 120

Sample ID: N062348-002BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 17.374 0.50 12.50 5.039 98.7 80 120 17.57 1.14 20

Sample ID: N062348-003BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZ	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 5.238 0.50 5.260 0.419 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: N062348-003BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ZZZZZZ	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5619740							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	17.874	0.50	12.50	5.260	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-001

Client Sample ID: MW-20-070-0124
Collection Date: 1/11/2024 12:53:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/13/2024 01:51 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-002

Client Sample ID: MW-20-100-0124
Collection Date: 1/11/2024 2:06:00 PM
Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: **NV00922-ICP3_240113A** QC Batch: **106013** PrepDate: **1/12/2024** Analyst: **DJ**
Iron ND 13 20 µg/L 1 1/13/2024 02:24 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-003

Client Sample ID: MW-20-130-0124
Collection Date: 1/11/2024 1:29:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	1/13/2024 02:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-004

Client Sample ID: MW-21-0124
Collection Date: 1/11/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ	
Iron	400	13	20	µg/L	1	1/13/2024 02:33 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-009

Client Sample ID: MW-71-035-0124
Collection Date: 1/11/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/13/2024 02:38 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-010

Client Sample ID: MW-902-Q124
Collection Date: 1/11/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240113A	QC Batch: 106013			PrepDate: 1/12/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	1/13/2024 02:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: MB-106013	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: PBW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621561
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: LCS1-106013	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: LCSW	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621562
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	105.254	20	100.0	0	105 85 115

Sample ID: N062348-001C-MS1	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: ZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621568
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	88.930	20	100.0	0	88.9 75 125

Sample ID: N062348-001C-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180362
Client ID: ZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A		Analysis Date: 1/13/2024	SeqNo: 5621569
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	89.450	20	100.0	0	89.4 75 125 88.93 0.583 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-001

Client Sample ID: MW-20-070-0124
Collection Date: 1/11/2024 12:53:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	1.0	0.050	0.10	µg/L	1	1/14/2024 10:52 PM	
Barium	31	0.083	1.0	µg/L	1	1/14/2024 10:52 PM	
Manganese	0.89	0.026	0.50	µg/L	1	1/14/2024 10:52 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-002

Client Sample ID: MW-20-100-0124
Collection Date: 1/11/2024 2:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240115F	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	0.44	0.050	0.10	µg/L	1	1/15/2024 09:10 PM	
Barium	33	0.083	1.0	µg/L	1	1/14/2024 11:11 PM	
Manganese	0.92	0.026	0.50	µg/L	1	1/14/2024 11:11 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-003

Client Sample ID: MW-20-130-0124
Collection Date: 1/11/2024 1:29:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/14/2024	11:16 PM
Barium	25	0.083	1.0	µg/L	1	1/14/2024	11:16 PM
Manganese	2.0	0.026	0.50	µg/L	1	1/14/2024	11:16 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-004

Client Sample ID: MW-21-0124
Collection Date: 1/11/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	6.1	0.050	0.10	µg/L	1	1/14/2024 11:20 PM	
Barium	67	0.083	1.0	µg/L	1	1/14/2024 11:20 PM	
Manganese	660	0.26	5.0	µg/L	10	1/15/2024 09:57 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-006

Client Sample ID: MW-68-180-0124
Collection Date: 1/11/2024 12:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240114D	QC Batch: 106016				PrepDate: 1/12/2024		Analyst: DJ
Molybdenum	47	0.12	0.50		µg/L	1	1/14/2024 11:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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 EPA ID CA01638

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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-007

Client Sample ID: MW-67-185-0124
Collection Date: 1/11/2024 11:01:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Manganese	130	0.026	0.50	µg/L	1	1/14/2024	11:30 PM
Molybdenum	19	0.12	0.50	µg/L	1	1/14/2024	11:30 PM
Selenium	130	0.044	0.50	µg/L	1	1/14/2024	11:30 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-008

Client Sample ID: MW-905-Q124
Collection Date: 1/11/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Manganese	130	0.026	0.50	µg/L	1	1/14/2024 11:34 PM	
Molybdenum	19	0.12	0.50	µg/L	1	1/14/2024 11:34 PM	
Selenium	130	0.044	0.50	µg/L	1	1/14/2024 11:34 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-009

Client Sample ID: MW-71-035-0124
Collection Date: 1/11/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/14/2024 11:39 PM	
Barium	35	0.083	1.0	µg/L	1	1/14/2024 11:39 PM	
Manganese	31	0.026	0.50	µg/L	1	1/14/2024 11:39 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 26-Jan-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062348
Project: PG&E Topock - PCM, 30121866
Lab ID: N062348-010

Client Sample ID: MW-902-Q124
Collection Date: 1/11/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240114D	QC Batch:	106016	PrepDate:	1/12/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	1/14/2024 11:44 PM	
Barium	36	0.083	1.0	µg/L	1	1/14/2024 11:44 PM	
Manganese	32	0.026	0.50	µg/L	1	1/14/2024 11:44 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-106016	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411						
Client ID: PBW	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630621						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: LCS-106016	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411						
Client ID: LCSW	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.165	0.10	10.00	0	91.6	85	115				
Barium	9.840	1.0	10.00	0	98.4	85	115				
Manganese	98.550	0.50	100.0	0	98.5	85	115				
Molybdenum	9.477	0.50	10.00	0	94.8	85	115				
Selenium	9.404	0.50	10.00	0	94.0	85	115				

Sample ID: N062346-002B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 1/12/2024	RunNo: 180411						
Client ID: ZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630627						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.975	0.10	10.00	5.293	96.8	75	125				
Barium	39.885	1.0	10.00	29.83	101	75	125				
Manganese	96.342	0.50	100.0	4.704	91.6	75	125				
Molybdenum	16.947	0.50	10.00	6.980	99.7	75	125				
Selenium	9.893	0.50	10.00	1.153	87.4	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062346-002B-MSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 1/12/2024		RunNo: 180411	
Client ID: ZZZZZZ		Batch ID: 106016		TestNo: EPA 6020 EPA 3010A				Analysis Date: 1/14/2024		SeqNo: 5630628	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.551	0.10	10.00	5.293	92.6	75	125	14.98	2.88	20	
Barium	40.000	1.0	10.00	29.83	102	75	125	39.89	0.286	20	
Manganese	96.894	0.50	100.0	4.704	92.2	75	125	96.34	0.571	20	
Molybdenum	16.929	0.50	10.00	6.980	99.5	75	125	16.95	0.102	20	
Selenium	10.077	0.50	10.00	1.153	89.2	75	125	9.893	1.84	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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SAMPLE RECEIVING ITEMS



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CHAIN OF CUSTODY RECORD

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 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
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 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436
 www.assetlaboratories.com

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		Address: 101 Creekside Ridge Court, Suite 200, Roseville, CA 95678		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email: dan.bush@arcadis.com		Email: mbloes@plivo.com		P.O.#		Phone: 949-727-1400, ext 200		Fax:		EDD Requirement		QA/QC		Sample Receipt Condition			
Address: 101 Creekside Ridge Court, Suite 200, Roseville, CA 95678		Company: Arcadis		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Excel EDD		RTNE		1. Chilled			
Address: Roseville, CA 95678		Email:		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Geotracker		CalTrans		2. Headspace			
Phone: 916-786-3302		Fax:		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Labspec		LEVEL III		3. Container Intact			
Submitted By: <i>Ruggie Top</i>		Title: <i>Field Tech</i>		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Others		LEVEL IV		4. Seal Present			
Signature: <i>MB</i> Date: <i>01/11/24</i>		Signature: <i>MB</i> Date: <i>01/11/24</i>		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Specify: RWQCB		Regulatory		5. IR number <i>3</i>			
Project Name: PG&E Topock - PCM		Project Number: 30121866		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Global ID:		Specify State:		6. Method of Cooling: <i>ICE</i>			
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Address:		Address:		Address:		Address:		Email:		Email:		P.O.#		Phone:		Fax:		Global ID:		Specify State:		Sample Temp: <i>0.3, 1.1, 1.8</i>			
Matrix		Ground		X		Sediment		250 mL poly		1 L poly		500mL poly		500mL poly		500mL poly		3x40 mL VOA		1 L poly		125 mL poly		1 L poly		Sample Receipt Condition			
Potable		Soil		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium, molybdenum		Dissolved metals (SW6020) FF; HNO3 Selenium, Manganese		Total Organic Carbon (SM5310C); H2SO4		Ammonia as Nitrogen (SM4500NH3D); H2SO4		Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)		Turn Around Time		No. of Container		Container Type		PRESERVATION	
NPDES		Other Solid		Sample Date		Sample Time		Others		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks			
Surface		Surface		1/11/2024		12:53				X		X		X		X		X		X		X		X		X			
1		N062348-001		✓ MW-20-070-0124		1/11/2024		12:53		X		X		X		X		X		X		X		X		X			
2		-002		✓ MW-20-100-0124		1/11/2024		14:06		X		X		X		X		X		X		X		X		X			
3		-003		✓ MW-20-130-0124		1/11/2024		13:29		X		X		X		X		X		X		X		X		X			
4		-004		✓ MW-21-0124		1/11/2024		10:16		X		X		X		X		X		X		X		X		X			
5		-005		✓ MW-21-EB-0124		1/11/2024		9:50		X		X		X		X		X		X		X		X		X			
6		-006		✓ MW-68-180-0124		1/11/2024		12:01		X		X		X		X		X		X		X		X		X			
7		-007		✓ MW-67-185-0124		1/11/2024		11:01		X		X		X		X		X		X		X		X		X			
8		-008		✓ MW-905-Q124		1/11/2024		11:11		X		X		X		X		X		X		X		X		X			
9		-009		✓ MW-71-035-0124		1/11/2024		9:35		X		X		X		X		X		X		X		X		X			
10		-010		✓ MW-902-Q124		1/11/2024		9:45		X		X		X		X		X		X		X		X		X			
11		-011		✓ EB-707-Q124		1/11/2024		14:15		X		X		X		X		X		X		X		X		X			
12																													
13																													
14																													
Relinquished by (Signature and Printed Name): <i>Ruggie Top</i> Date/Time: <i>01/11/24 1605</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1605</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>		Relinquished by (Signature and Printed Name): <i>M. SCARTIN</i> Date/Time: <i>1/11/24 @ 1810</i>	
Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:		Turn Around Time (TAT)		Special Instruction:			
A < 24 Hrs or Same Day TAT				B = Next Workday				C = 2 Workdays				D = 3 Workdays				E = Routine 5-7 Workdays				TAT Starts at 8 AM the following day if samples received after 3:00PM.				Preservatives:		Container Type:			
H=HCL		N=HNO3		S=H2SO4		C=4°C		T=Tube		V=VOA		P=Pin		Z=Zn(AC)2		O=NaOH		T=Na2S2O3		J=Jar		B=Tedlar		G=Glass		M=Metal			
Others/Specify: B		(NH4)2SO4/NH4OH		M=Metal		C=Can		M=Metal		C=Can		M=Metal		C=Can		M=Metal		C=Can		M=Metal		C=Can		M=Metal		C=Can			

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

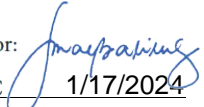
Cooler Received/Opened On: 1/11/2024 Workorder: N062348
 Rep sample Temp (Deg C): 0.3/1.1 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

For:
 Checklist Completed By: MBC E Fanegof 1/12/2024

Reviewed By: MBC  1/17/2024

ASSET Laboratories

WORK ORDER Summary

17-Jan-24

WorkOrder: N062348

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/11/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062348-001A	MW-20-070-0124	1/11/2024 12:53:00 PM	1/26/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-001B			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-001C			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-002A	MW-20-100-0124	1/11/2024 2:06:00 PM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-002B			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-002C			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-003A	MW-20-130-0124	1/11/2024 1:29:00 PM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-003B			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-003C			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-004A	MW-21-0124	1/11/2024 10:16:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

17-Jan-24

WorkOrder: N062348

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/11/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062348-004B	MW-21-0124	1/11/2024 10:16:00 AM	1/26/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-004C			1/26/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-005A	MW-21-EB-0124	1/11/2024 9:50:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-006A	MW-68-180-0124	1/11/2024 12:01:00 PM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-006B			1/26/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-007A	MW-67-185-0124	1/11/2024 11:01:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-007B			1/26/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-007C			1/26/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-008A	MW-905-Q124	1/11/2024 11:11:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-008B			1/26/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			1/26/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-008C			1/26/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062348-009A	MW-71-035-0124	1/11/2024 9:35:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

17-Jan-24

WorkOrder: N062348

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 1/11/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062348-009B	MW-71-035-0124	1/11/2024 9:35:00 AM	1/26/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-009C			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-010A	MW-902-Q124	1/11/2024 9:45:00 AM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-010B			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-010C			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-011A	EB-707-Q124	1/11/2024 2:15:00 PM	1/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062348-012A	FOLDER	1/26/2024	1/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/26/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062348

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180465
 ASSET #: N062348

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 1/16/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X					X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer RB 01172024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062348-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 5.2350 * 100$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 523.5000$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 520$$

Reviewed by:

d/Rocha 1/30/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,1
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/16/24 10:23 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/16/24 10:34 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/16/24 10:44 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/16/24 10:53 AM	Reported
13	MB-R180465	MBLK	1	Hexavalent Chromium	01/16/24 11:03 AM	Reported
14	LCS-R180465	LCS	1	Hexavalent Chromium	01/16/24 11:12 AM	Reported
15	N062315-001B	SAMP	1	Hexavalent Chromium	01/16/24 11:31 AM	Reported
16	N062315-002B	SAMP	1	Hexavalent Chromium	01/16/24 11:44 AM	Reported
17	N062315-003B	SAMP	1	Hexavalent Chromium	01/16/24 11:53 AM	Reported
18	N062315-004B	SAMP	1	Hexavalent Chromium	01/16/24 12:03 PM	Reported
19	N062315-001BREP	DUP	1	Hexavalent Chromium	01/16/24 12:12 PM	Reported
20	N062315-002BREP	DUP	1	Hexavalent Chromium	01/16/24 12:22 PM	Reported
21	N062315-003BREP	DUP	1	Hexavalent Chromium	01/16/24 12:31 PM	Reported
22	N062315-004BREP	DUP	1	Hexavalent Chromium	01/16/24 12:40 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/16/24 12:50 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/16/24 12:59 PM	Reported
25	MB-105998	MBLK	1	Hexavalent Chromium	01/16/24 1:09 PM	Reported
26	MB-106063	MBLK	1	Hexavalent Chromium	01/16/24 1:20 PM	Reported
27	N062315-001A	SAMP	1	Hexavalent Chromium	01/16/24 1:29 PM	Reported
28	N062315-001AREP	DUP	1	Hexavalent Chromium	01/16/24 1:39 PM	Reported
29	N062315-002A	SAMP	1	Hexavalent Chromium	01/16/24 1:48 PM	Reported
30	N062315-002AREP	DUP	1	Hexavalent Chromium	01/16/24 1:58 PM	Reported
31	N062315-003A	SAMP	1	Hexavalent Chromium	01/16/24 2:07 PM	Reported
32	N062315-003AREP	DUP	1	Hexavalent Chromium	01/16/24 2:17 PM	Reported
33	N062315-004A	SAMP	1	Hexavalent Chromium	01/16/24 2:26 PM	Reported
34	N062315-004AREP	DUP	1	Hexavalent Chromium	01/16/24 2:35 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/16/24 2:45 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/16/24 2:54 PM	Reported
37	N062348-003A	SAMP	500	Hexavalent Chromium	01/16/24 3:04 PM	Reported
38	N062348-003AMS	MS	500	Hexavalent Chromium	01/16/24 3:13 PM	Reported
39	N062348-003AMSD	MSD	500	Hexavalent Chromium	01/16/24 3:23 PM	Reported
40	N062348-002A	SAMP	500	Hexavalent Chromium	01/16/24 3:32 PM	Reported
41	N062348-002ADUP	DUP	500	Hexavalent Chromium	01/16/24 3:42 PM	Reported
42	N062348-002AMS	MS	500	Hexavalent Chromium	01/16/24 3:51 PM	Reported

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062348-001A	SAMP	100	Hexavalent Chromium	01/16/24 4:01 PM	Reported
44	N062348-001AMS	MS	100	Hexavalent Chromium	01/16/24 4:13 PM	Reported
45	N062348-006A	SAMP	5000	Hexavalent Chromium	01/16/24 4:24 PM	Reported
46	N062348-006AMS	MS	5000	Hexavalent Chromium	01/16/24 4:33 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/16/24 4:43 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/16/24 4:52 PM	Reported
49	N062348-007A	SAMP	400	Hexavalent Chromium	01/16/24 5:01 PM	Reported
50	N062348-007AMS	MS	400	Hexavalent Chromium	01/16/24 5:11 PM	Reported
51	N062348-008A	SAMP	400	Hexavalent Chromium	01/16/24 5:20 PM	Reported
52	N062348-008AMS	MS	400	Hexavalent Chromium	01/16/24 5:30 PM	Reported
53	N062348-004A	SAMP	1	Hexavalent Chromium	01/16/24 5:39 PM	Reported
54	N062348-004AMS	MS	1	Hexavalent Chromium	01/16/24 5:49 PM	Reported
55	N062348-009A	SAMP	1	Hexavalent Chromium	01/16/24 5:58 PM	Reported
56	N062348-009AMS	MS	1	Hexavalent Chromium	01/16/24 6:08 PM	Reported
57	N062348-010A	SAMP	1	Hexavalent Chromium	01/16/24 6:17 PM	Reported
58	N062348-010AMS	MS	1	Hexavalent Chromium	01/16/24 6:27 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/16/24 6:36 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/16/24 6:46 PM	Reported
61	N062348-005A	SAMP	1	Hexavalent Chromium	01/16/24 6:55 PM	Reported
62	N062348-005AMS	MS	1	Hexavalent Chromium	01/16/24 7:04 PM	Reported
63	N062348-011A	SAMP	1	Hexavalent Chromium	01/16/24 7:14 PM	Reported
64	N062348-011AMS	MS	1	Hexavalent Chromium	01/16/24 7:23 PM	Reported
65	MB-R180466	MBLK	1	Hexavalent Chromium	01/16/24 7:33 PM	Reported
66	LCS-R180466	LCS	1	Hexavalent Chromium	01/16/24 7:42 PM	Reported
67	N062352-001A	SAMP	5	Hexavalent Chromium	01/16/24 7:52 PM	Reported
68	N062352-001ADUP	DUP	5	Hexavalent Chromium	01/16/24 8:01 PM	Reported
69	N062352-001AMS	MS	5	Hexavalent Chromium	01/16/24 8:11 PM	Reported
70	N062352-001AMSD	MSD	5	Hexavalent Chromium	01/16/24 8:20 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/16/24 8:30 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/16/24 8:39 PM	Reported
73	N062352-002A	SAMP	5	Hexavalent Chromium	01/16/24 8:49 PM	Reported
74	N062352-002AMS	MS	5	Hexavalent Chromium	01/16/24 8:58 PM	Reported
75	N062351-002A	SAMP	1	Hexavalent Chromium	01/16/24 9:07 PM	Reported
76	N062351-011A	SAMP	1	Hexavalent Chromium	01/16/24 9:17 PM	Reported
77	N062373-003A	SAMP	1	Hexavalent Chromium	01/16/24 9:26 PM	Reported
78	N062373-004A	SAMP	1	Hexavalent Chromium	01/16/24 9:36 PM	Reported
79	N062373-005A	SAMP	1	Hexavalent Chromium	01/16/24 9:45 PM	Reported
80	N062373-006A	SAMP	1	Hexavalent Chromium	01/16/24 9:55 PM	Reported
81	N062373-007A	SAMP	1	Hexavalent Chromium	01/16/24 10:04 PM	Reported
82	N062373-008A	SAMP	1	Hexavalent Chromium	01/16/24 10:14 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/16/24 10:23 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/16/24 10:33 PM	Reported

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062373-009A	SAMP	1	Hexavalent Chromium	01/16/24 10:42 PM	Reported
86	N062373-010A	SAMP	1	Hexavalent Chromium	01/16/24 10:51 PM	Reported
87	N062373-011A	SAMP	500	Hexavalent Chromium	01/16/24 11:01 PM	Reported
88	N062373-012A	SAMP	500	Hexavalent Chromium	01/16/24 11:10 PM	Reported
89	N062373-013A	SAMP	1	Hexavalent Chromium	01/16/24 11:20 PM	Reported
90	N062373-014A	SAMP	1	Hexavalent Chromium	01/16/24 11:29 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/16/24 11:39 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/16/24 11:48 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240116A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	17/Jan/24 00:19:03
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/16/2024 10:23	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/16/2024 10:34	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/16/2024 10:44	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/16/2024 10:53	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/16/2024 11:03	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/16/2024 11:12	Finished	LCS @5ppb, IWST-231228B
15	N062315-001B,SAMP	1	1000	Unknown		01/16/2024 11:31	Finished	SAMP,10 mL
16	N062315-002B,SAMP	2	1000	Unknown		01/16/2024 11:44	Finished	SAMP,10 mL
17	N062315-003B,SAMP	3	1000	Unknown		01/16/2024 11:53	Finished	SAMP,10 mL
18	N062315-004B,SAMP	4	1000	Unknown		01/16/2024 12:03	Finished	SAMP,10 mL
19	N062315-001BREP,D	5	1000	Unknown		01/16/2024 12:12	Finished	REP,10 mL
20	N062315-002BREP,D	6	1000	Unknown		01/16/2024 12:22	Finished	REP,10 mL
21	N062315-003BREP,D	7	1000	Unknown		01/16/2024 12:31	Finished	REP,10 mL
22	N062315-004BREP,D	8	1000	Unknown		01/16/2024 12:40	Finished	REP,10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/16/2024 12:50	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/16/2024 12:59	Finished	CCB R231030A
25	MB-105998,MBLK,1,	11	1000	Unknown		01/16/2024 13:09	Finished	MB STLC
26	MB-106063,MBLK,1,	12	1000	Unknown		01/16/2024 13:20	Finished	MB TCLP
27	N062315-001A,SAMP	13	1000	Unknown		01/16/2024 13:29	Finished	SAMP,10 mL
28	N062315-001AREP,D	14	1000	Unknown		01/16/2024 13:39	Finished	REP,10 mL
29	N062315-002A,SAMP	15	1000	Unknown		01/16/2024 13:48	Finished	SAMP,10 mL
30	N062315-002AREP,D	16	1000	Unknown		01/16/2024 13:58	Finished	REP,10 mL
31	N062315-003A,SAMP	17	1000	Unknown		01/16/2024 14:07	Finished	SAMP,10 mL
32	N062315-003AREP,D	18	1000	Unknown		01/16/2024 14:17	Finished	REP,10 mL
33	N062315-004A,SAMP	19	1000	Unknown		01/16/2024 14:26	Finished	SAMP,10 mL
34	N062315-004AREP,D	20	1000	Unknown		01/16/2024 14:35	Finished	REP,10 mL
35	CCV-3,CCV,1,	21	1000	Unknown		01/16/2024 14:45	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		01/16/2024 14:54	Finished	CCB R231227C
37	N062348-003A,SAMP	23	1000	Unknown		01/16/2024 15:04	Finished	SAMP,0.02>10 mL
38	N062348-003AMS,MS	24	1000	Unknown		01/16/2024 15:13	Finished	MS (5ppb), IWST-231228B,0.0
39	N062348-003AMSD,N	25	1000	Unknown		01/16/2024 15:23	Finished	MSD (5ppb), IWST-231228B,0.0
40	N062348-002A,SAMP	26	1000	Unknown		01/16/2024 15:32	Finished	SAMP,0.02>10 mL
41	N062348-002ADUP,D	27	1000	Unknown		01/16/2024 15:42	Finished	DUP,0.02>10 mL
42	N062348-002AMS,MS	28	1000	Unknown		01/16/2024 15:51	Finished	MS (5ppb), IWST-231228B,0.0
43	N062348-001A,SAMP	29	1000	Unknown		01/16/2024 16:01	Finished	SAMP,0.1>10 mL
44	N062348-001AMS,MS	1	1000	Unknown		01/16/2024 16:13	Finished	MS (5ppb), IWST-231228B,0.1
45	N062348-006A,SAMP	2	1000	Unknown		01/16/2024 16:24	Finished	SAMP,0.002>10 mL
46	N062348-006AMS,MS	3	1000	Unknown		01/16/2024 16:33	Finished	MS (5ppb), IWST-231228B,0.0
47	CCV-4,CCV1,1,	4	1000	Unknown		01/16/2024 16:43	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	5	1000	Unknown		01/16/2024 16:52	Finished	CCB R231030A
49	N062348-007A,SAMP	6	1000	Unknown		01/16/2024 17:01	Finished	SAMP,0.025>10 mL
50	N062348-007AMS,MS	7	1000	Unknown		01/16/2024 17:11	Finished	MS (1ppb), IWST-231228B,0.0
51	N062348-008A,SAMP	8	1000	Unknown		01/16/2024 17:20	Finished	SAMP,0.025>10 mL
52	N062348-008AMS,MS	9	1000	Unknown		01/16/2024 17:30	Finished	MS (1ppb), IWST-231228B,0.0
53	N062348-004A,SAMP	10	1000	Unknown		01/16/2024 17:39	Finished	SAMP,10 mL
54	N062348-004AMS,MS	11	1000	Unknown		01/16/2024 17:49	Finished	MS (1ppb), IWST-231228B,10r
55	N062348-009A,SAMP	12	1000	Unknown		01/16/2024 17:58	Finished	SAMP,10 mL
56	N062348-009AMS,MS	13	1000	Unknown		01/16/2024 18:08	Finished	MS (1ppb), IWST-231228B,10r
57	N062348-010A,SAMP	14	1000	Unknown		01/16/2024 18:17	Finished	SAMP,10 mL
58	N062348-010AMS,MS	15	1000	Unknown		01/16/2024 18:27	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	16	1000	Unknown		01/16/2024 18:36	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	17	1000	Unknown		01/16/2024 18:46	Finished	CCB R231227C

61	N062348-005A,SAMP	18	1000	Unknown		01/16/2024 18:55	Finished	SAMP,10 mL
62	N062348-005AMS,MS	19	1000	Unknown		01/16/2024 19:04	Finished	MS (1ppb), IWST-231228B,10r
63	N062348-011A,SAMP	20	1000	Unknown		01/16/2024 19:14	Finished	SAMP,10 mL
64	N062348-011AMS,MS	21	1000	Unknown		01/16/2024 19:23	Finished	MS (1ppb), IWST-231228B,10r
65	MB-2,MBLK,1,	22	1000	Unknown		01/16/2024 19:33	Finished	MB R231227C
66	LCS-2,LCS,1,	23	1000	Unknown		01/16/2024 19:42	Finished	LCS @5ppb, IWST-231228B
67	N062352-001A,SAMP	24	1000	Unknown		01/16/2024 19:52	Finished	SAMP,2>10 mL
68	N062352-001ADUP,D	25	1000	Unknown		01/16/2024 20:01	Finished	DUP,2>10 mL
69	N062352-001AMS,MS	26	1000	Unknown		01/16/2024 20:11	Finished	MS (5ppb), IWST-231228B,2>
70	N062352-001AMSD,R	27	1000	Unknown		01/16/2024 20:20	Finished	MSD (5ppb), IWST-231228B,2
71	CCV-6,CCV1,1,	28	1000	Unknown		01/16/2024 20:30	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown		01/16/2024 20:39	Finished	CCB R231227C
73	N062352-002A,SAMP	30	1000	Unknown		01/16/2024 20:49	Finished	SAMP,2>10 mL
74	N062352-002AMS,MS	31	1000	Unknown		01/16/2024 20:58	Finished	MS (5ppb), IWST-231228B,2>
75	N062351-002A,SAMP	32	1000	Unknown		01/16/2024 21:07	Finished	SAMP,10 mL
76	N062351-011A,SAMP	33	1000	Unknown		01/16/2024 21:17	Finished	SAMP,10 mL
77	N062373-003A,SAMP	34	1000	Unknown		01/16/2024 21:26	Finished	SAMP,10 mL
78	N062373-004A,SAMP	35	1000	Unknown		01/16/2024 21:36	Finished	SAMP,10 mL
79	N062373-005A,SAMP	36	1000	Unknown		01/16/2024 21:45	Finished	SAMP,10 mL
80	N062373-006A,SAMP	37	1000	Unknown		01/16/2024 21:55	Finished	SAMP,10 mL
81	N062373-007A,SAMP	38	1000	Unknown		01/16/2024 22:04	Finished	SAMP,10 mL
82	N062373-008A,SAMP	39	1000	Unknown		01/16/2024 22:14	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown		01/16/2024 22:23	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown		01/16/2024 22:33	Finished	CCB R231227C
85	N062373-009A,SAMP	42	1000	Unknown		01/16/2024 22:42	Finished	SAMP,10 mL
86	N062373-010A,SAMP	43	1000	Unknown		01/16/2024 22:51	Finished	SAMP,10 mL
87	N062373-011A,SAMP	44	1000	Unknown		01/16/2024 23:01	Finished	SAMP,0.02>10 mL
88	N062373-012A,SAMP	45	1000	Unknown		01/16/2024 23:10	Finished	SAMP,0.02>10 mL
89	N062373-013A,SAMP	46	1000	Unknown		01/16/2024 23:20	Finished	SAMP,10 mL
90	N062373-014A,SAMP	47	1000	Unknown		01/16/2024 23:29	Finished	SAMP,10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown		01/16/2024 23:39	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown		01/16/2024 23:48	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown		01/16/2024 23:58	Finished	
94	Eluent: R240114A	51	1000	Unknown		n.a.	Finished	
95	PCR: R240114B	CurrentVia	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 1/11/24
 Time Prepared: 11:5/14:00H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A
 NH4OH + NH4SO4 buffer: N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	M62312-8A	9.60	-	-200 u	-200 u		
2)	9A	9.67	-				
3)	10A	9.08	9.49			+5	
4)	11A	9.72	-				
5)	12A	9.73	-				
6)	13A	9.76	-				
7)	14A	9.44	-				
8)	15A	9.32	-				
9)	16A	9.30	-				
10)	17A	9.37	-				
11)	18A	9.31	-				
12)	19A	9.69	-				
13)	M62314-20	7.05	9.50			+0.2u N231228B / 10u PV	
14)							
15)							

Sample Preparation

Date Prepared: 1/12/24
 Time Prepared: 11:00H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14775
 Diphenylcarbazide: 15709
 NH4OH + NH4SO4 eluent: N240108A
 NH4OH + NH4SO4 buffer: N231228B
 6N NaOH
 N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	M62345-03	7.48	9.47	-200uL	100u	+0.2u N231228B / 10u PV	
2)	M62346-1A	9.39	-				
3)	2A	9.47	-				
4)	3A	7.68	-				
5)	M62348-1A	9.31	-				
6)	2A	9.42	-				
7)	3A	9.44	-				
8)	4A	9.11	9.49			+4	
9)	5A	9.72	-				
10)	6A	9.31	-				
11)	7A	8.81	9.54			+5	
12)	8A	8.85	9.53			+5	
13)	9A	9.39	-				
14)	10A	9.45	-				
15)	11A	9.74	-				
	M62310-10	9.47	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert N2022
 ORELAP Cert 4046 (EPA TO15 & TO3)

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR CONSTRUCTION AND INFRASTRUCTURE

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 12/29/2023

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0412	0.2038	1.0254	2.0894	3.1241	4.1591	1.0000

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ICV	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5630062						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.932 0.20 5.000 0 98.6 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5630063						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.207 0.20 0.2000 0 103 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCV	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.004 0.20 5.000 0 100 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.205 0.20 0.2000 0 103 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 10.137 0.20 10.00 0 101 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: CCV	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630090	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.958	0.20	5.000	0	99.2	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630102	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.146	0.20	10.00	0	101	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: CCV	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.080	0.20	5.000	0	102	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465
Client ID: ZZZZZ	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630120	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	9.967	0.20	10.00	0	99.7	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: ICB	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 12/29/2023	SeqNo: 5630064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6		Analysis Date: 1/16/2024	SeqNo: 5630103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 180465						
Client ID: CCB	Batch ID: R180465	TestNo: EPA 218.6	Analysis Date: 1/16/2024	SeqNo: 5630121							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/16/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.031	
CCV-2	4.031	
CCV-3	4.023	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	
CCV-8	4.031	

Average 4.030
Actual RT Window 3.950 - 4.110
Applied RT Window 3.830 - 4.230

MB-R180465	N.A.	N.A.
LCS-R180465	4.023	PASS
N062315-001B	4.031	PASS
N062315-002B	4.023	PASS
N062315-003B	4.023	PASS
N062315-004B	4.023	PASS
N062315-001BREP	4.023	PASS
N062315-002BREP	4.023	PASS
N062315-003BREP	4.023	PASS
N062315-004BREP	4.023	PASS
MB-105998	N.A.	N.A.
MB-106063	N.A.	N.A.
N062315-001A	4.023	PASS
N062315-001AREP	4.031	PASS
N062315-002A	4.031	PASS
N062315-002AREP	4.040	PASS
N062315-003A	4.031	PASS
N062315-003AREP	4.031	PASS
N062315-004A	4.015	PASS
N062315-004AREP	4.023	PASS

Reviewed by:

d/Recha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/16/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.031	
CCV-2	4.031	
CCV-3	4.023	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	
CCV-8	4.031	

Average 4.030
Actual RT Window 3.950 - 4.110
Applied RT Window 3.830 - 4.230

N062348-003A	4.031	PASS
N062348-003AMS	4.023	PASS
N062348-003AMSD	4.023	PASS
N062348-002A	4.023	PASS
N062348-002ADUP	4.031	PASS
N062348-002AMS	4.023	PASS
N062348-001A	4.023	PASS
N062348-001AMS	4.031	PASS
N062348-006A	4.023	PASS
N062348-006AMS	4.031	PASS
N062348-007A	4.031	PASS
N062348-007AMS	4.031	PASS
N062348-008A	4.023	PASS
N062348-008AMS	4.023	PASS
N062348-004A	3.981	PASS
N062348-004AMS	3.831	PASS
N062348-009A	3.898	PASS
N062348-009AMS	3.898	PASS
N062348-010A	3.915	PASS
N062348-010AMS	3.906	PASS

Reviewed by:

dMocha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/16/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.031	
CCV-2	4.031	
CCV-3	4.023	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	
CCV-8	4.031	

Average 4.030
Actual RT Window 3.950 - 4.110
Applied RT Window 3.830 - 4.230

N062348-005A	N.A.	N.A.
N062348-005AMS	4.031	PASS
N062348-011A	N.A.	N.A.
N062348-011AMS	4.031	PASS
MB-R180466	N.A.	N.A.
LCS-R180466	4.023	PASS
N062352-001A	4.023	PASS
N062352-001ADUP	4.023	PASS
N062352-001AMS	4.023	PASS
N062352-001AMSD	4.023	PASS
N062352-002A	4.023	PASS
N062352-002AMS	4.023	PASS
N062351-002A	4.023	PASS
N062351-011A	4.023	PASS
N062373-003A	4.015	PASS
N062373-004A	4.006	PASS
N062373-005A	4.015	PASS
N062373-006A	3.998	PASS
N062373-007A	4.006	PASS
N062373-008A	4.023	PASS

Reviewed by:

d/Recha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 1/16/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.023	
CCV-1	4.031	
CCV-2	4.031	
CCV-3	4.023	
CCV-4	4.031	
CCV-5	4.031	
CCV-6	4.031	
CCV-7	4.031	
CCV-8	4.031	

Average 4.030
Actual RT Window 3.950 - 4.110
Applied RT Window 3.830 - 4.230

N062373-009A	N.A.	N.A.
N062373-010A	4.023	PASS
N062373-011A	4.031	PASS
N062373-012A	4.031	PASS
N062373-013A	N.A.	N.A.
N062373-014A	N.A.	N.A.

Reviewed by:

d/Rocha 1/31/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 231229A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	12/29/23 11:20 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	12/29/23 11:29 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	12/29/23 11:39 AM	Reported
12	MB-R180029	MBLK	1	Hexavalent Chromium	12/29/23 11:48 AM	Reported
13	LCS-R180029	LCS	1	Hexavalent Chromium	12/29/23 11:58 AM	Reported
14	N062034-001B	SAMP	1	Hexavalent Chromium	12/29/23 12:29 PM	Reported
15	N062060-001A	SAMP	1	Hexavalent Chromium	12/29/23 12:42 PM	Reported
16	N062060-002A	SAMP	1	Hexavalent Chromium	12/29/23 12:51 PM	Reported
17	N062034-001BMS	MS	1	Hexavalent Chromium	12/29/23 1:01 PM	Reported
18	N062034-001BMSD	MSD	1	Hexavalent Chromium	12/29/23 1:10 PM	Reported
19	N062034-001BREP	DUP	1	Hexavalent Chromium	12/29/23 1:20 PM	Reported
20	N062060-001AREP	DUP	1	Hexavalent Chromium	12/29/23 1:29 PM	Reported
21	N062060-002AREP	DUP	1	Hexavalent Chromium	12/29/23 1:39 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	12/29/23 1:48 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	12/29/23 1:57 PM	Reported
24	N061839-014A	SAMP	5	Hexavalent Chromium	12/29/23 3:27 PM	Not Reported
25	N061839-014AMS	MS	5	Hexavalent Chromium	12/29/23 3:41 PM	Not Reported
26	N061839-015A	SAMP	1	Hexavalent Chromium	12/29/23 3:51 PM	Not Reported
27	N061839-015AMS	MS	1	Hexavalent Chromium	12/29/23 4:00 PM	Not Reported
28	N061839-016A	SAMP	1	Hexavalent Chromium	12/29/23 4:10 PM	Not Reported
29	N061839-016AMS	MS	1	Hexavalent Chromium	12/29/23 4:19 PM	Not Reported
30	N062092-001A	SAMP	1	Hexavalent Chromium	12/29/23 4:36 PM	Reported
31	N062092-002A	SAMP	1	Hexavalent Chromium	12/29/23 4:48 PM	Reported
32	N062092-001AREP	DUP	1	Hexavalent Chromium	12/29/23 4:58 PM	Reported
33	N062092-002AREP	DUP	1	Hexavalent Chromium	12/29/23 5:07 PM	Reported
34	CCV-2	CCV	1	Hexavalent Chromium	12/29/23 5:17 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	12/29/23 5:26 PM	Reported
36	N061840-007A	SAMP	1	Hexavalent Chromium	12/29/23 5:35 PM	Not Reported
37	N061840-007AMS	MS	1	Hexavalent Chromium	12/29/23 5:45 PM	Not Reported
38	N061840-009A	SAMP	1	Hexavalent Chromium	12/29/23 5:54 PM	Not Reported
39	N061840-009AMS	MS	1	Hexavalent Chromium	12/29/23 6:04 PM	Not Reported
40	N061839-018A	SAMP	1	Hexavalent Chromium	12/29/23 6:13 PM	Not Reported
41	N061839-018AMS	MS	1	Hexavalent Chromium	12/29/23 6:23 PM	Not Reported
42	N061839-019A	SAMP	1	Hexavalent Chromium	12/29/23 6:32 PM	Not Reported

INJECTION LOG: 231229A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N061839-019AMS	MS	1	Hexavalent Chromium	12/29/23 6:42 PM	Not Reported
44	N061878-001A	SAMP	5	Hexavalent Chromium	12/29/23 6:51 PM	Not Reported
45	N061878-001AMS	MS	5	Hexavalent Chromium	12/29/23 7:01 PM	Not Reported
46	CCV-3	CCV1	1	Hexavalent Chromium	12/29/23 7:11 PM	Not Reported
47	CCB-3	CCB	1	Hexavalent Chromium	12/29/23 7:20 PM	Not Reported
48	N061881-001A	SAMP	1	Hexavalent Chromium	12/29/23 7:30 PM	Not Reported
49	N061881-001AMS	MS	1	Hexavalent Chromium	12/29/23 7:39 PM	Not Reported
50	N061881-003A	SAMP	1	Hexavalent Chromium	12/29/23 7:49 PM	Not Reported
51	N061881-003AMS	MS	1	Hexavalent Chromium	12/29/23 7:58 PM	Not Reported
52	CCV-4	CCV1	1	Hexavalent Chromium	12/29/23 8:08 PM	Not Reported
53	CCB-4	CCB	1	Hexavalent Chromium	12/29/23 8:18 PM	Not Reported
54	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 8:27 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_231229A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Jan/24 11:18:45
No. of Injections:	57	Updated By:	ics 5000

Injection Details

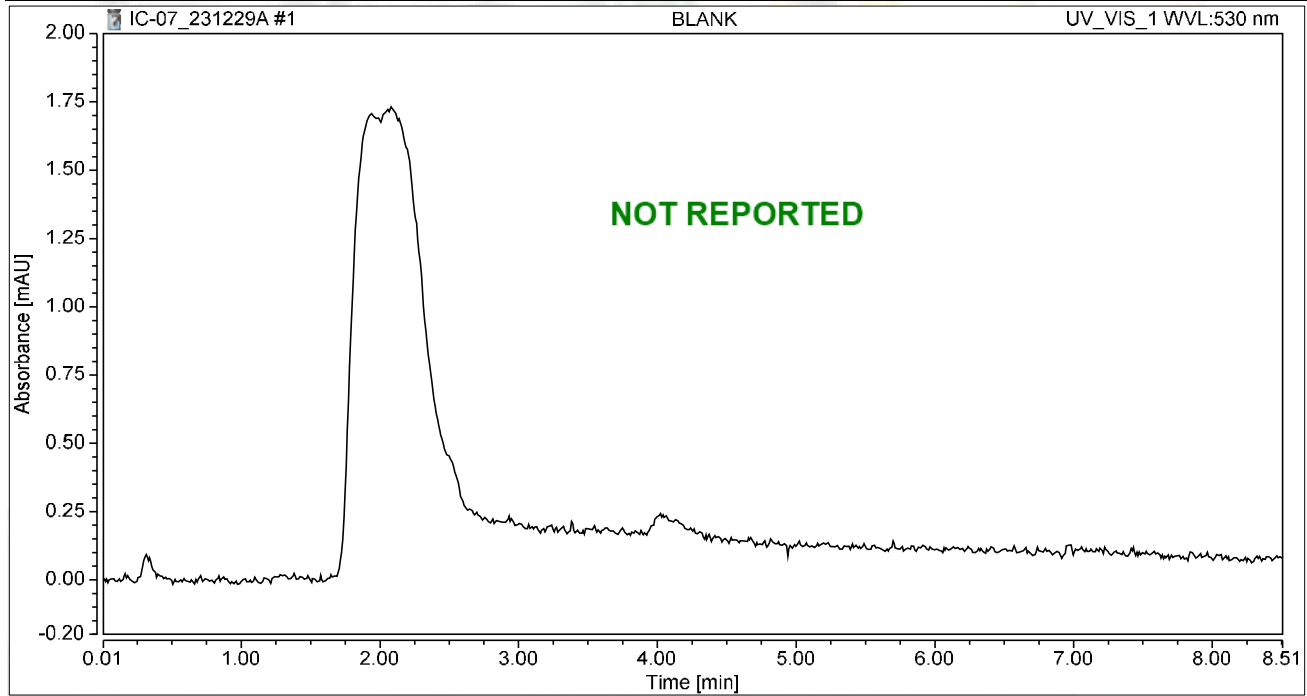
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1	9	1000	Unknown		12/29/2023 11:20	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		12/29/2023 11:29	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		12/29/2023 11:39	Finished	ICB R231228C
12	MB-H2O,MBLK,1,	12	1000	Unknown		12/29/2023 11:48	Finished	MB R231030C
13	LCS-H2O,LCS,1,	13	1000	Unknown		12/29/2023 11:58	Finished	LCS @5ppb, IWST-231228B
14	N062034-001B,SAMF	1	1000	Unknown		12/29/2023 12:29	Finished	SAMP,10 mL
15	N062060-001A,SAMF	2	1000	Unknown		12/29/2023 12:42	Finished	SAMP,10 mL
16	N062060-002A,SAMF	3	1000	Unknown		12/29/2023 12:51	Finished	SAMP,10 mL
17	N062034-001BMS,MS	4	1000	Unknown		12/29/2023 13:01	Finished	MS (1ppb), IWST-231228B,10r
18	N062034-001BMSD,N	5	1000	Unknown		12/29/2023 13:10	Finished	MSD (1ppb), IWST-231228B,10r
19	N062034-001BREP,D	6	1000	Unknown		12/29/2023 13:20	Finished	REP,10 mL
20	N062060-001AREP,D	7	1000	Unknown		12/29/2023 13:29	Finished	REP,10 mL
21	N062060-002AREP,D	8	1000	Unknown		12/29/2023 13:39	Finished	REP,10 mL
22	CCV-1,CCV1,1,	9	1000	Unknown		12/29/2023 13:48	Finished	CCV @10ppb, IWST-231228A
23	CCB-1,CCB,1,	10	1000	Unknown		12/29/2023 13:57	Finished	CCB R231020A
24	N061839-014A,SAMF	1	1000	Unknown		12/29/2023 15:27	Finished	SAMP,2>10 mL
25	N061839-014AMS,MS	2	1000	Unknown		12/29/2023 15:41	Finished	MS (1ppb), IWST-231228B,2>10r
26	N061839-015A,SAMF	3	1000	Unknown		12/29/2023 15:51	Finished	SAMP,10 mL
27	N061839-015AMS,MS	4	1000	Unknown		12/29/2023 16:00	Finished	MS (1ppb), IWST-231228B,10r
28	N061839-016A,SAMF	5	1000	Unknown		12/29/2023 16:10	Finished	SAMP,10 mL
29	N061839-016AMS,MS	6	1000	Unknown		12/29/2023 16:19	Finished	MS (1ppb), IWST-231228B,10r
30	N062092-001A,SAMF	1	1000	Unknown		12/29/2023 16:36	Finished	SAMP,10 mL
31	N062092-002A,SAMF	2	1000	Unknown		12/29/2023 16:48	Finished	SAMP,10 mL
32	N062092-001AREP,D	3	1000	Unknown		12/29/2023 16:58	Finished	REP,10 mL
33	N062092-002AREP,D	4	1000	Unknown		12/29/2023 17:07	Finished	REP,10 mL
34	CCV-2,CCV,1,	5	1000	Unknown		12/29/2023 17:17	Finished	CCV @5ppb, IWST-231228A
35	CCB-2,CCB,1,	6	1000	Unknown		12/29/2023 17:26	Finished	CCB R231020A
36	N061840-007A,SAMF	7	1000	Unknown		12/29/2023 17:35	Finished	SAMP,10 mL
37	N061840-007AMS,MS	8	1000	Unknown		12/29/2023 17:45	Finished	MS (1ppb), IWST-231228B,10r
38	N061840-009A,SAMF	9	1000	Unknown		12/29/2023 17:54	Finished	SAMP,10 mL
39	N061840-009AMS,MS	10	1000	Unknown		12/29/2023 18:04	Finished	MS (1ppb), IWST-231228B,10r
40	N061839-018A,SAMF	11	1000	Unknown		12/29/2023 18:13	Finished	SAMP,10 mL
41	N061839-018AMS,MS	12	1000	Unknown		12/29/2023 18:23	Finished	MS (1ppb), IWST-231228B,10r
42	N061839-019A,SAMF	13	1000	Unknown		12/29/2023 18:32	Finished	SAMP,10 mL
43	N061839-019AMS,MS	14	1000	Unknown		12/29/2023 18:42	Finished	MS (1ppb), IWST-231228B,10r
44	N061878-001A,SAMF	15	1000	Unknown		12/29/2023 18:51	Finished	SAMP,2>10 mL
45	N061878-001AMS,MS	16	1000	Unknown		12/29/2023 19:01	Finished	MS (5ppb), IWST-231228B,2>10r
46	CCV-3,CCV1,1,	17	1000	Unknown		12/29/2023 19:11	Finished	CCV @10ppb, IWST-231228A
47	CCB-3,CCB,1,	18	1000	Unknown		12/29/2023 19:20	Finished	CCB R231020A
48	N061881-001A,SAMF	19	1000	Unknown		12/29/2023 19:30	Finished	SAMP,10 mL
49	N061881-001AMS,MS	20	1000	Unknown		12/29/2023 19:39	Finished	MS (1ppb), IWST-231228B,10r
50	N061881-003A,SAMF	21	1000	Unknown		12/29/2023 19:49	Finished	SAMP,10 mL
51	N061881-003AMS,MS	22	1000	Unknown		12/29/2023 19:58	Finished	MS (5ppb), IWST-231228B,10r
52	CCV-4,CCV1,1,	23	1000	Unknown		12/29/2023 20:08	Finished	CCV @10ppb, IWST-231228A
53	CCB-4,CCB,1,	24	1000	Unknown		12/29/2023 20:18	Finished	CCB R231020A
54	BLANK	25	1000	Unknown		12/29/2023 20:27	Finished	BLANK
55	SHUTDOWN	26	1000	Unknown		12/29/2023 20:36	Finished	
56	Eluent: R231227A	27	1000	Unknown		n.a.	Finished	
57	PCR: R231227B	28	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

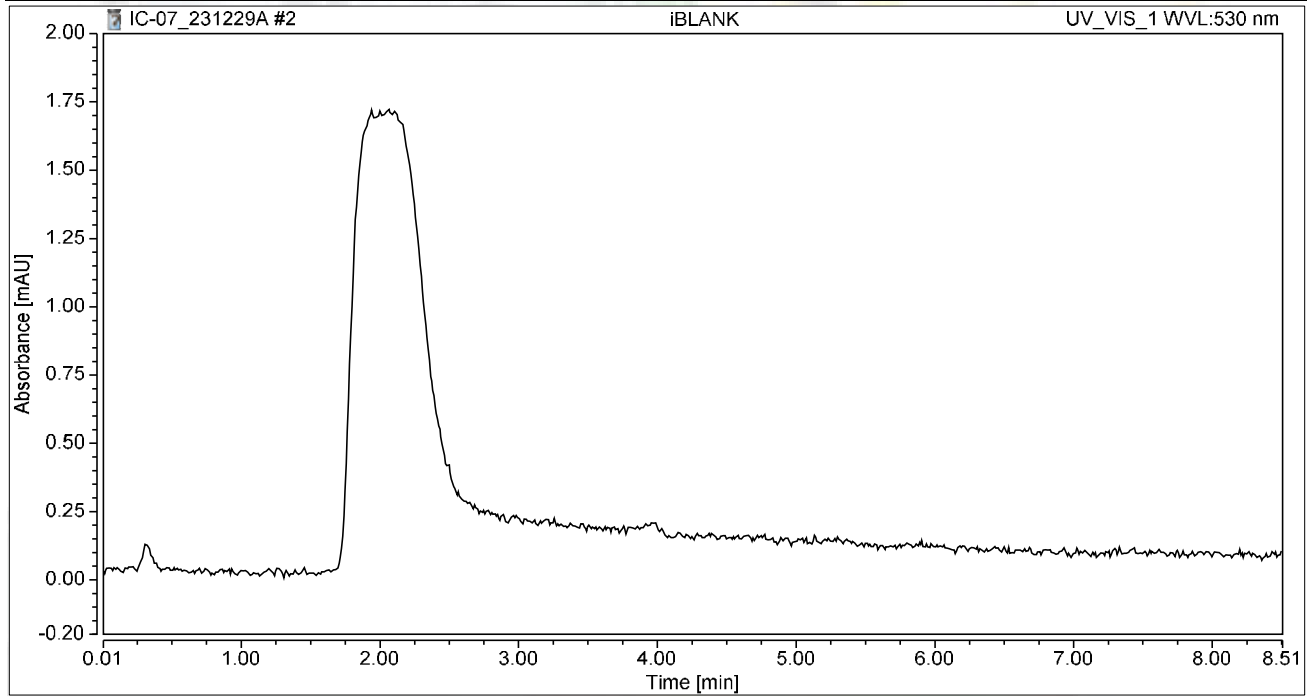
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Denny

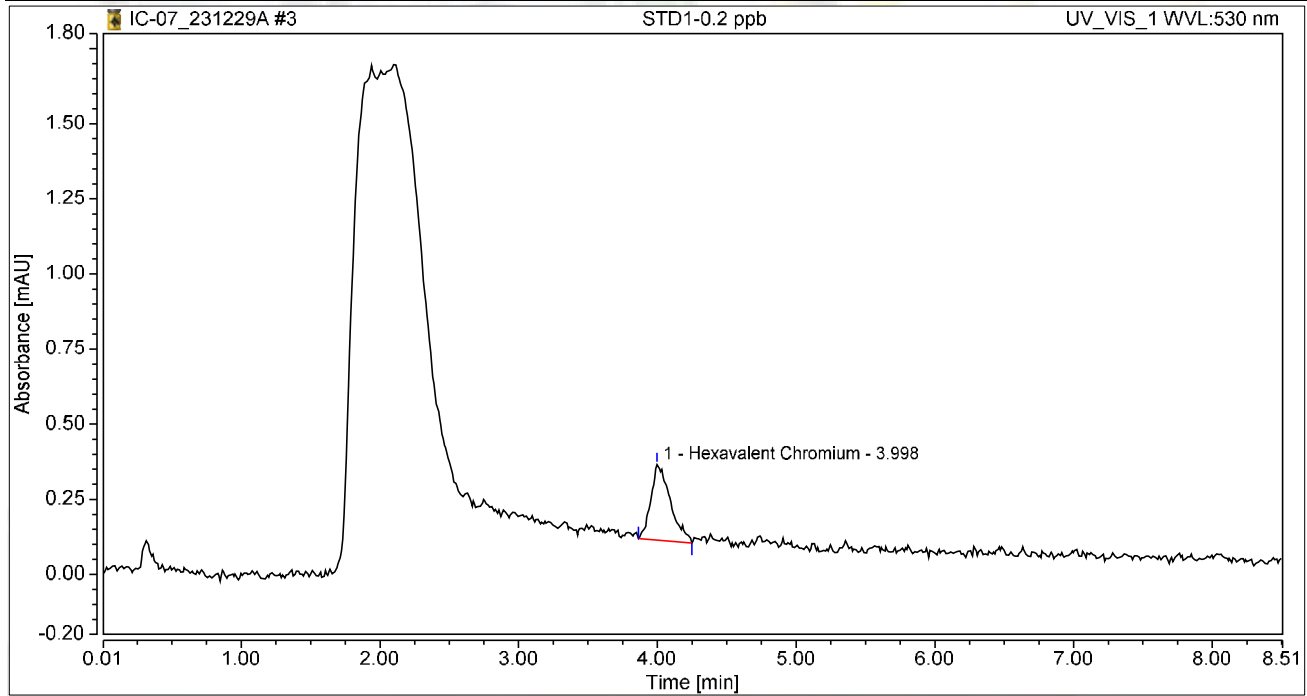
01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

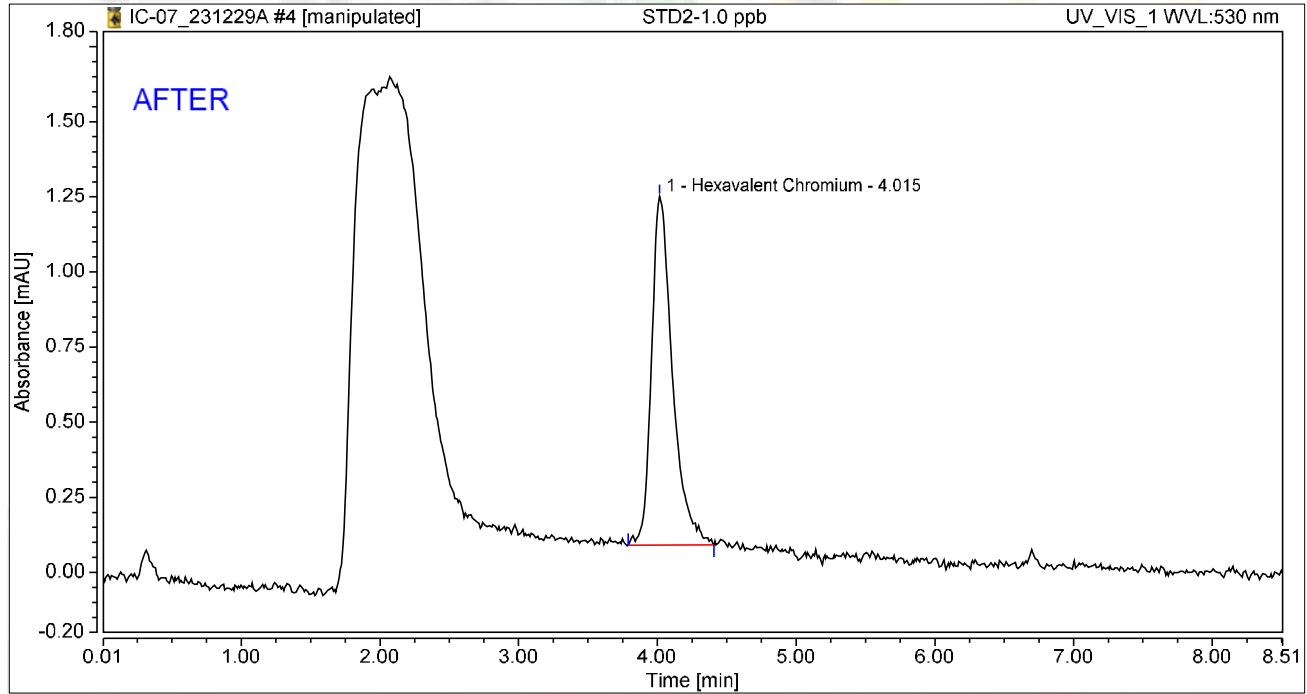
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.041	0.251	100.00	100.00	0.1978
Total:			0.041	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.204	1.161	100.00	100.00	0.9794
Total:			0.204	1.161	100.00	100.00	

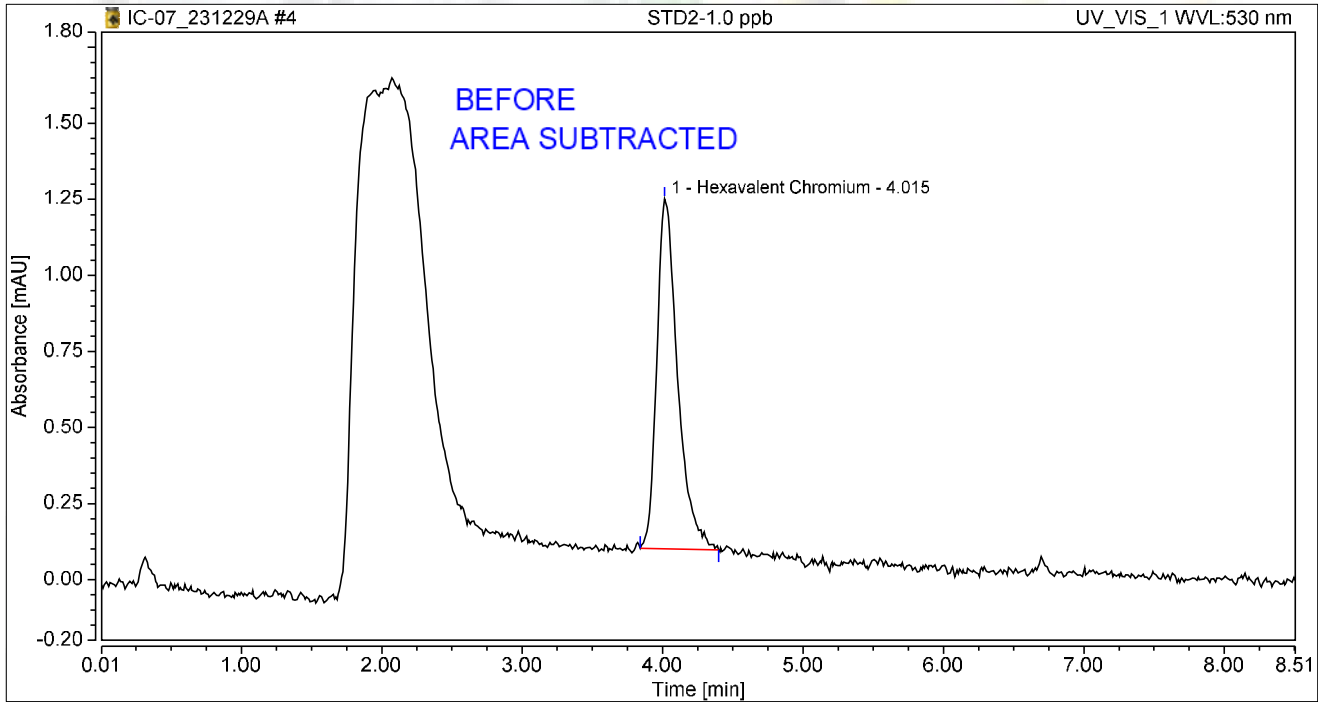
Reviewed by
 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

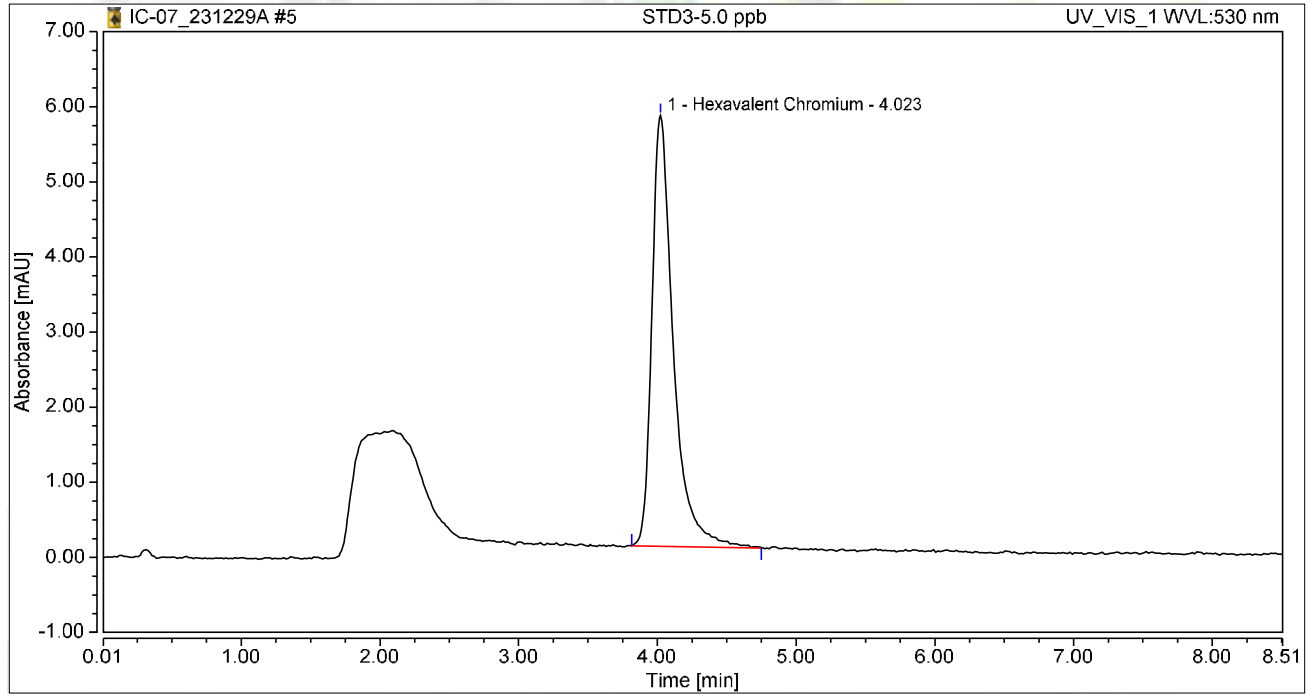
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.198	1.150	100.00	100.00	0.9499
Total:			0.198	1.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

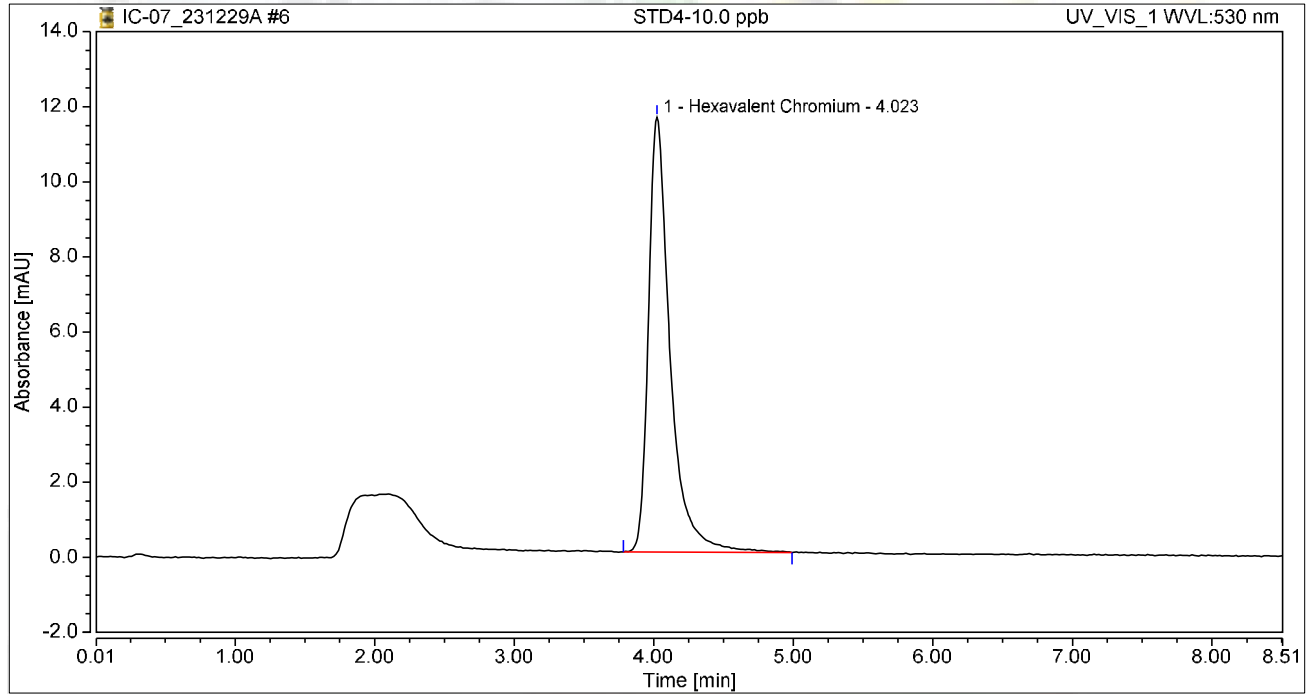
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.025	5.736	100.00	100.00	4.9279
Total:			1.025	5.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

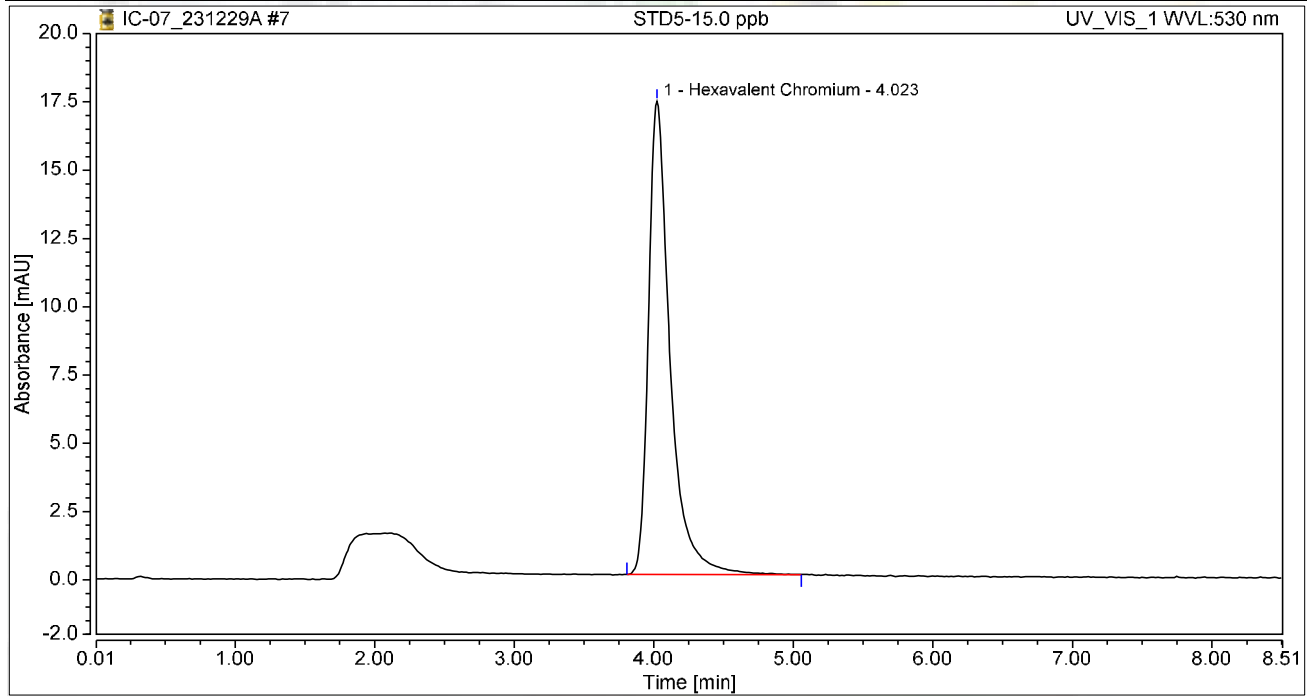
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.089	11.578	100.00	100.00	10.0413
Total:			2.089	11.578	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

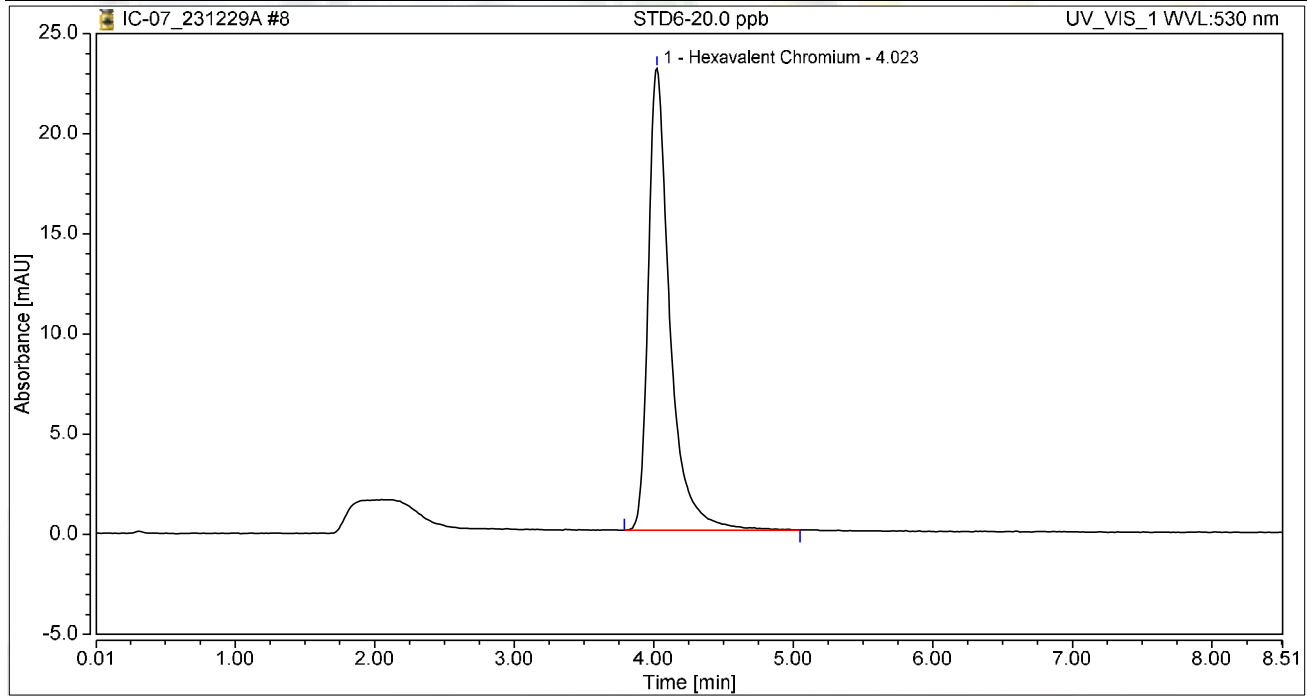
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	3.124	17.334	100.00	100.00	15.0139
Total:			3.124	17.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:07	Sample Weight:	1.0000

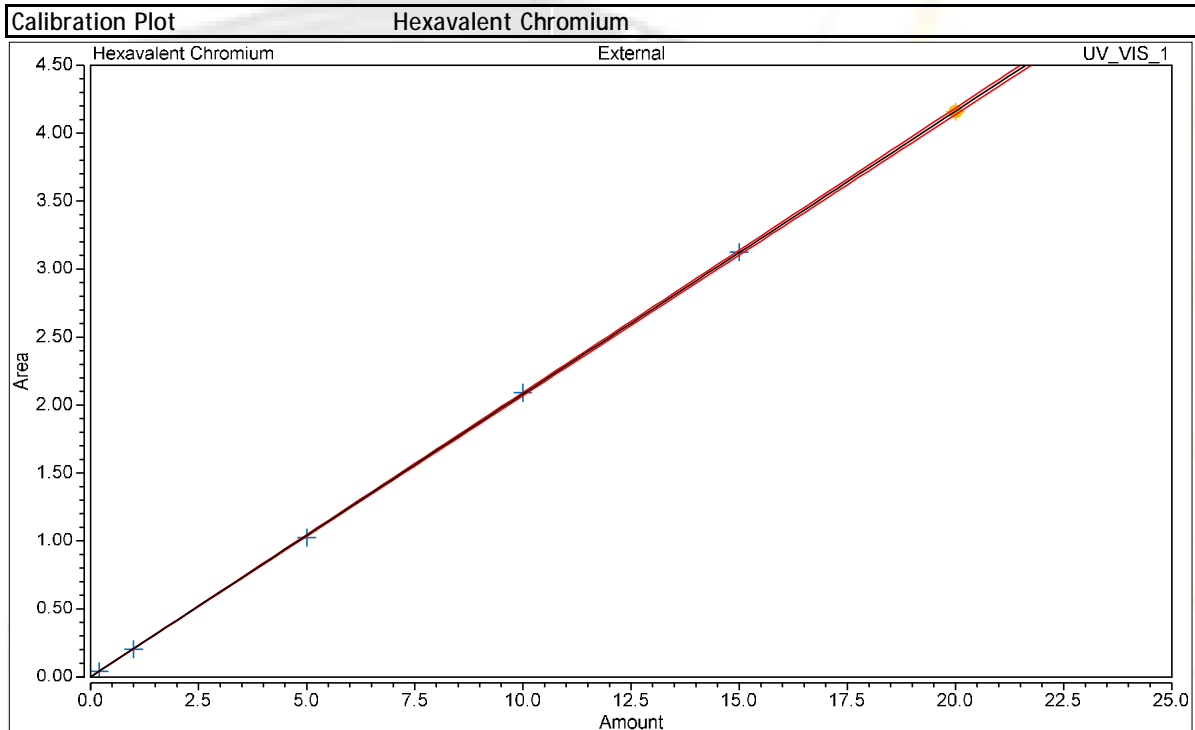
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	4.159	23.069	100.00	100.00	19.9880
Total:			4.159	23.069	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2081
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99998



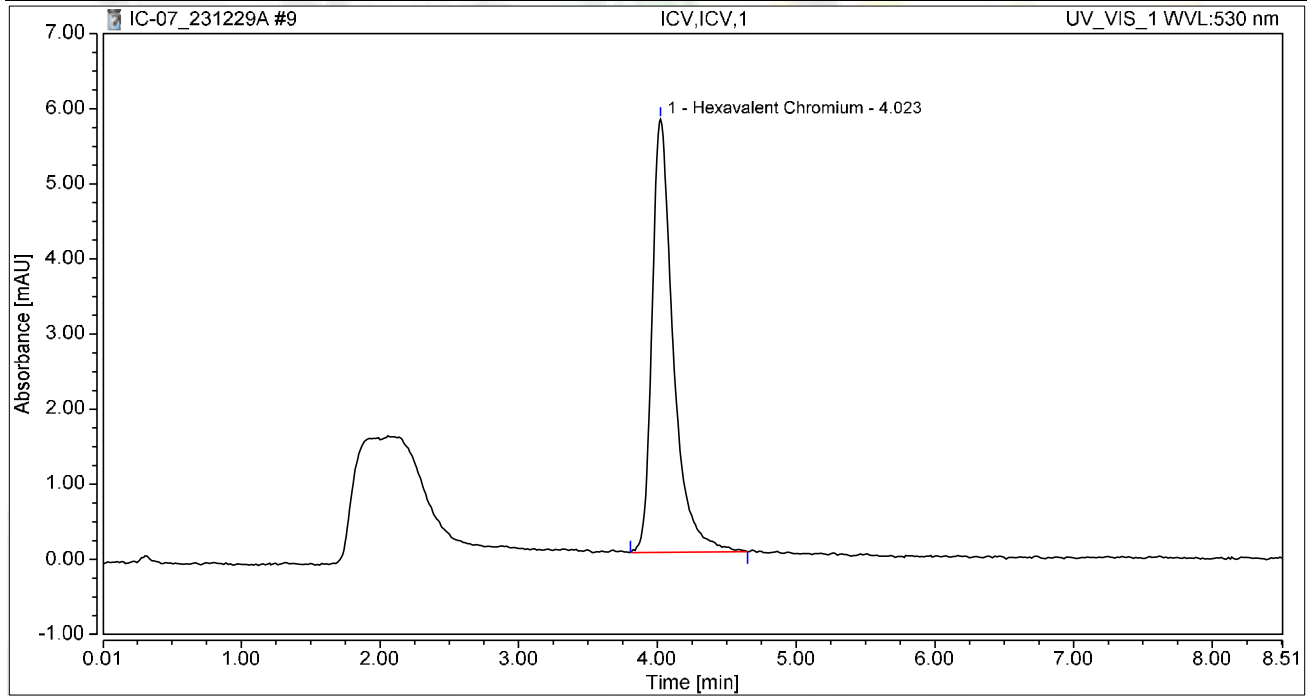
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0412	0.041	0.251
4	STD2-1.0 ppb	02	1.0000	0.2038	0.204	1.161
5	STD3-5.0 ppb	03	5.0000	1.0254	1.025	5.736
6	STD4-10.0 ppb	04	10.0000	2.0894	2.089	11.578
7	STD5-15.0 ppb	05	15.0000	3.1241	3.124	17.334
8	STD6-20.0 ppb	06	20.0000	4.1591	4.159	23.069

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

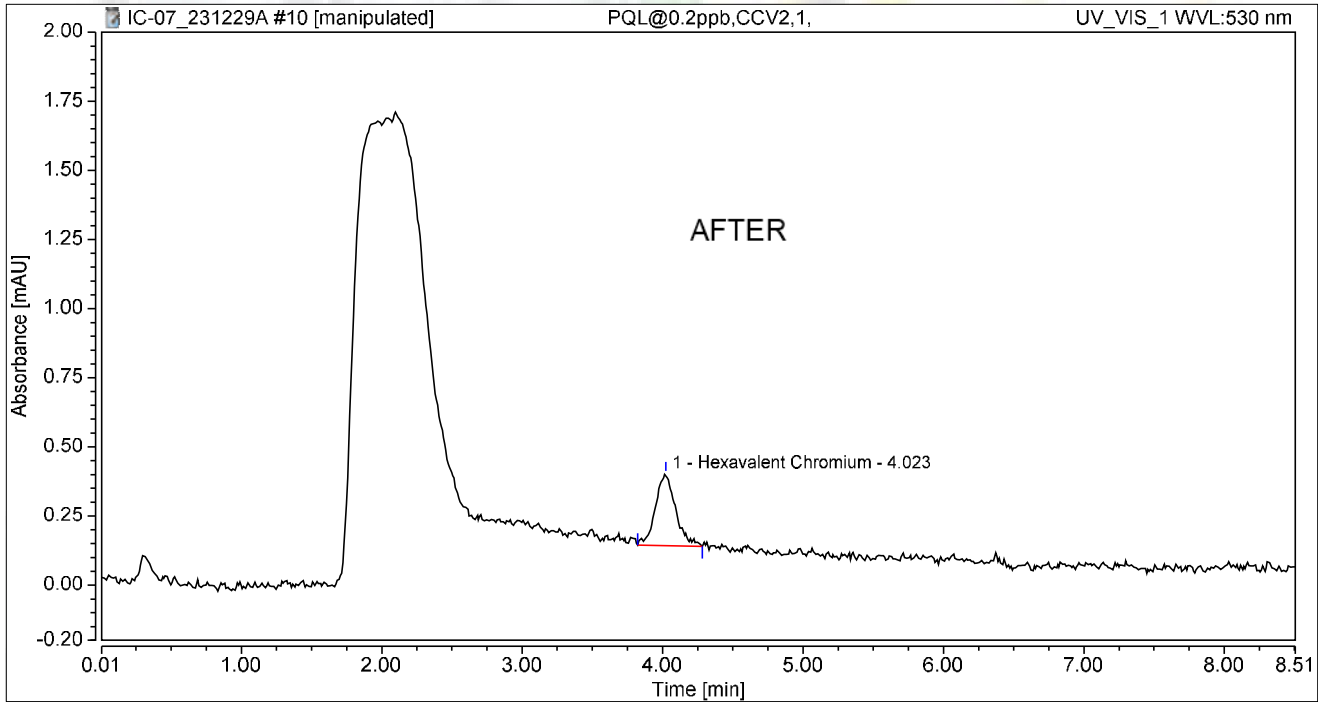
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.026	5.769	100.00	100.00	4.9315
Total:			1.026	5.769	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.043	0.259	100.00	100.00	0.2068
Total:			0.043	0.259	100.00	100.00	

Reviewed by

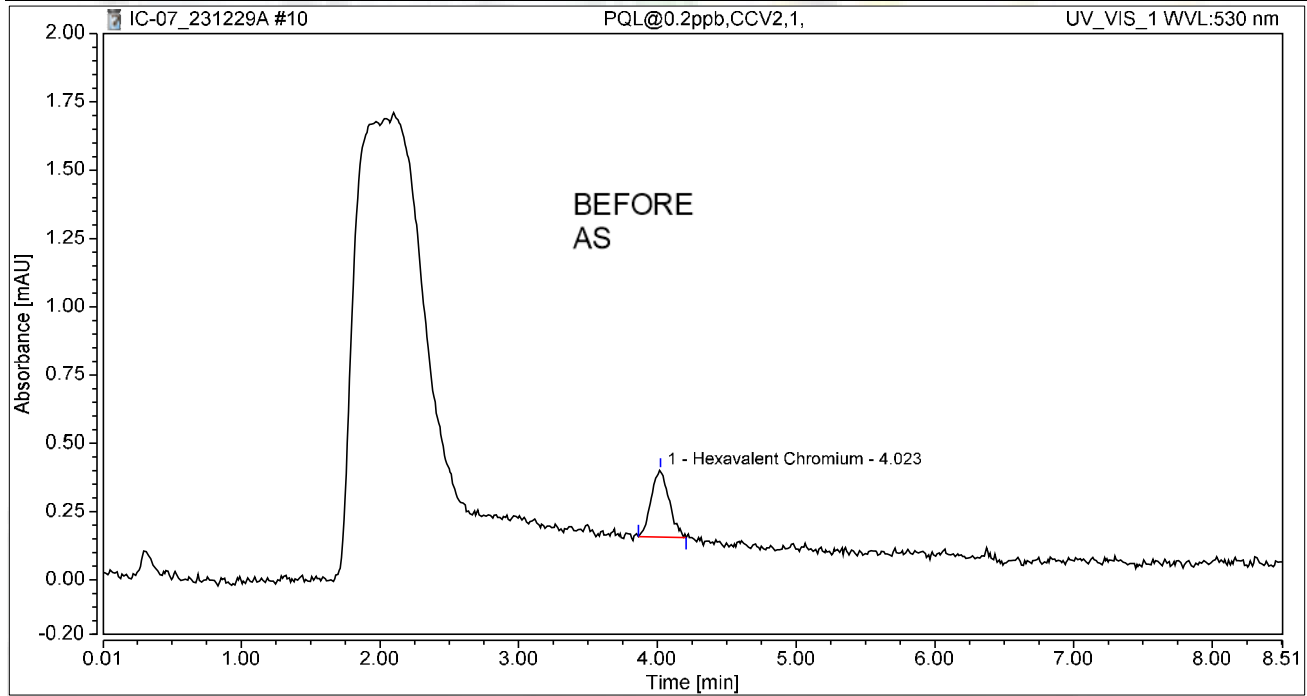
Nancy 01/08/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

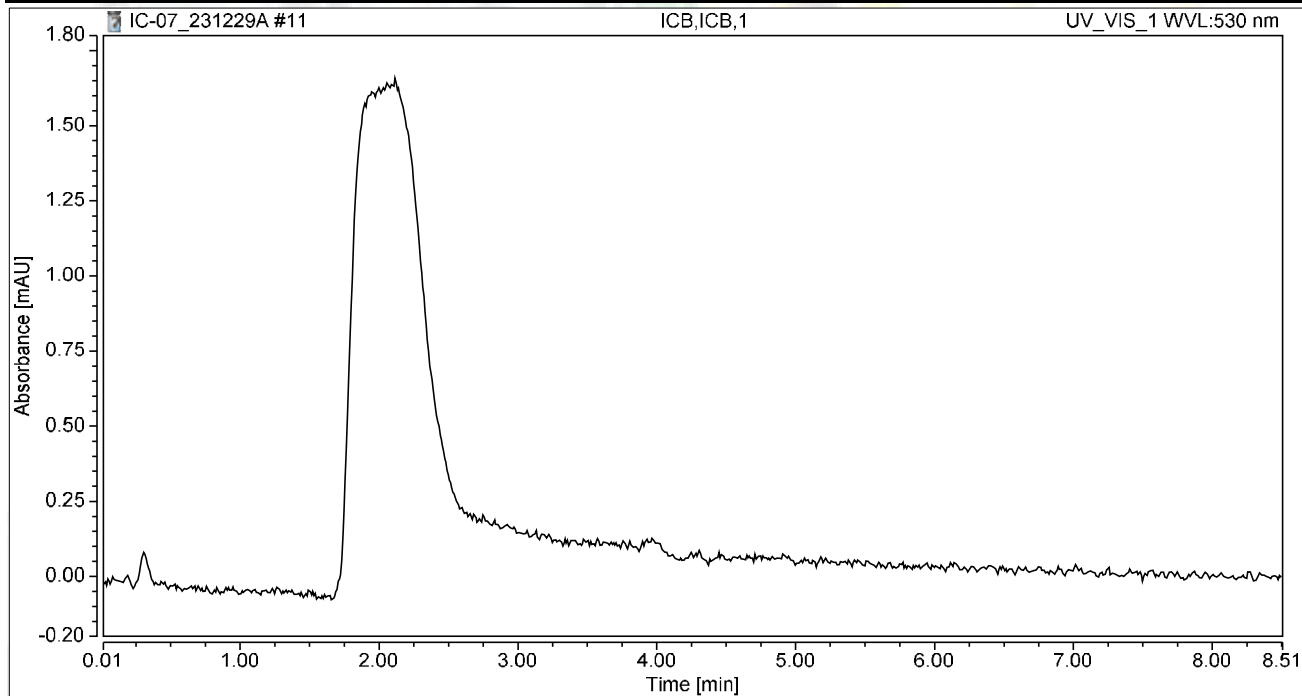
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.036	0.245	100.00	100.00	0.1746
Total:			0.036	0.245	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Dec/23 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	12/29/23 9:56 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	12/29/23 10:10 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:20 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:29 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:38 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:48 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 10:57 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	12/29/23 11:07 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	01/16/24 10:23 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	01/16/24 10:34 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	01/16/24 10:44 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	01/16/24 10:53 AM	Reported
13	MB-R180465	MBLK	1	Hexavalent Chromium	01/16/24 11:03 AM	Reported
14	LCS-R180465	LCS	1	Hexavalent Chromium	01/16/24 11:12 AM	Reported
15	N062315-001B	SAMP	1	Hexavalent Chromium	01/16/24 11:31 AM	Reported
16	N062315-002B	SAMP	1	Hexavalent Chromium	01/16/24 11:44 AM	Reported
17	N062315-003B	SAMP	1	Hexavalent Chromium	01/16/24 11:53 AM	Reported
18	N062315-004B	SAMP	1	Hexavalent Chromium	01/16/24 12:03 PM	Reported
19	N062315-001BREP	DUP	1	Hexavalent Chromium	01/16/24 12:12 PM	Reported
20	N062315-002BREP	DUP	1	Hexavalent Chromium	01/16/24 12:22 PM	Reported
21	N062315-003BREP	DUP	1	Hexavalent Chromium	01/16/24 12:31 PM	Reported
22	N062315-004BREP	DUP	1	Hexavalent Chromium	01/16/24 12:40 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	01/16/24 12:50 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	01/16/24 12:59 PM	Reported
25	MB-105998	MBLK	1	Hexavalent Chromium	01/16/24 1:09 PM	Reported
26	MB-106063	MBLK	1	Hexavalent Chromium	01/16/24 1:20 PM	Reported
27	N062315-001A	SAMP	1	Hexavalent Chromium	01/16/24 1:29 PM	Reported
28	N062315-001AREP	DUP	1	Hexavalent Chromium	01/16/24 1:39 PM	Reported
29	N062315-002A	SAMP	1	Hexavalent Chromium	01/16/24 1:48 PM	Reported
30	N062315-002AREP	DUP	1	Hexavalent Chromium	01/16/24 1:58 PM	Reported
31	N062315-003A	SAMP	1	Hexavalent Chromium	01/16/24 2:07 PM	Reported
32	N062315-003AREP	DUP	1	Hexavalent Chromium	01/16/24 2:17 PM	Reported
33	N062315-004A	SAMP	1	Hexavalent Chromium	01/16/24 2:26 PM	Reported
34	N062315-004AREP	DUP	1	Hexavalent Chromium	01/16/24 2:35 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	01/16/24 2:45 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	01/16/24 2:54 PM	Reported
37	N062348-003A	SAMP	500	Hexavalent Chromium	01/16/24 3:04 PM	Reported
38	N062348-003AMS	MS	500	Hexavalent Chromium	01/16/24 3:13 PM	Reported
39	N062348-003AMSD	MSD	500	Hexavalent Chromium	01/16/24 3:23 PM	Reported
40	N062348-002A	SAMP	500	Hexavalent Chromium	01/16/24 3:32 PM	Reported
41	N062348-002ADUP	DUP	500	Hexavalent Chromium	01/16/24 3:42 PM	Reported
42	N062348-002AMS	MS	500	Hexavalent Chromium	01/16/24 3:51 PM	Reported

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062348-001A	SAMP	100	Hexavalent Chromium	01/16/24 4:01 PM	Reported
44	N062348-001AMS	MS	100	Hexavalent Chromium	01/16/24 4:13 PM	Reported
45	N062348-006A	SAMP	5000	Hexavalent Chromium	01/16/24 4:24 PM	Reported
46	N062348-006AMS	MS	5000	Hexavalent Chromium	01/16/24 4:33 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	01/16/24 4:43 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	01/16/24 4:52 PM	Reported
49	N062348-007A	SAMP	400	Hexavalent Chromium	01/16/24 5:01 PM	Reported
50	N062348-007AMS	MS	400	Hexavalent Chromium	01/16/24 5:11 PM	Reported
51	N062348-008A	SAMP	400	Hexavalent Chromium	01/16/24 5:20 PM	Reported
52	N062348-008AMS	MS	400	Hexavalent Chromium	01/16/24 5:30 PM	Reported
53	N062348-004A	SAMP	1	Hexavalent Chromium	01/16/24 5:39 PM	Reported
54	N062348-004AMS	MS	1	Hexavalent Chromium	01/16/24 5:49 PM	Reported
55	N062348-009A	SAMP	1	Hexavalent Chromium	01/16/24 5:58 PM	Reported
56	N062348-009AMS	MS	1	Hexavalent Chromium	01/16/24 6:08 PM	Reported
57	N062348-010A	SAMP	1	Hexavalent Chromium	01/16/24 6:17 PM	Reported
58	N062348-010AMS	MS	1	Hexavalent Chromium	01/16/24 6:27 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	01/16/24 6:36 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	01/16/24 6:46 PM	Reported
61	N062348-005A	SAMP	1	Hexavalent Chromium	01/16/24 6:55 PM	Reported
62	N062348-005AMS	MS	1	Hexavalent Chromium	01/16/24 7:04 PM	Reported
63	N062348-011A	SAMP	1	Hexavalent Chromium	01/16/24 7:14 PM	Reported
64	N062348-011AMS	MS	1	Hexavalent Chromium	01/16/24 7:23 PM	Reported
65	MB-R180466	MBLK	1	Hexavalent Chromium	01/16/24 7:33 PM	Reported
66	LCS-R180466	LCS	1	Hexavalent Chromium	01/16/24 7:42 PM	Reported
67	N062352-001A	SAMP	5	Hexavalent Chromium	01/16/24 7:52 PM	Reported
68	N062352-001ADUP	DUP	5	Hexavalent Chromium	01/16/24 8:01 PM	Reported
69	N062352-001AMS	MS	5	Hexavalent Chromium	01/16/24 8:11 PM	Reported
70	N062352-001AMSD	MSD	5	Hexavalent Chromium	01/16/24 8:20 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	01/16/24 8:30 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	01/16/24 8:39 PM	Reported
73	N062352-002A	SAMP	5	Hexavalent Chromium	01/16/24 8:49 PM	Reported
74	N062352-002AMS	MS	5	Hexavalent Chromium	01/16/24 8:58 PM	Reported
75	N062351-002A	SAMP	1	Hexavalent Chromium	01/16/24 9:07 PM	Reported
76	N062351-011A	SAMP	1	Hexavalent Chromium	01/16/24 9:17 PM	Reported
77	N062373-003A	SAMP	1	Hexavalent Chromium	01/16/24 9:26 PM	Reported
78	N062373-004A	SAMP	1	Hexavalent Chromium	01/16/24 9:36 PM	Reported
79	N062373-005A	SAMP	1	Hexavalent Chromium	01/16/24 9:45 PM	Reported
80	N062373-006A	SAMP	1	Hexavalent Chromium	01/16/24 9:55 PM	Reported
81	N062373-007A	SAMP	1	Hexavalent Chromium	01/16/24 10:04 PM	Reported
82	N062373-008A	SAMP	1	Hexavalent Chromium	01/16/24 10:14 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	01/16/24 10:23 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	01/16/24 10:33 PM	Reported

INJECTION LOG: 240116A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062373-009A	SAMP	1	Hexavalent Chromium	01/16/24 10:42 PM	Reported
86	N062373-010A	SAMP	1	Hexavalent Chromium	01/16/24 10:51 PM	Reported
87	N062373-011A	SAMP	500	Hexavalent Chromium	01/16/24 11:01 PM	Reported
88	N062373-012A	SAMP	500	Hexavalent Chromium	01/16/24 11:10 PM	Reported
89	N062373-013A	SAMP	1	Hexavalent Chromium	01/16/24 11:20 PM	Reported
90	N062373-014A	SAMP	1	Hexavalent Chromium	01/16/24 11:29 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	01/16/24 11:39 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	01/16/24 11:48 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240116A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	17/Jan/24 00:19:03
No. of Injections:	95	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		12/29/2023 09:56	Finished	BLANK
2	iBLANK	2	1000	Unknown		12/29/2023 10:10	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	12/29/2023 10:20	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	12/29/2023 10:29	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	12/29/2023 10:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	12/29/2023 10:48	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	12/29/2023 10:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	12/29/2023 11:07	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		01/16/2024 10:23	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		01/16/2024 10:34	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		01/16/2024 10:44	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		01/16/2024 10:53	Finished	CCB R231227C
13	MB-H2O,MBLK,1,	5	1000	Unknown		01/16/2024 11:03	Finished	MB R231227C
14	LCS-H2O,LCS,1,	6	1000	Unknown		01/16/2024 11:12	Finished	LCS @5ppb, IWST-231228B
15	N062315-001B,SAMP	1	1000	Unknown		01/16/2024 11:31	Finished	SAMP,10 mL
16	N062315-002B,SAMP	2	1000	Unknown		01/16/2024 11:44	Finished	SAMP,10 mL
17	N062315-003B,SAMP	3	1000	Unknown		01/16/2024 11:53	Finished	SAMP,10 mL
18	N062315-004B,SAMP	4	1000	Unknown		01/16/2024 12:03	Finished	SAMP,10 mL
19	N062315-001BREP,D	5	1000	Unknown		01/16/2024 12:12	Finished	REP,10 mL
20	N062315-002BREP,D	6	1000	Unknown		01/16/2024 12:22	Finished	REP,10 mL
21	N062315-003BREP,D	7	1000	Unknown		01/16/2024 12:31	Finished	REP,10 mL
22	N062315-004BREP,D	8	1000	Unknown		01/16/2024 12:40	Finished	REP,10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		01/16/2024 12:50	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		01/16/2024 12:59	Finished	CCB R231030A
25	MB-105998,MBLK,1,	11	1000	Unknown		01/16/2024 13:09	Finished	MB STLC
26	MB-106063,MBLK,1,	12	1000	Unknown		01/16/2024 13:20	Finished	MB TCLP
27	N062315-001A,SAMP	13	1000	Unknown		01/16/2024 13:29	Finished	SAMP,10 mL
28	N062315-001AREP,D	14	1000	Unknown		01/16/2024 13:39	Finished	REP,10 mL
29	N062315-002A,SAMP	15	1000	Unknown		01/16/2024 13:48	Finished	SAMP,10 mL
30	N062315-002AREP,D	16	1000	Unknown		01/16/2024 13:58	Finished	REP,10 mL
31	N062315-003A,SAMP	17	1000	Unknown		01/16/2024 14:07	Finished	SAMP,10 mL
32	N062315-003AREP,D	18	1000	Unknown		01/16/2024 14:17	Finished	REP,10 mL
33	N062315-004A,SAMP	19	1000	Unknown		01/16/2024 14:26	Finished	SAMP,10 mL
34	N062315-004AREP,D	20	1000	Unknown		01/16/2024 14:35	Finished	REP,10 mL
35	CCV-3,CCV,1,	21	1000	Unknown		01/16/2024 14:45	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		01/16/2024 14:54	Finished	CCB R231227C
37	N062348-003A,SAMP	23	1000	Unknown		01/16/2024 15:04	Finished	SAMP,0.02>10 mL
38	N062348-003AMS,MS	24	1000	Unknown		01/16/2024 15:13	Finished	MS (5ppb), IWST-231228B,0.0
39	N062348-003AMSD,N	25	1000	Unknown		01/16/2024 15:23	Finished	MSD (5ppb), IWST-231228B,0.0
40	N062348-002A,SAMP	26	1000	Unknown		01/16/2024 15:32	Finished	SAMP,0.02>10 mL
41	N062348-002ADUP,D	27	1000	Unknown		01/16/2024 15:42	Finished	DUP,0.02>10 mL
42	N062348-002AMS,MS	28	1000	Unknown		01/16/2024 15:51	Finished	MS (5ppb), IWST-231228B,0.0
43	N062348-001A,SAMP	29	1000	Unknown		01/16/2024 16:01	Finished	SAMP,0.1>10 mL
44	N062348-001AMS,MS	1	1000	Unknown		01/16/2024 16:13	Finished	MS (5ppb), IWST-231228B,0.1
45	N062348-006A,SAMP	2	1000	Unknown		01/16/2024 16:24	Finished	SAMP,0.002>10 mL
46	N062348-006AMS,MS	3	1000	Unknown		01/16/2024 16:33	Finished	MS (5ppb), IWST-231228B,0.0
47	CCV-4,CCV1,1,	4	1000	Unknown		01/16/2024 16:43	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	5	1000	Unknown		01/16/2024 16:52	Finished	CCB R231030A
49	N062348-007A,SAMP	6	1000	Unknown		01/16/2024 17:01	Finished	SAMP,0.025>10 mL
50	N062348-007AMS,MS	7	1000	Unknown		01/16/2024 17:11	Finished	MS (1ppb), IWST-231228B,0.0
51	N062348-008A,SAMP	8	1000	Unknown		01/16/2024 17:20	Finished	SAMP,0.025>10 mL
52	N062348-008AMS,MS	9	1000	Unknown		01/16/2024 17:30	Finished	MS (1ppb), IWST-231228B,0.0
53	N062348-004A,SAMP	10	1000	Unknown		01/16/2024 17:39	Finished	SAMP,10 mL
54	N062348-004AMS,MS	11	1000	Unknown		01/16/2024 17:49	Finished	MS (1ppb), IWST-231228B,10r
55	N062348-009A,SAMP	12	1000	Unknown		01/16/2024 17:58	Finished	SAMP,10 mL
56	N062348-009AMS,MS	13	1000	Unknown		01/16/2024 18:08	Finished	MS (1ppb), IWST-231228B,10r
57	N062348-010A,SAMP	14	1000	Unknown		01/16/2024 18:17	Finished	SAMP,10 mL
58	N062348-010AMS,MS	15	1000	Unknown		01/16/2024 18:27	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	16	1000	Unknown		01/16/2024 18:36	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	17	1000	Unknown		01/16/2024 18:46	Finished	CCB R231227C

Reviewed by:

My first report/Overview

Chromeleon (c) Dionex
Version 7.1.1.1127

JRB 1/17/2024

IC-07 RBA 1/17/2024 10:38:36 AM

61	N062348-005A,SAMF	18	1000	Unknown		01/16/2024 18:55	Finished	SAMP,10 mL
62	N062348-005AMS,MS	19	1000	Unknown		01/16/2024 19:04	Finished	MS (1ppb), IWST-231228B,10r
63	N062348-011A,SAMF	20	1000	Unknown		01/16/2024 19:14	Finished	SAMP,10 mL
64	N062348-011AMS,MS	21	1000	Unknown		01/16/2024 19:23	Finished	MS (1ppb), IWST-231228B,10r
65	MB-2,MBLK,1,	22	1000	Unknown		01/16/2024 19:33	Finished	MB R231227C
66	LCS-2,LCS,1,	23	1000	Unknown		01/16/2024 19:42	Finished	LCS @5ppb, IWST-231228B
67	N062352-001A,SAMF	24	1000	Unknown		01/16/2024 19:52	Finished	SAMP,2>10 mL
68	N062352-001ADUP,D	25	1000	Unknown		01/16/2024 20:01	Finished	DUP,2>10 mL
69	N062352-001AMS,MS	26	1000	Unknown		01/16/2024 20:11	Finished	MS (5ppb), IWST-231228B,2>
70	N062352-001AMSD,N	27	1000	Unknown		01/16/2024 20:20	Finished	MSD (5ppb), IWST-231228B,2
71	CCV-6,CCV1,1,	28	1000	Unknown		01/16/2024 20:30	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	29	1000	Unknown		01/16/2024 20:39	Finished	CCB R231227C
73	N062352-002A,SAMF	30	1000	Unknown		01/16/2024 20:49	Finished	SAMP,2>10 mL
74	N062352-002AMS,MS	31	1000	Unknown		01/16/2024 20:58	Finished	MS (5ppb), IWST-231228B,2>
75	N062351-002A,SAMF	32	1000	Unknown		01/16/2024 21:07	Finished	SAMP,10 mL
76	N062351-011A,SAMF	33	1000	Unknown		01/16/2024 21:17	Finished	SAMP,10 mL
77	N062373-003A,SAMF	34	1000	Unknown		01/16/2024 21:26	Finished	SAMP,10 mL
78	N062373-004A,SAMF	35	1000	Unknown		01/16/2024 21:36	Finished	SAMP,10 mL
79	N062373-005A,SAMF	36	1000	Unknown		01/16/2024 21:45	Finished	SAMP,10 mL
80	N062373-006A,SAMF	37	1000	Unknown		01/16/2024 21:55	Finished	SAMP,10 mL
81	N062373-007A,SAMF	38	1000	Unknown		01/16/2024 22:04	Finished	SAMP,10 mL
82	N062373-008A,SAMF	39	1000	Unknown		01/16/2024 22:14	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	40	1000	Unknown		01/16/2024 22:23	Finished	CCV @5ppb, IWST-231228A
84	CCB-7,CCB,1,	41	1000	Unknown		01/16/2024 22:33	Finished	CCB R231227C
85	N062373-009A,SAMF	42	1000	Unknown		01/16/2024 22:42	Finished	SAMP,10 mL
86	N062373-010A,SAMF	43	1000	Unknown		01/16/2024 22:51	Finished	SAMP,10 mL
87	N062373-011A,SAMF	44	1000	Unknown		01/16/2024 23:01	Finished	SAMP,0.02>10 mL
88	N062373-012A,SAMF	45	1000	Unknown		01/16/2024 23:10	Finished	SAMP,0.02>10 mL
89	N062373-013A,SAMF	46	1000	Unknown		01/16/2024 23:20	Finished	SAMP,10 mL
90	N062373-014A,SAMF	47	1000	Unknown		01/16/2024 23:29	Finished	SAMP,10 mL
91	CCV-8,CCV1,1,	48	1000	Unknown		01/16/2024 23:39	Finished	CCV @10ppb, IWST-231228A
92	CCB-8,CCB,1,	49	1000	Unknown		01/16/2024 23:48	Finished	CCB R231227C
93	SHUTDOWN	50	1000	Unknown		01/16/2024 23:58	Finished	
94	Eluent: R240114A	51	1000	Unknown		n.a.	Finished	
95	PCR: R240114B	CurrentVial	1000	Unknown		n.a.	Finished	

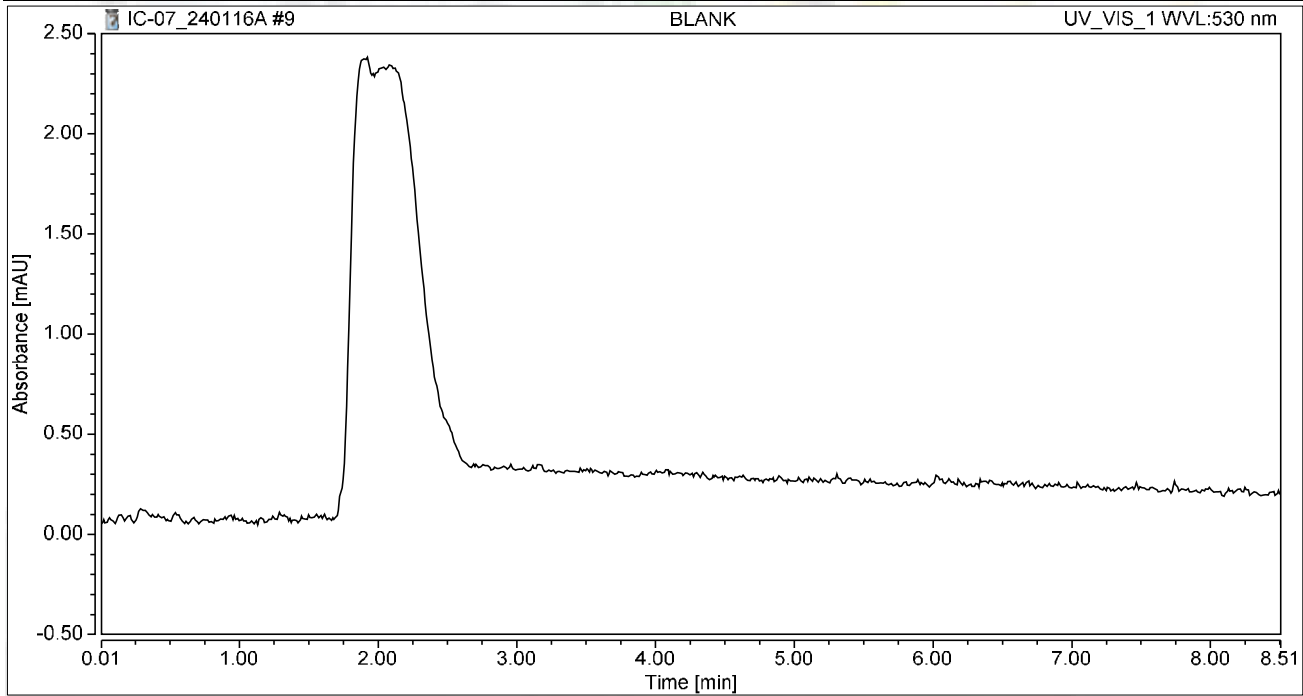


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 10:23	Sample Weight:	1.0000

Chromatogram



Integration Results

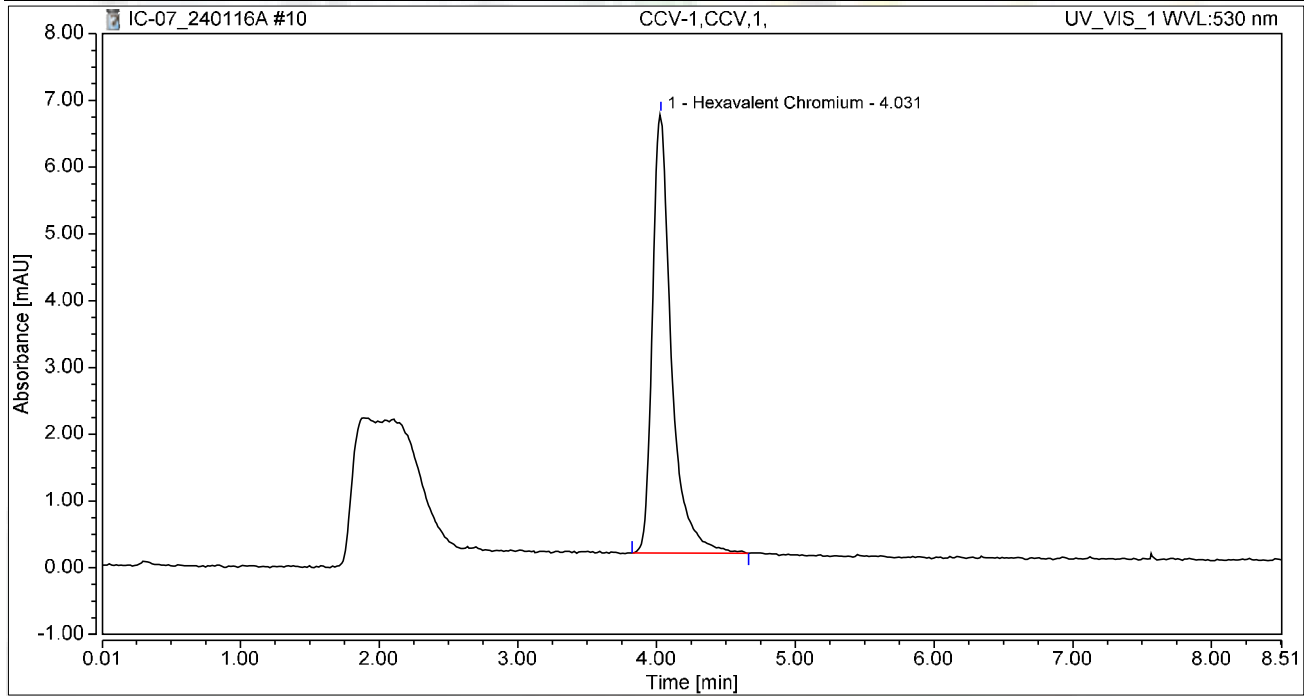
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 10:34	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.041	6.580	100.00	100.00	5.0044
Total:			1.041	6.580	100.00	100.00	

Reviewed by:

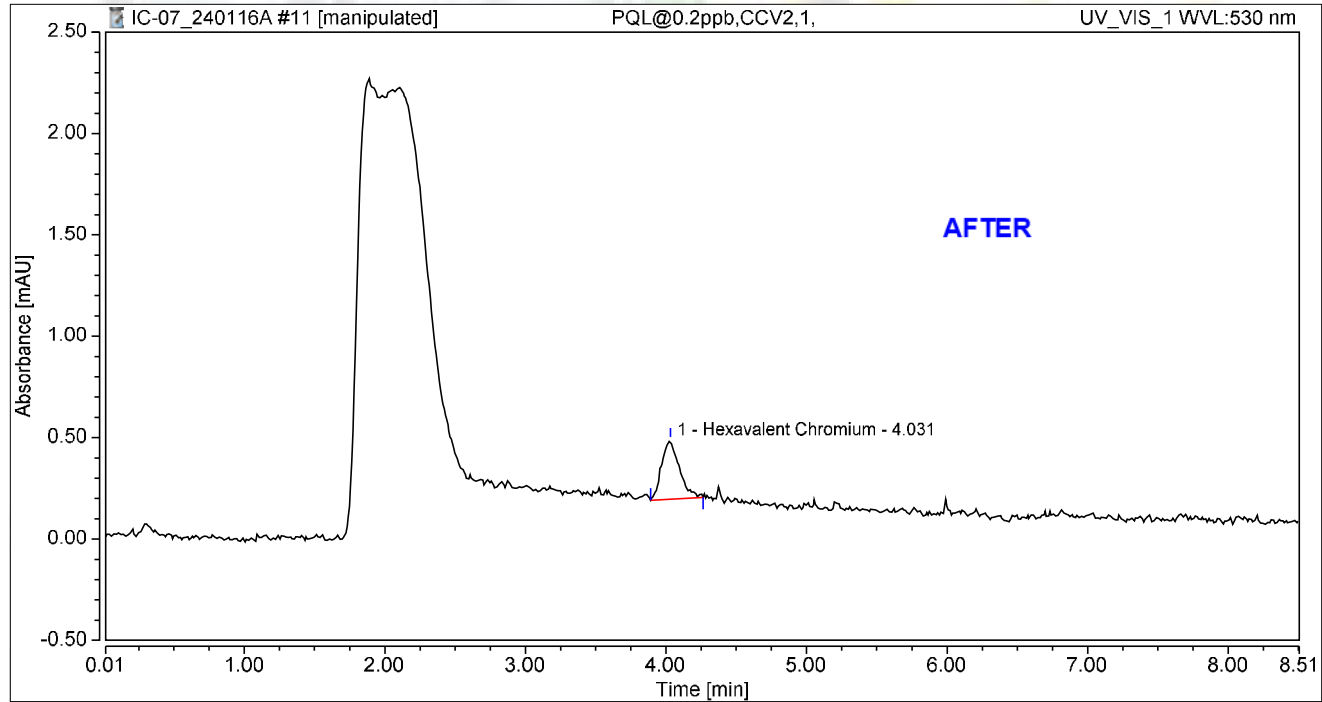
jrb

1/17/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	16/Jan/24 10:44	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.043	0.292	100.00	100.00	0.2053
Total:			0.043	0.292	100.00	100.00	

Reviewed by:

jrb

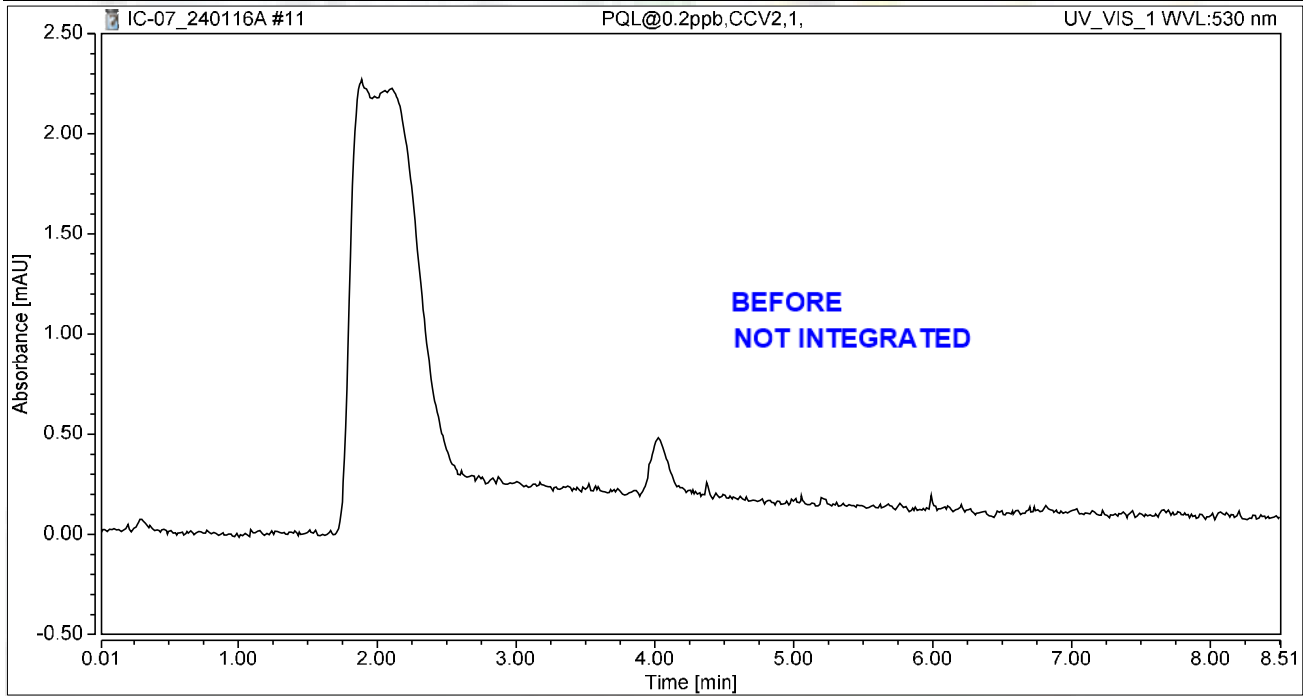
1/17/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 10:44	Sample Weight:	1.0000

Chromatogram



Integration Results

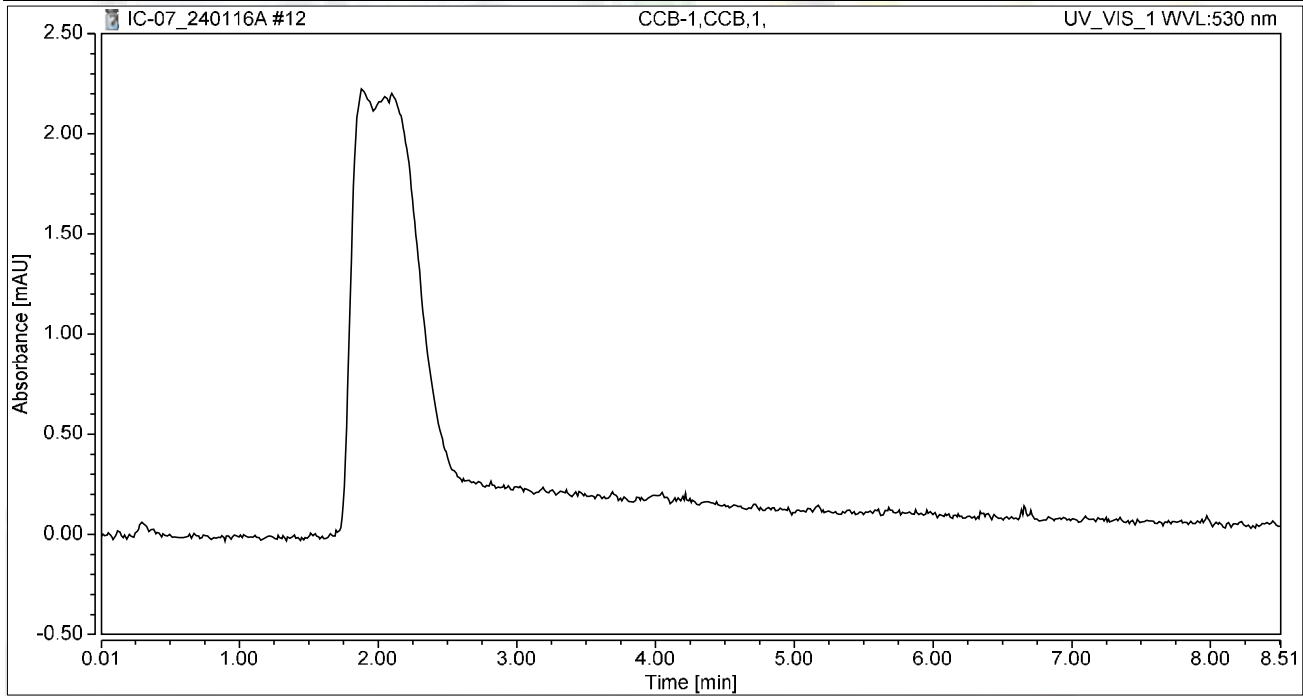
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 10:53	Sample Weight:	1.0000

Chromatogram



Integration Results

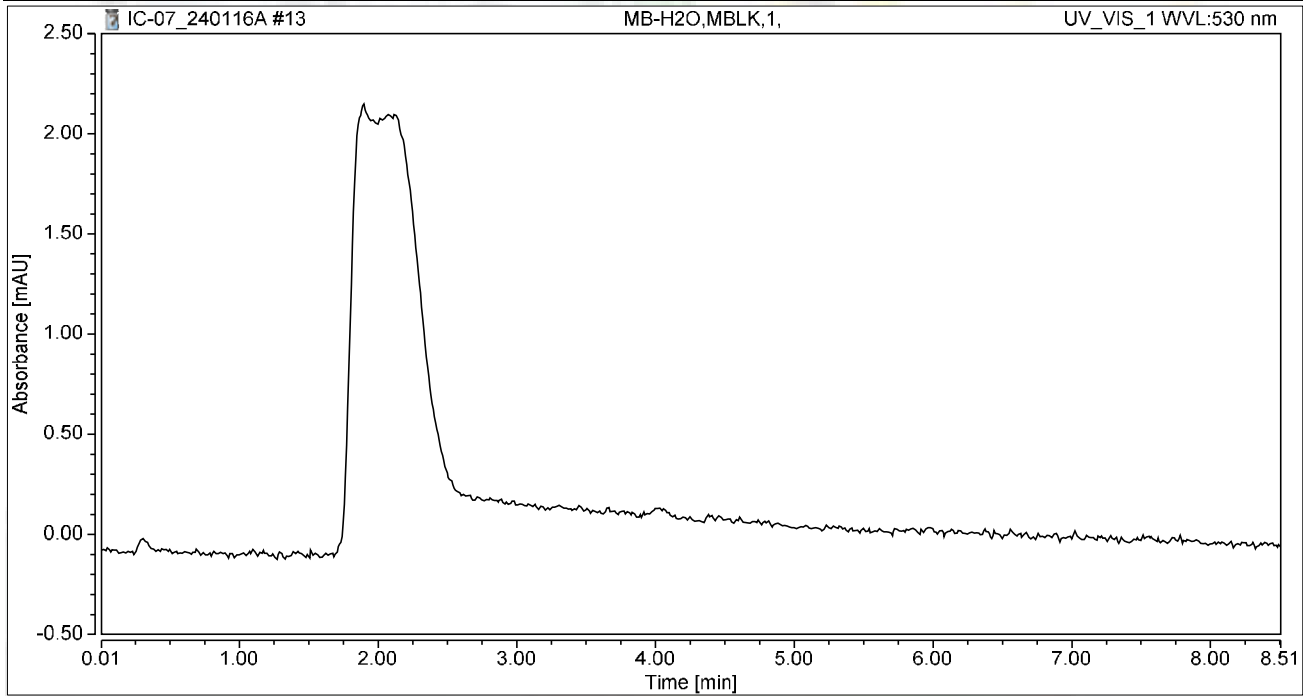
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 11:03	Sample Weight:	1.0000

Chromatogram



Integration Results

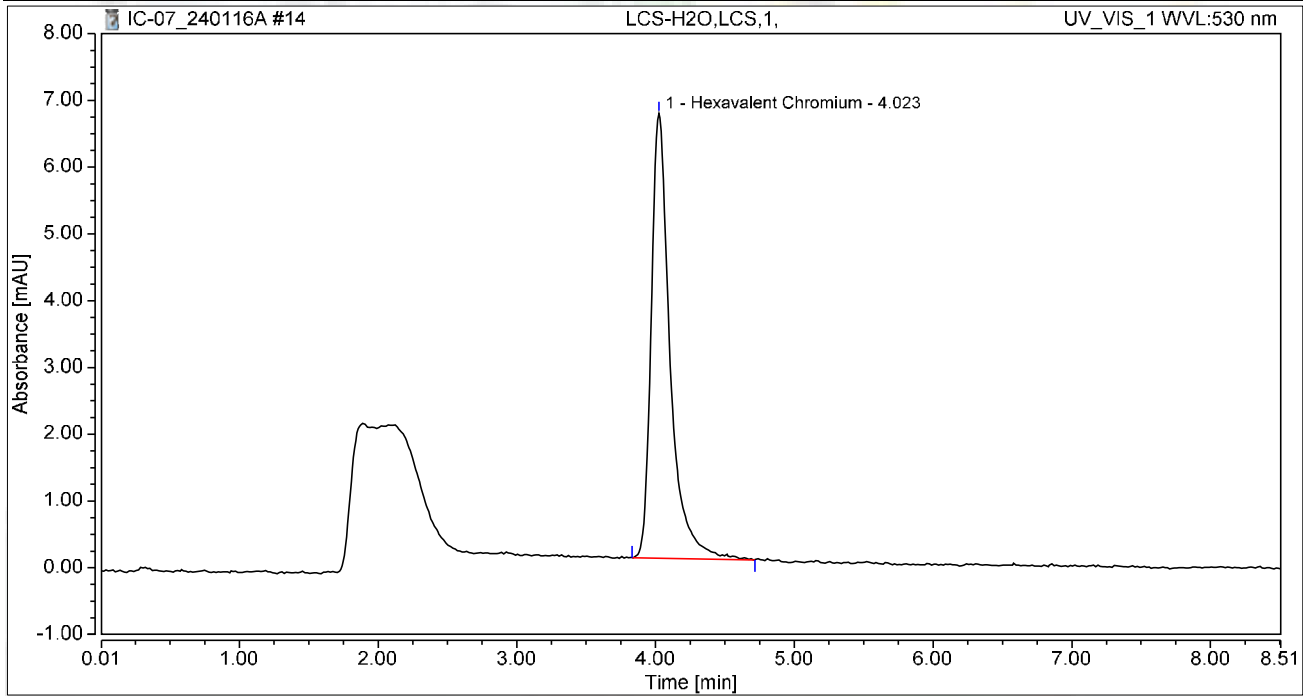
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 11:12	Sample Weight:	1.0000

Chromatogram



Integration Results

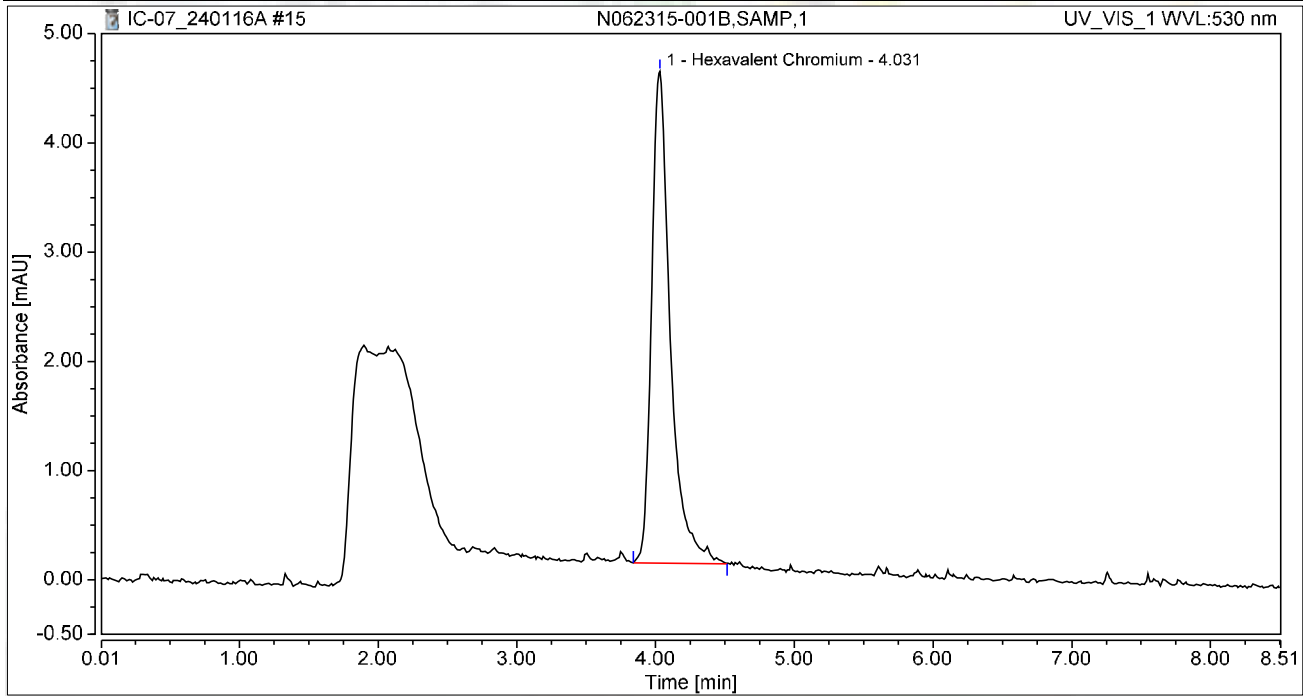
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.050	6.660	100.00	100.00	5.0467
Total:			1.050	6.660	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-001B,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 11:31	Sample Weight:	1.0000

Chromatogram



Integration Results

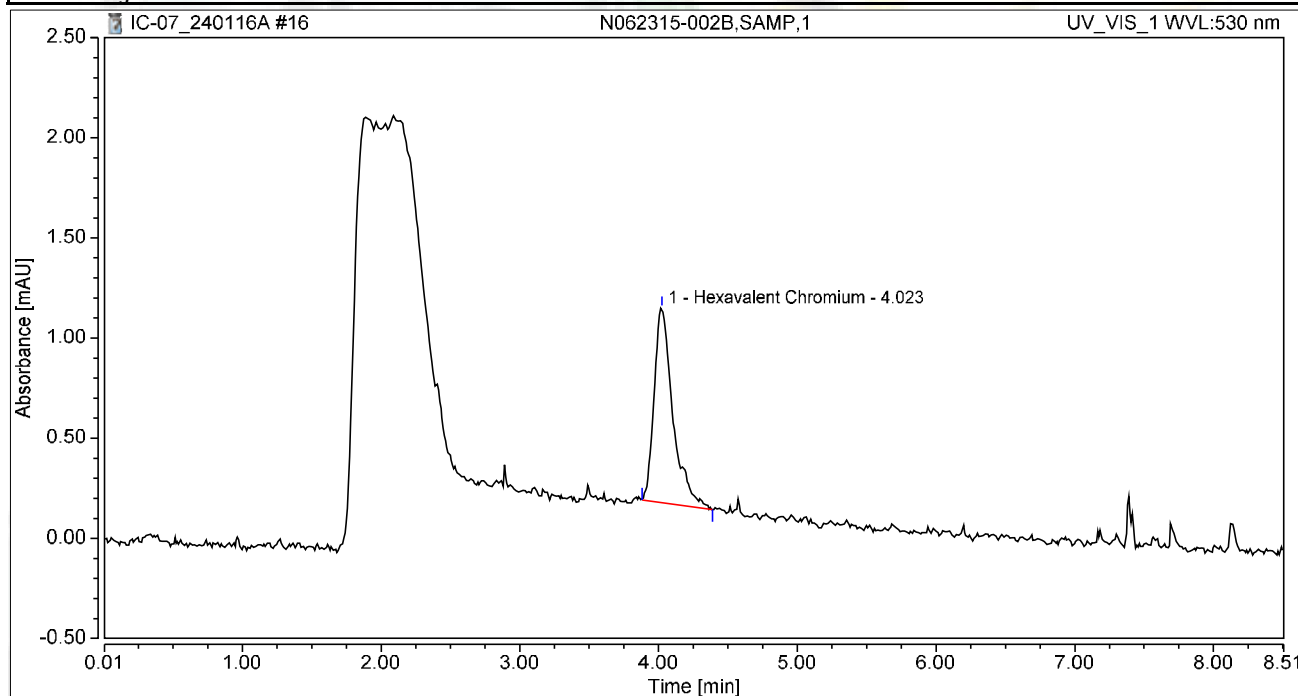
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.706	4.501	100.00	100.00	3.3942
Total:			0.706	4.501	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-002B,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 11:44	Sample Weight:	1.0000

Chromatogram



Integration Results

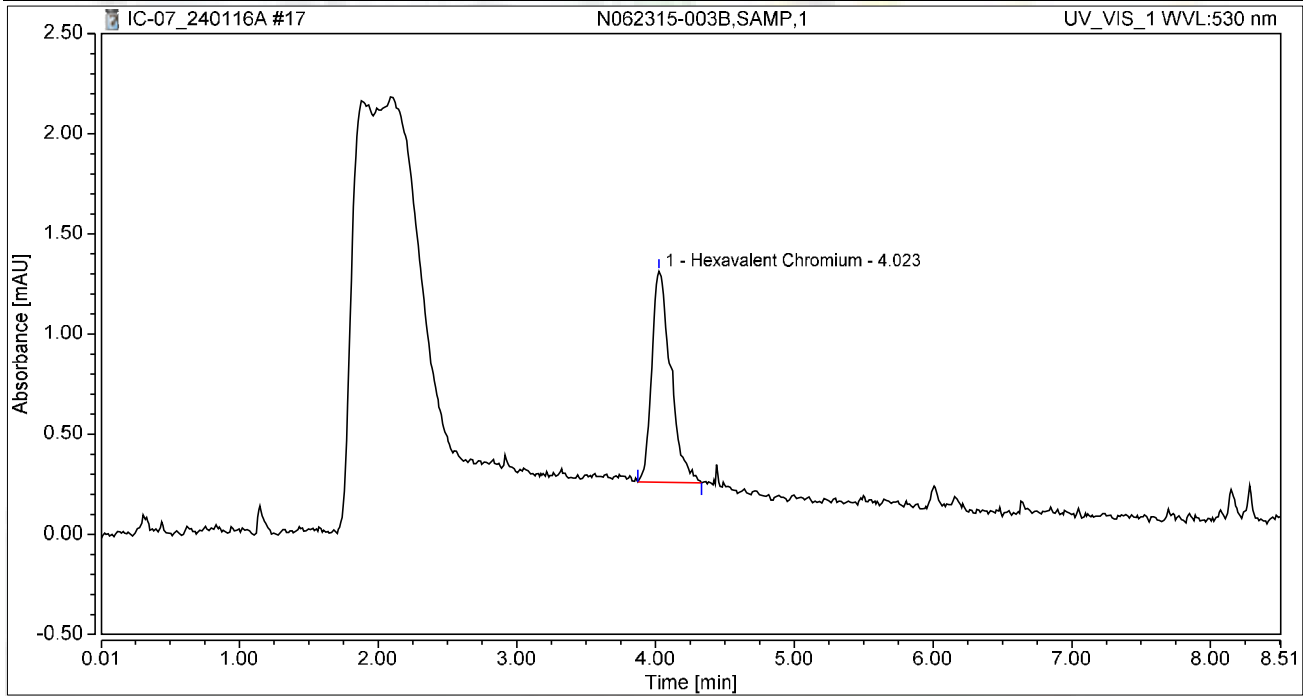
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.152	0.970	100.00	100.00	0.7306
Total:			0.152	0.970	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-003B,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 11:53	Sample Weight:	1.0000

Chromatogram



Integration Results

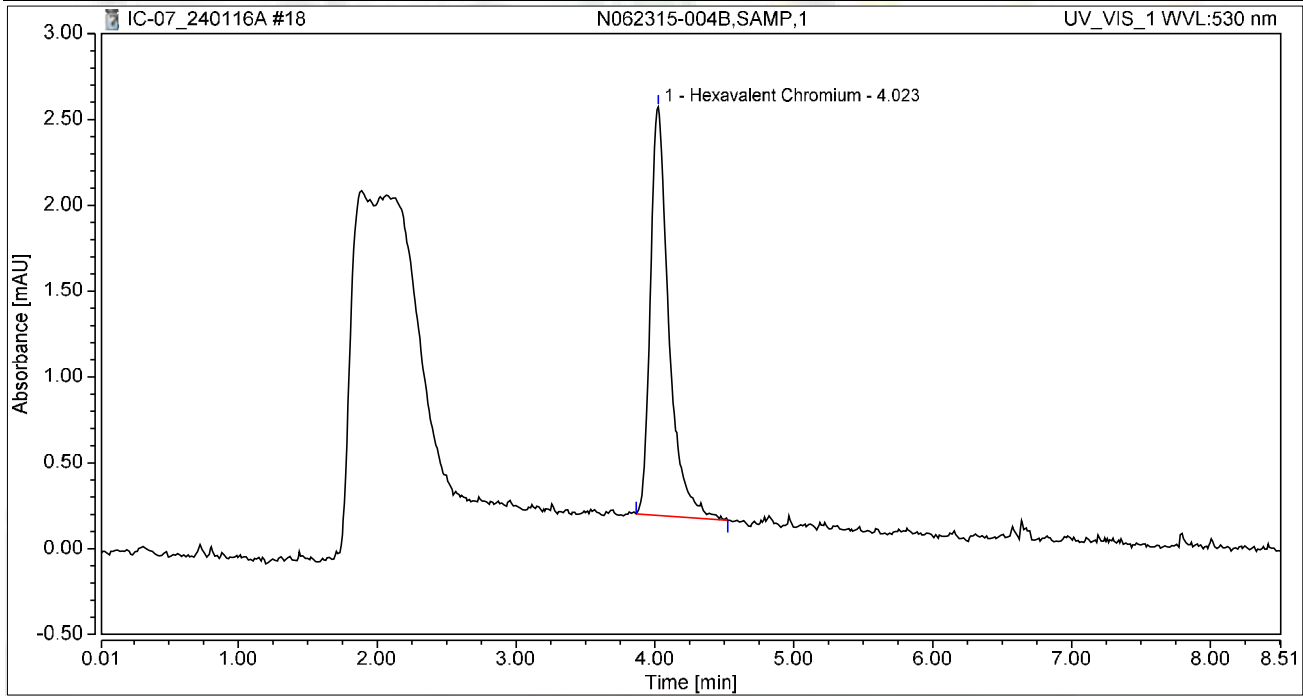
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.167	1.053	100.00	100.00	0.8025
Total:			0.167	1.053	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-004B,SAMP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:03	Sample Weight:	1.0000

Chromatogram



Integration Results

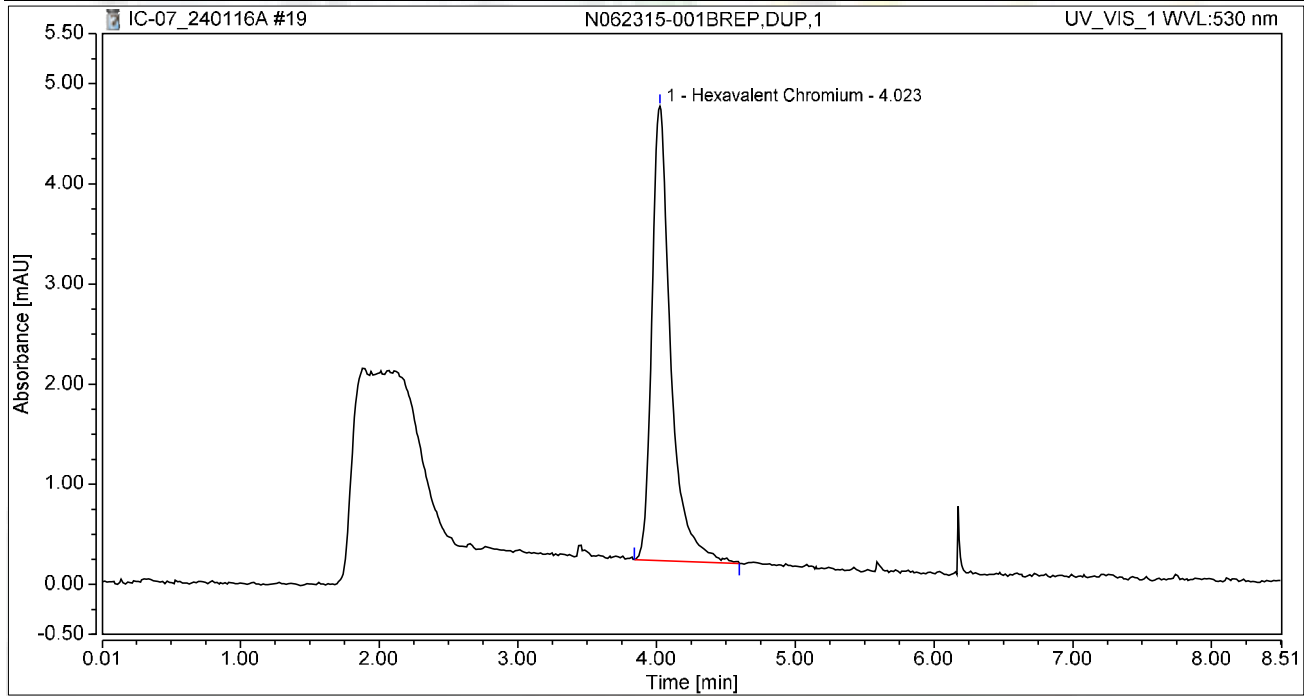
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.367	2.380	100.00	100.00	1.7654
Total:			0.367	2.380	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-001BREP,DUP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:12	Sample Weight:	1.0000

Chromatogram



Integration Results

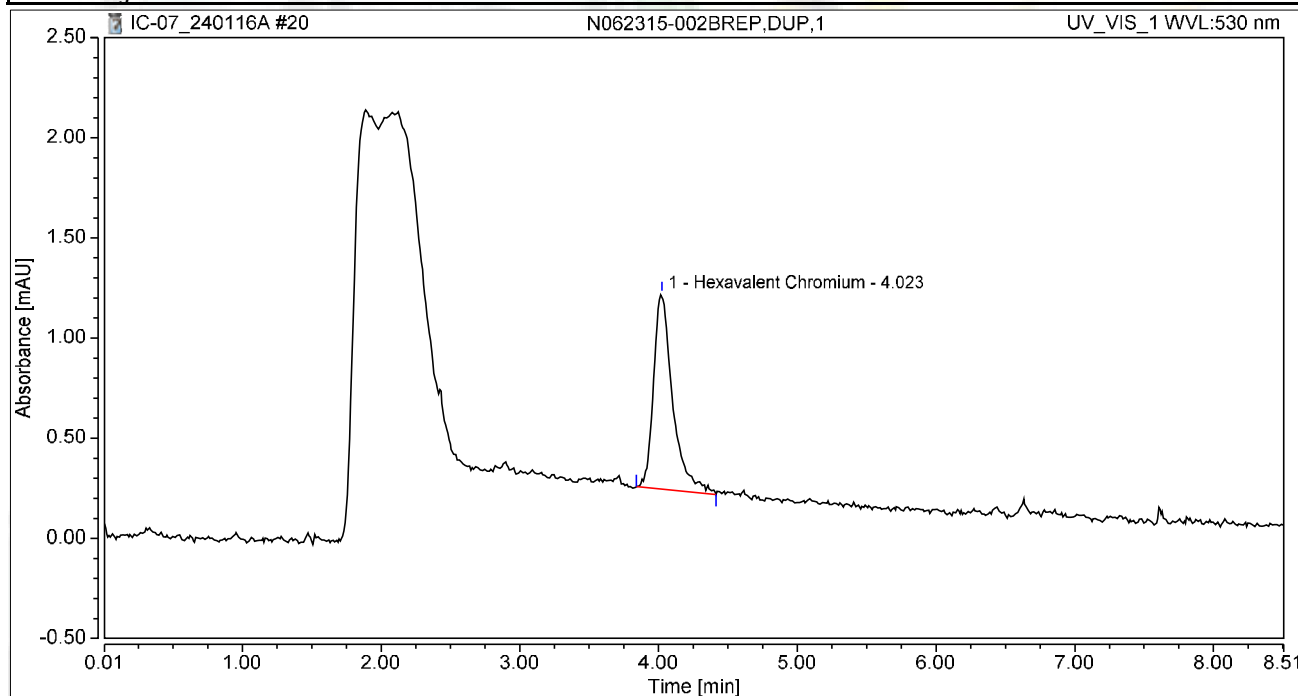
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.716	4.534	100.00	100.00	3.4426
Total:			0.716	4.534	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-002BREP,DUP,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:22	Sample Weight:	1.0000

Chromatogram



Integration Results

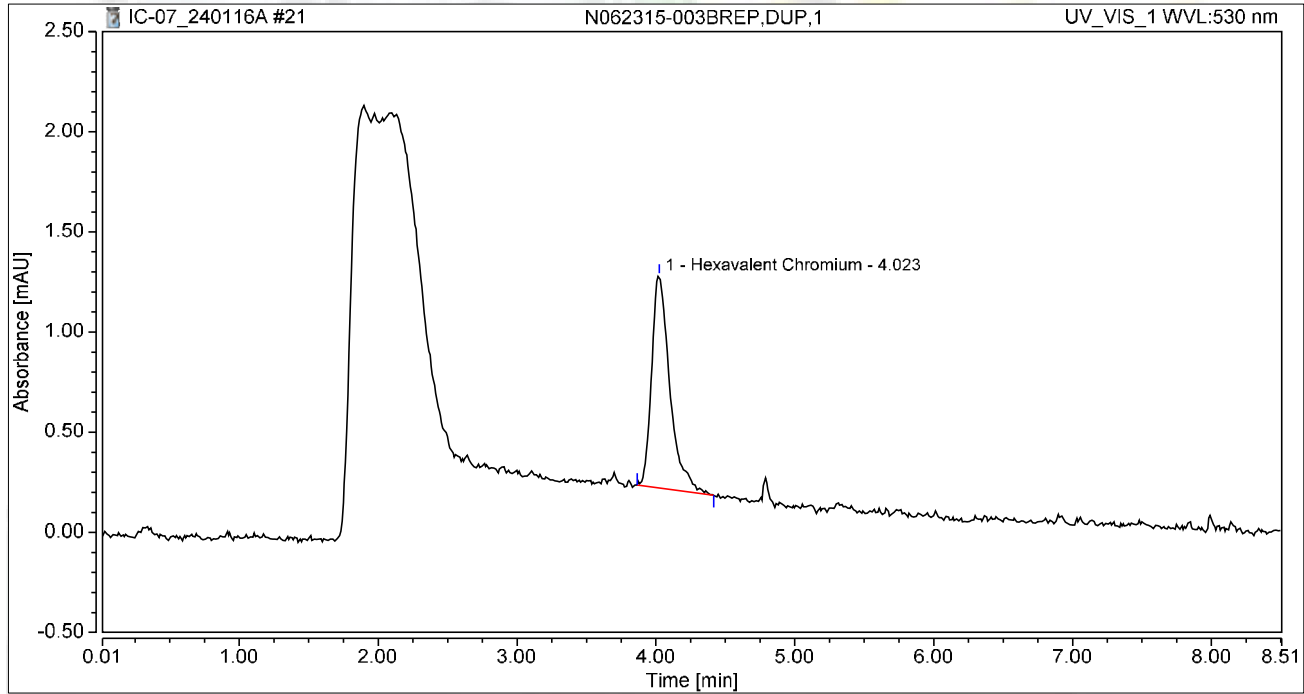
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.156	0.975	100.00	100.00	0.7483
Total:			0.156	0.975	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-003BREP,DUP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:31	Sample Weight:	1.0000

Chromatogram



Integration Results

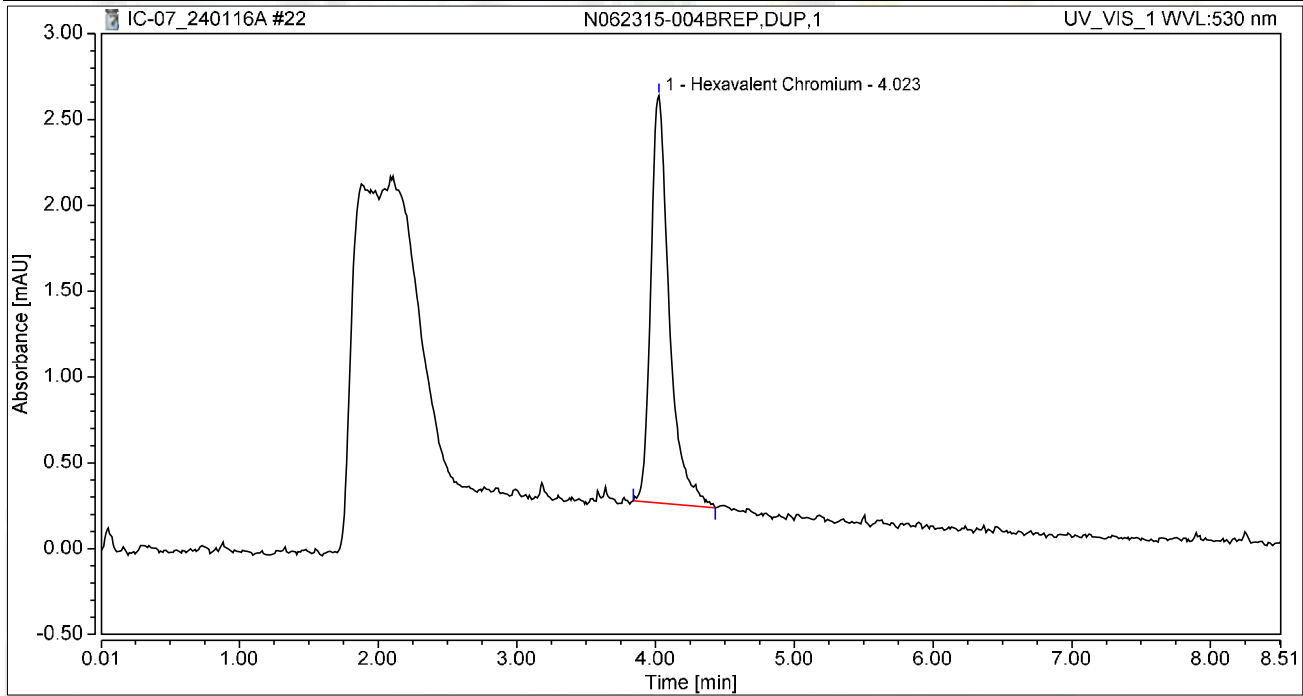
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.162	1.059	100.00	100.00	0.7773
Total:			0.162	1.059	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-004BREP,DUP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:40	Sample Weight:	1.0000

Chromatogram



Integration Results

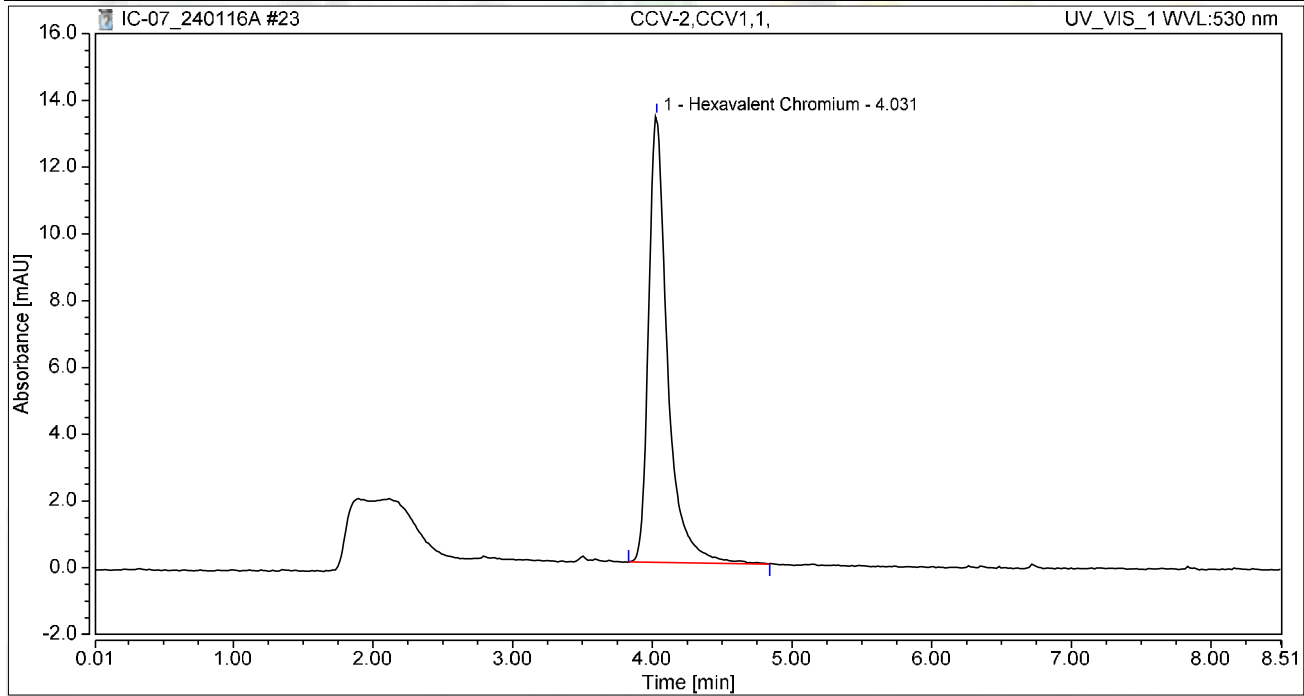
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.367	2.373	100.00	100.00	1.7638
Total:			0.367	2.373	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:50	Sample Weight:	1.0000

Chromatogram



Integration Results

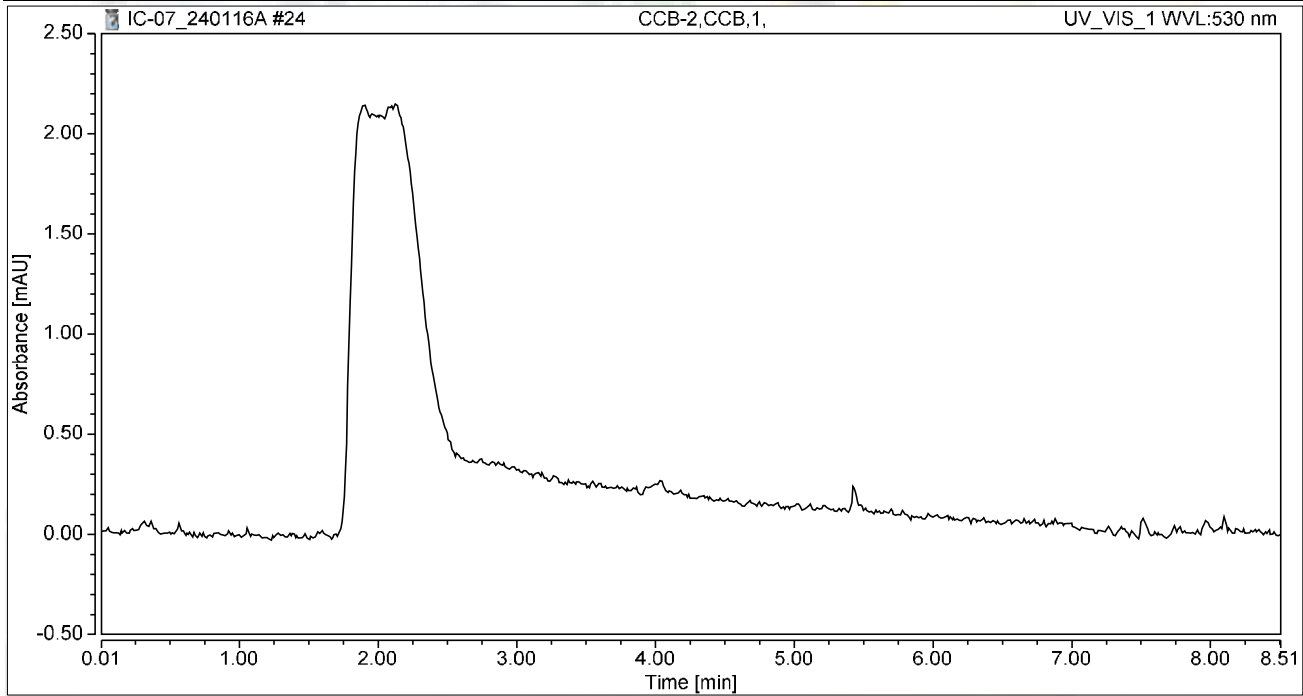
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.109	13.382	100.00	100.00	10.1369
Total:			2.109	13.382	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 12:59	Sample Weight:	1.0000

Chromatogram



Integration Results

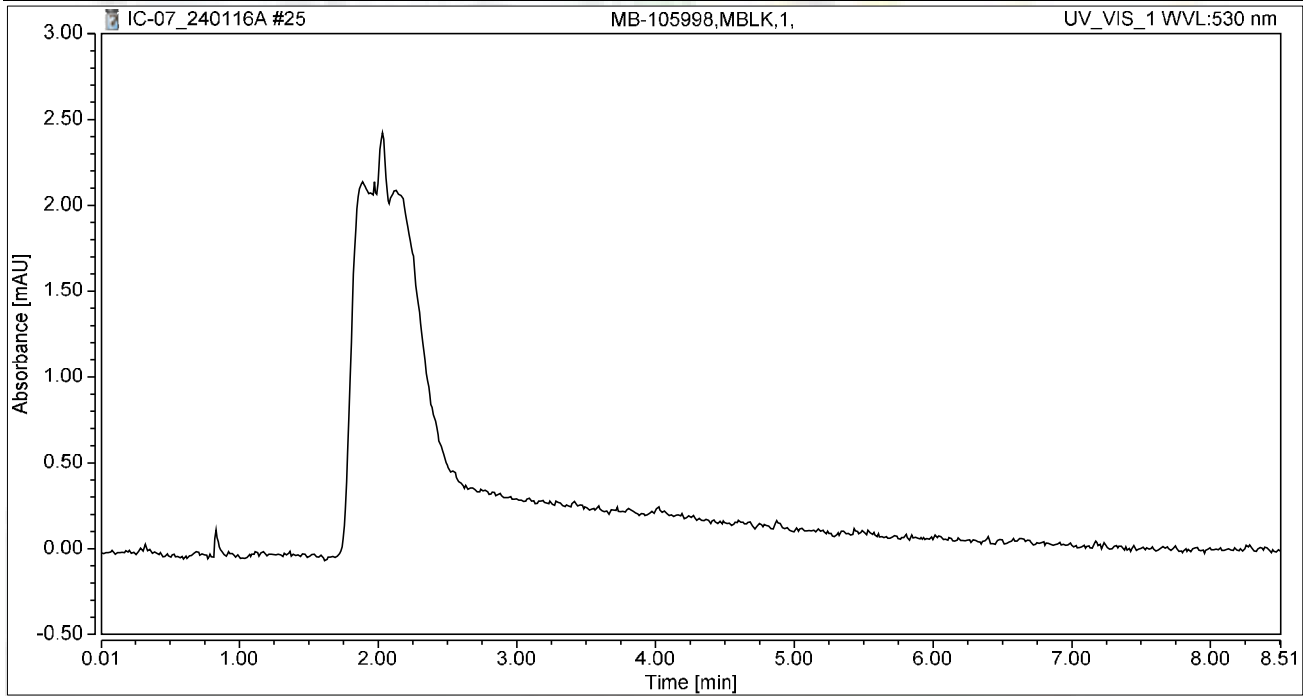
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-105998,MBLK,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:09	Sample Weight:	1.0000

Chromatogram



Integration Results

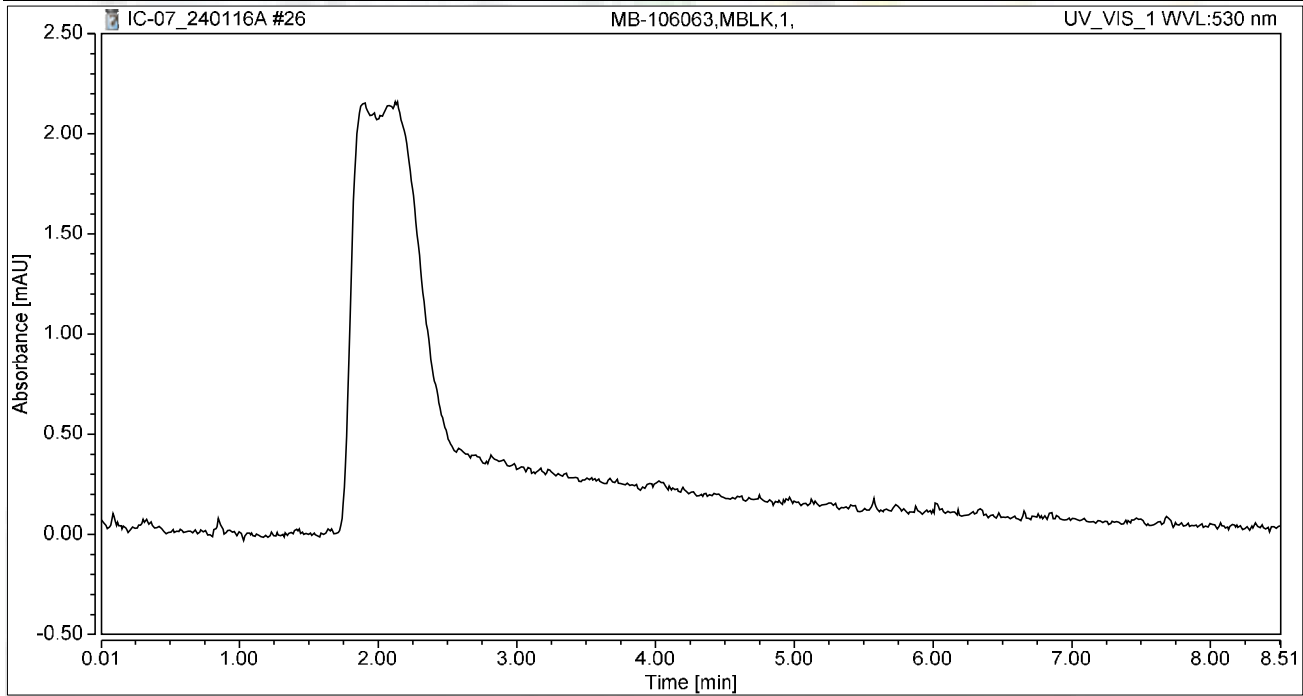
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-106063,MBLK,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:20	Sample Weight:	1.0000

Chromatogram



Integration Results

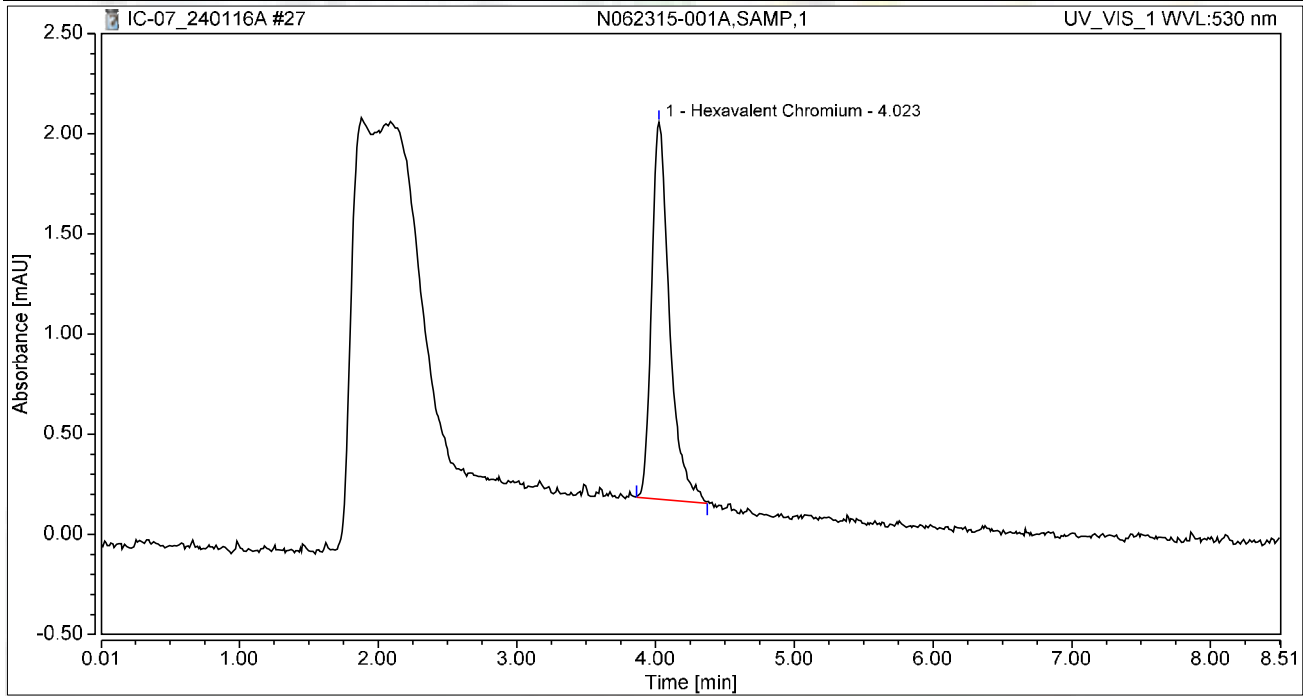
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:29	Sample Weight:	1.0000

Chromatogram



Integration Results

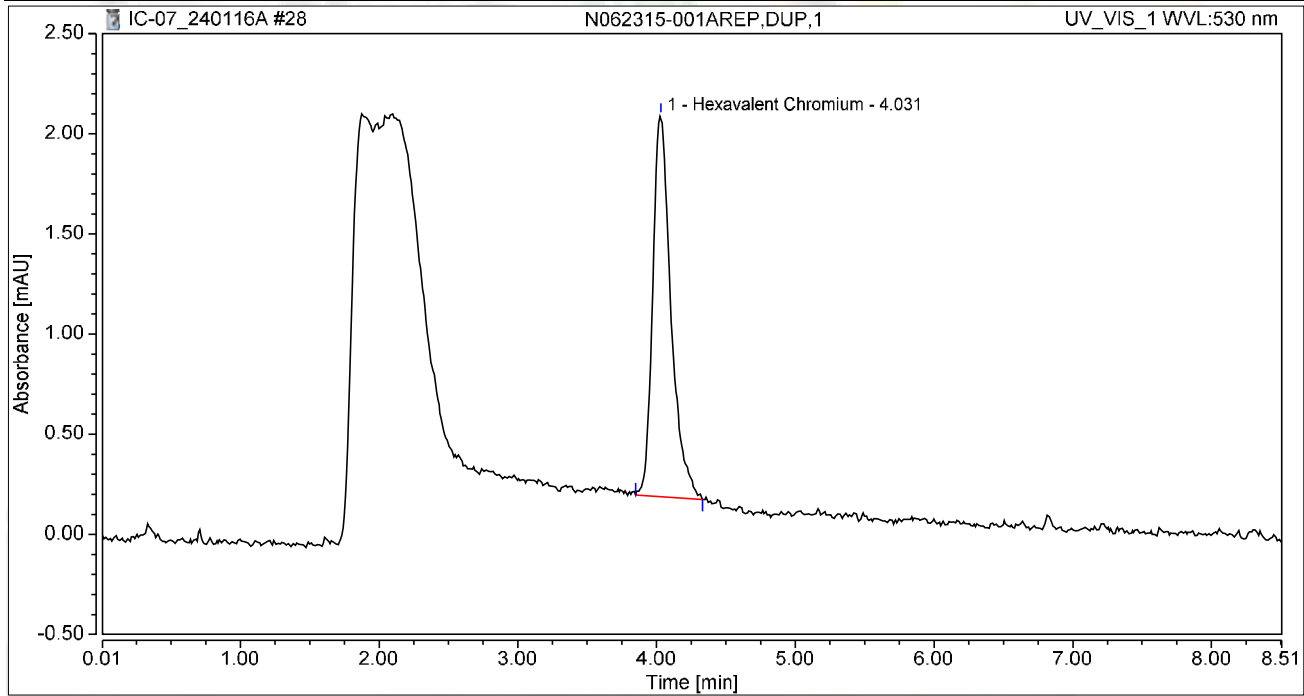
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.282	1.882	100.00	100.00	1.3540
Total:			0.282	1.882	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-001AREP,DUP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:39	Sample Weight:	1.0000

Chromatogram



Integration Results

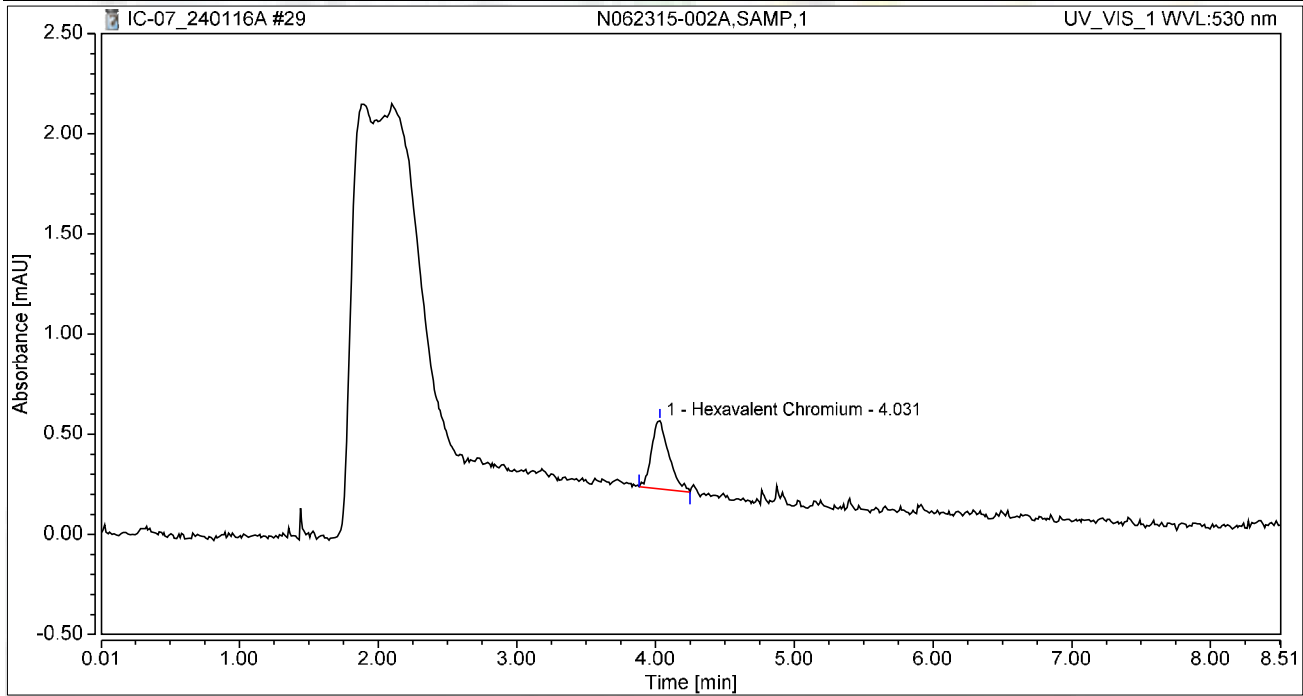
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.290	1.904	100.00	100.00	1.3930
Total:			0.290	1.904	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:48	Sample Weight:	1.0000

Chromatogram



Integration Results

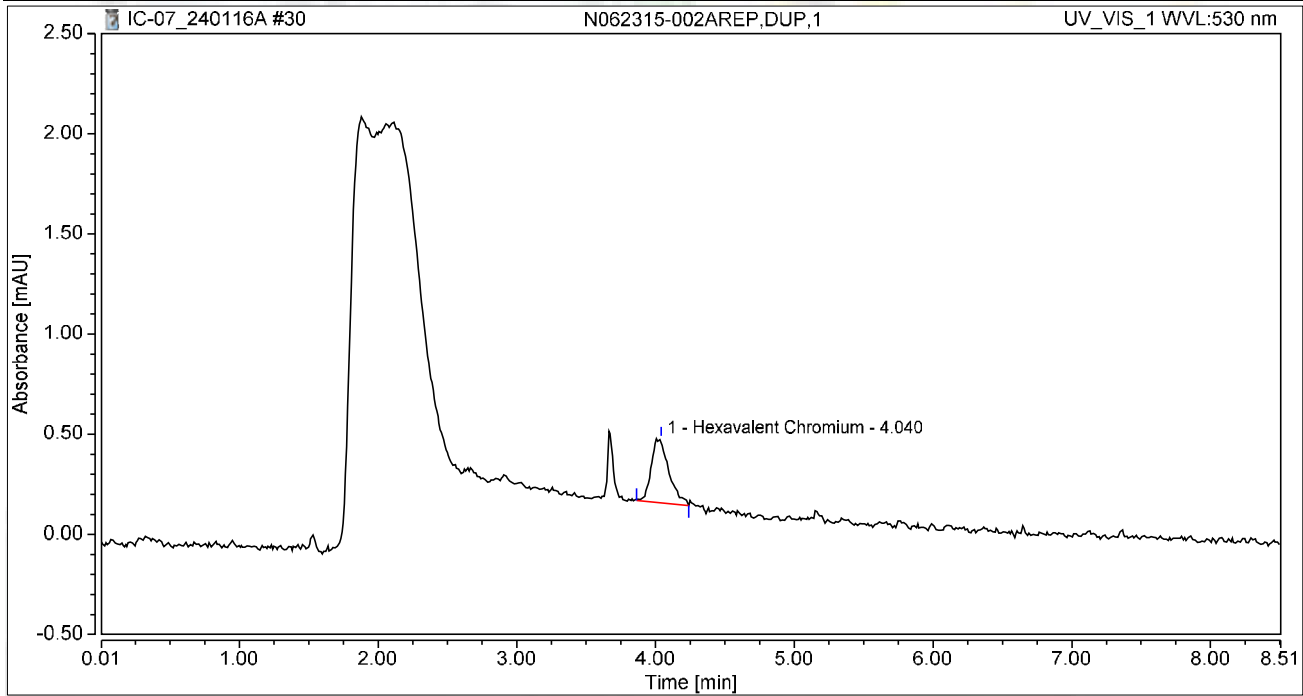
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.050	0.341	100.00	100.00	0.2388
Total:			0.050	0.341	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-002AREP,DUP,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 13:58	Sample Weight:	1.0000

Chromatogram



Integration Results

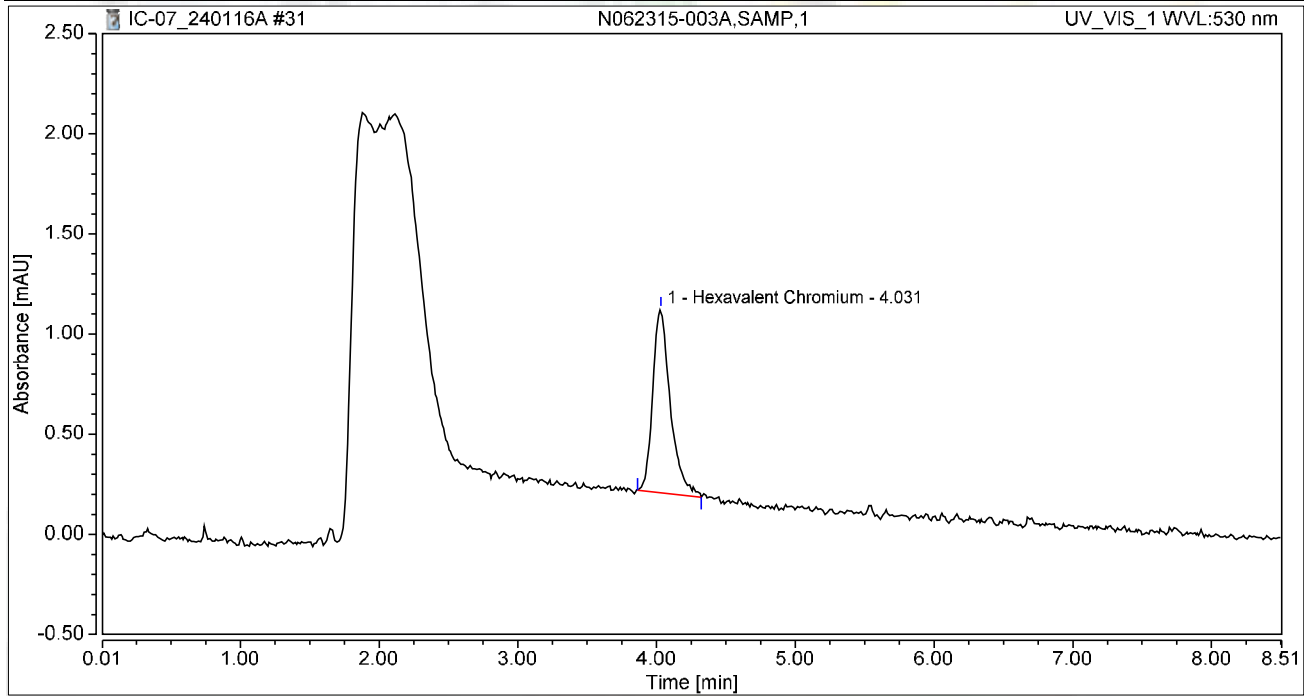
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.047	0.321	100.00	100.00	0.2279
Total:			0.047	0.321	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:07	Sample Weight:	1.0000

Chromatogram



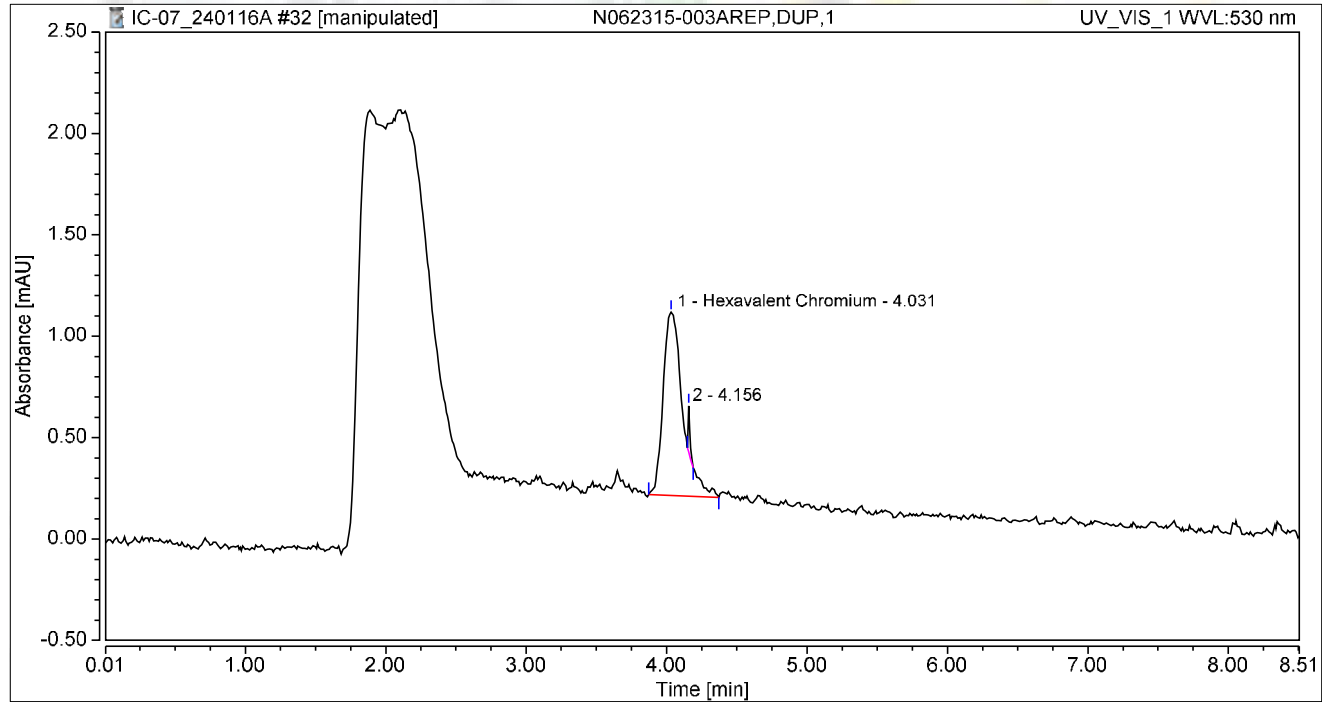
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.135	0.918	100.00	100.00	0.6483
Total:			0.135	0.918	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062315-003AREP,DUP,1	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	16/Jan/24 14:17	Sample Weight: 1.0000

Chromatogram



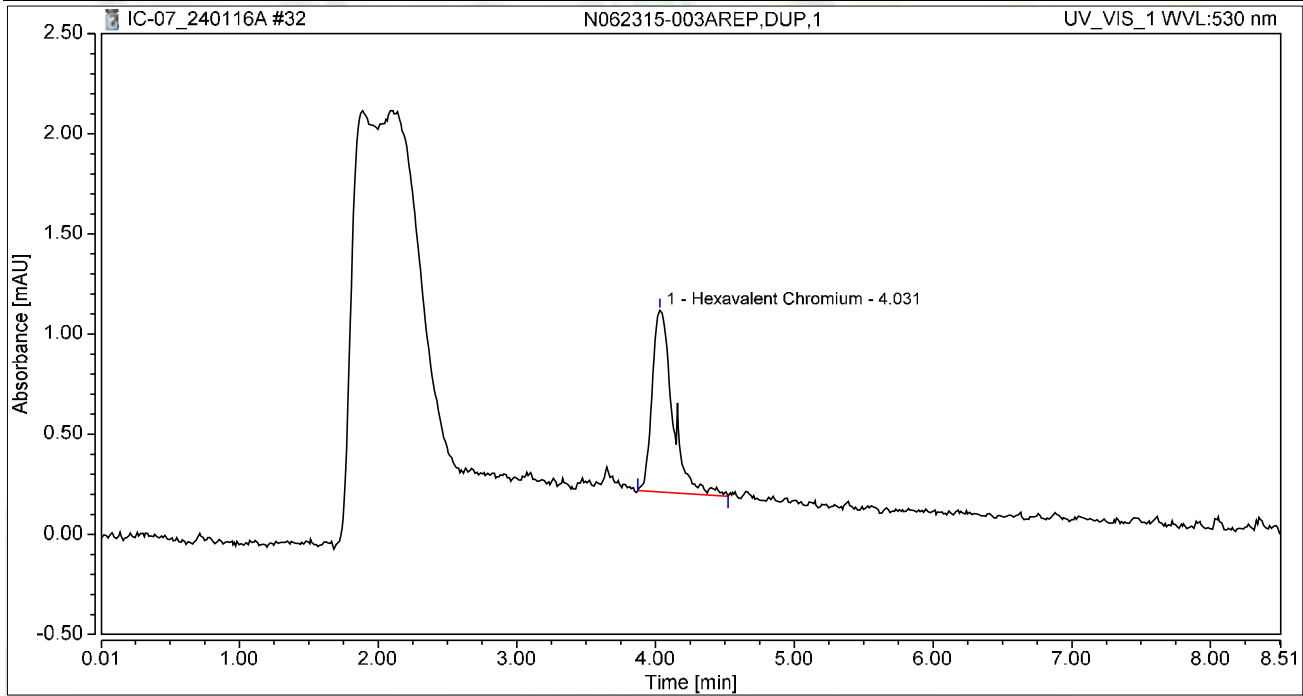
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.146	0.904	97.55	79.87	0.7034
2		4.156	0.004	0.228	2.45	20.13	n.a.
Total:			0.150	1.131	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-003AREP,DUP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:17	Sample Weight:	1.0000

Chromatogram



Integration Results

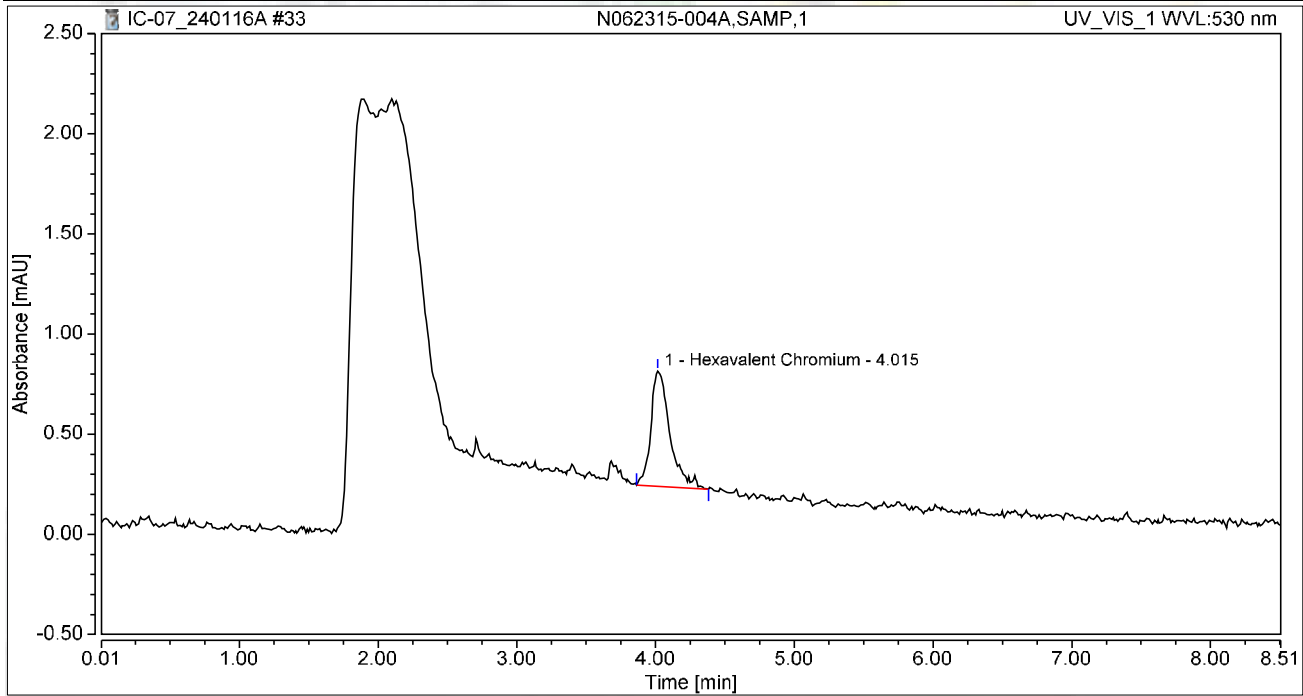
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.156	0.906	100.00	100.00	0.7475
Total:			0.156	0.906	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:26	Sample Weight:	1.0000

Chromatogram



Integration Results

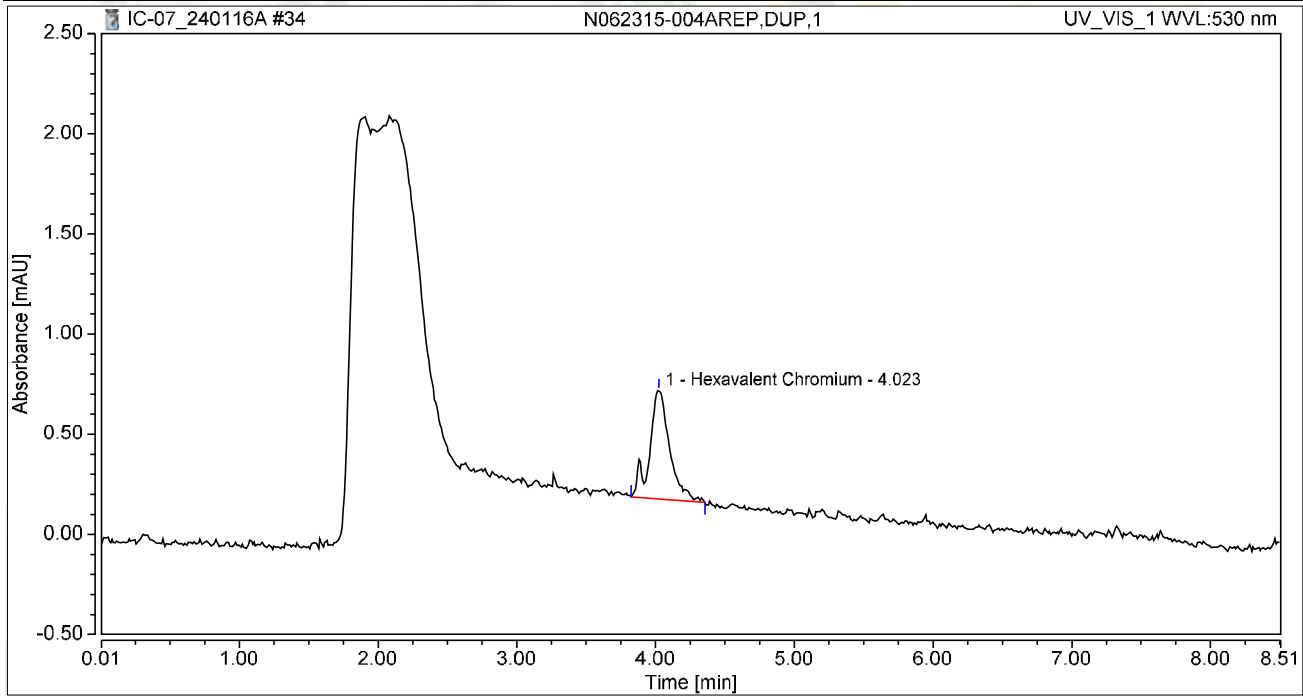
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.091	0.575	100.00	100.00	0.4397
Total:			0.091	0.575	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062315-004AREP,DUP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:35	Sample Weight:	1.0000

Chromatogram



Integration Results

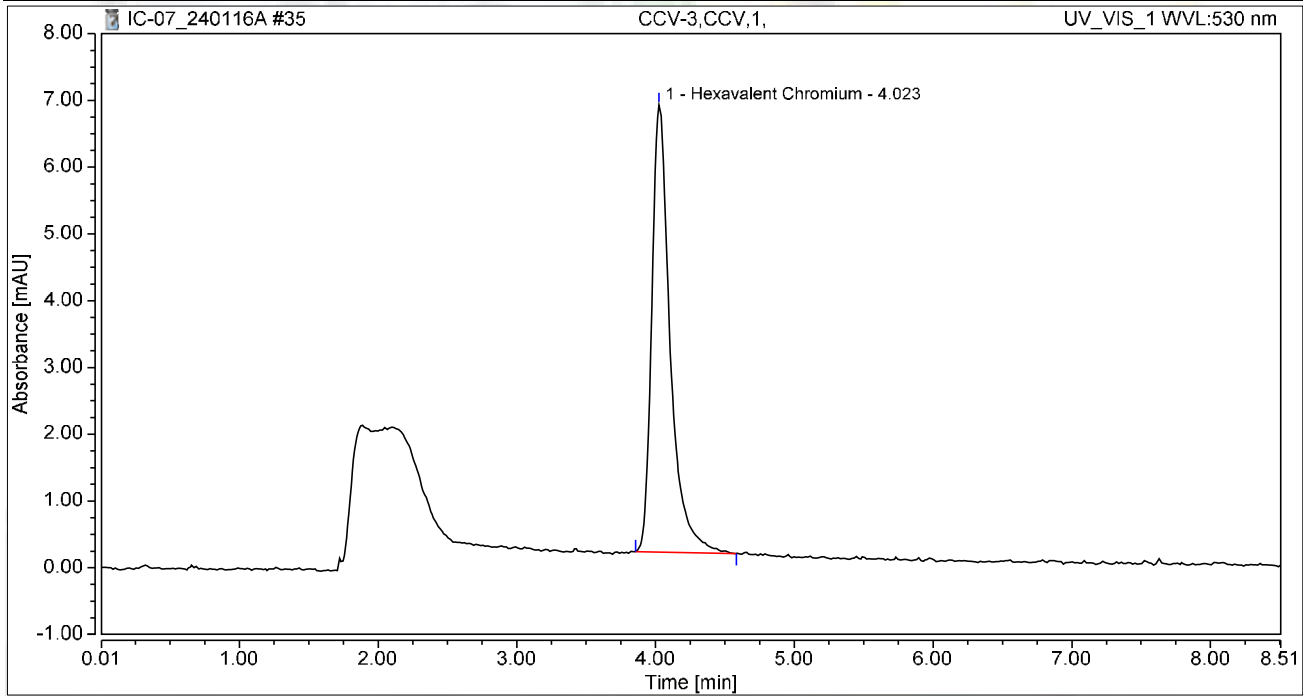
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.091	0.541	100.00	100.00	0.4371
Total:			0.091	0.541	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:45	Sample Weight:	1.0000

Chromatogram



Integration Results

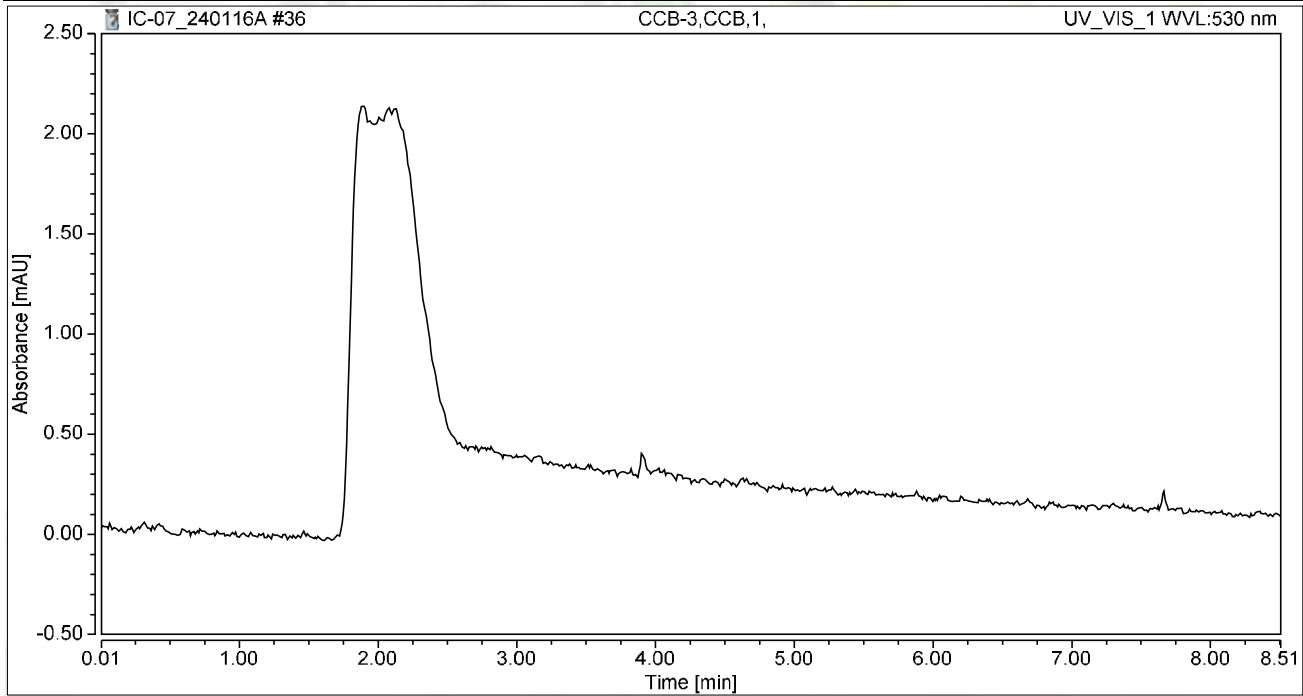
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.032	6.701	100.00	100.00	4.9583
Total:			1.032	6.701	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 14:54	Sample Weight:	1.0000

Chromatogram



Integration Results

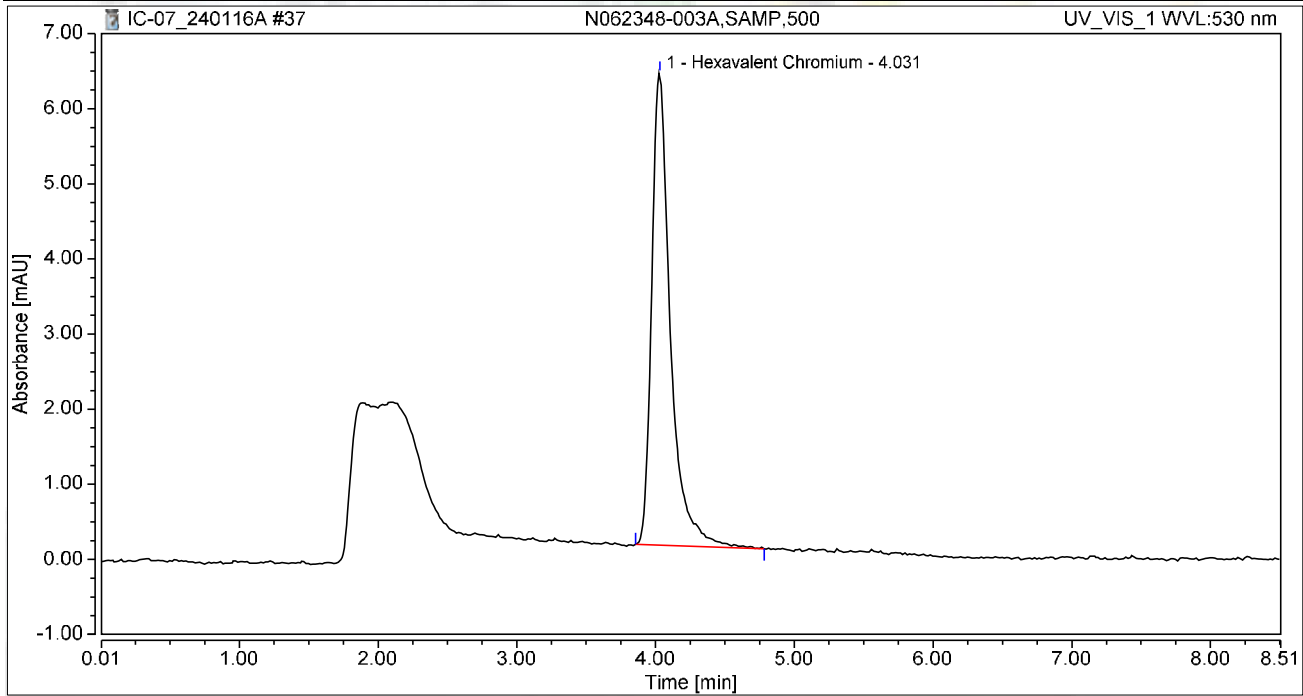
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-003A,SAMP,500	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:04	Sample Weight:	1.0000

Chromatogram



Integration Results

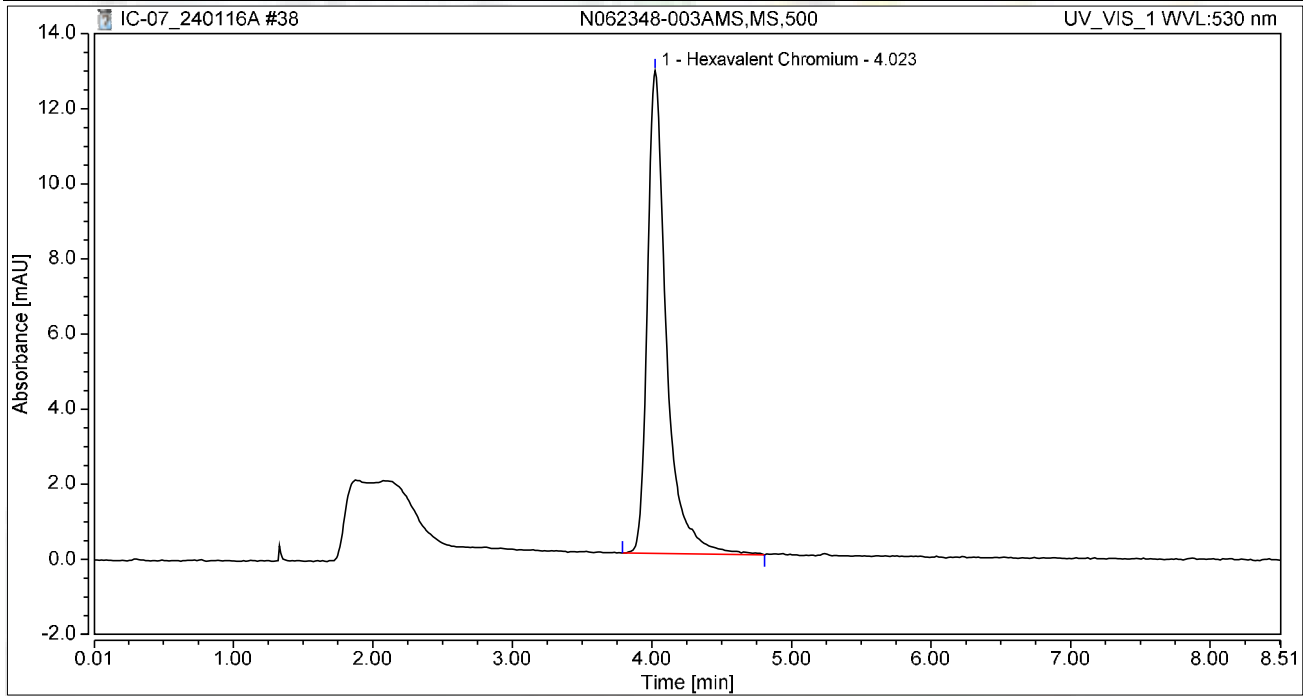
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.982	6.282	100.00	100.00	4.7213
Total:			0.982	6.282	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-003AMS,MS,500	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:13	Sample Weight:	1.0000

Chromatogram



Integration Results

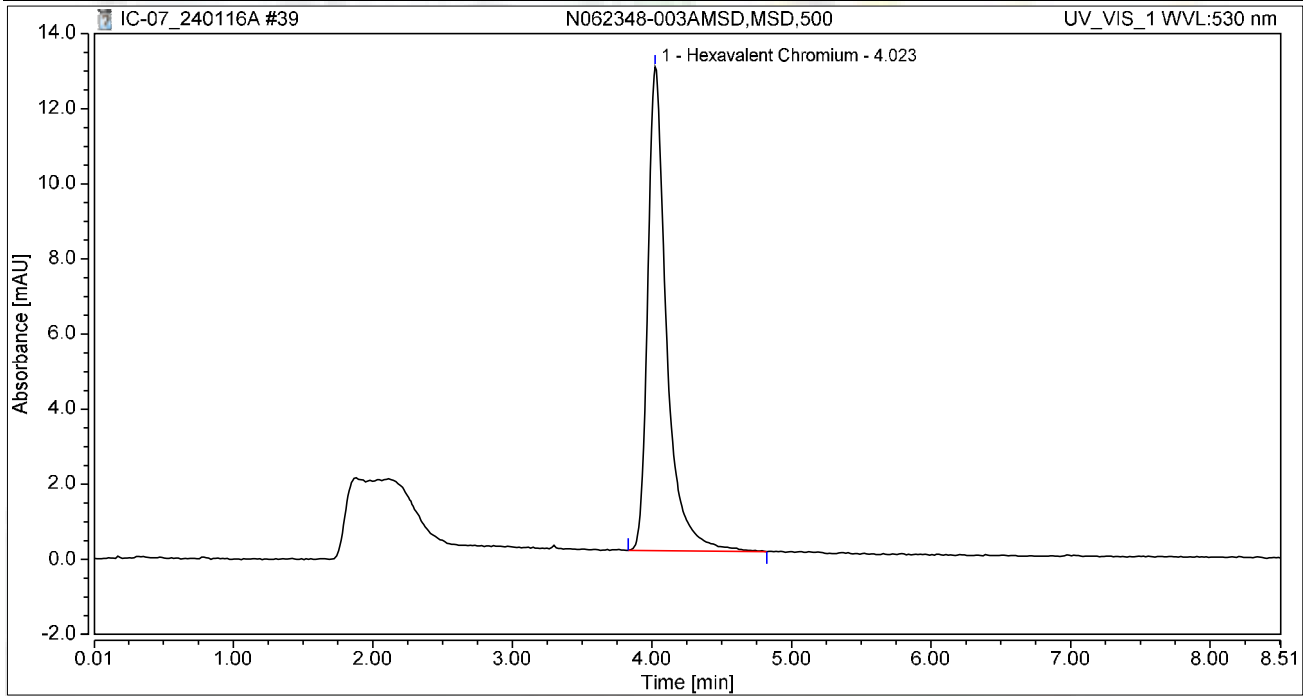
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.031	12.854	100.00	100.00	9.7588
Total:			2.031	12.854	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-003AMSD,MSD,500	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:23	Sample Weight:	1.0000

Chromatogram



Integration Results

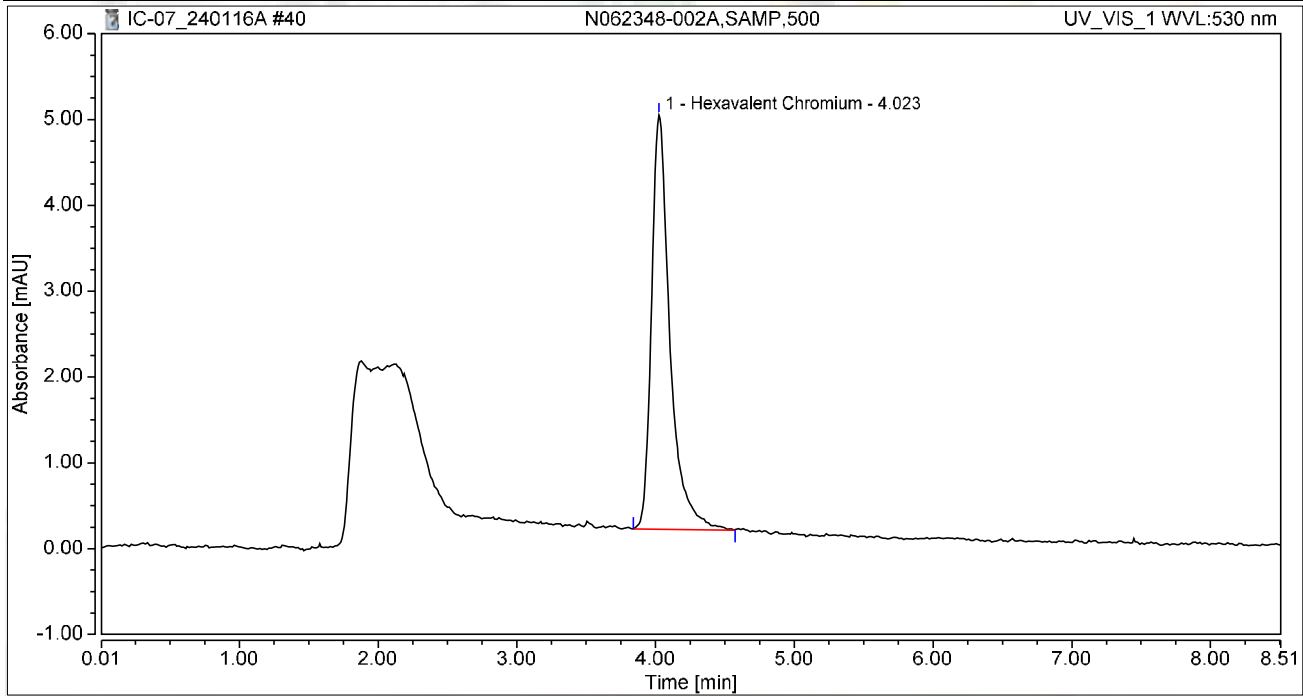
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.016	12.884	100.00	100.00	9.6882
Total:			2.016	12.884	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-002A,SAMP,500	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:32	Sample Weight:	1.0000

Chromatogram



Integration Results

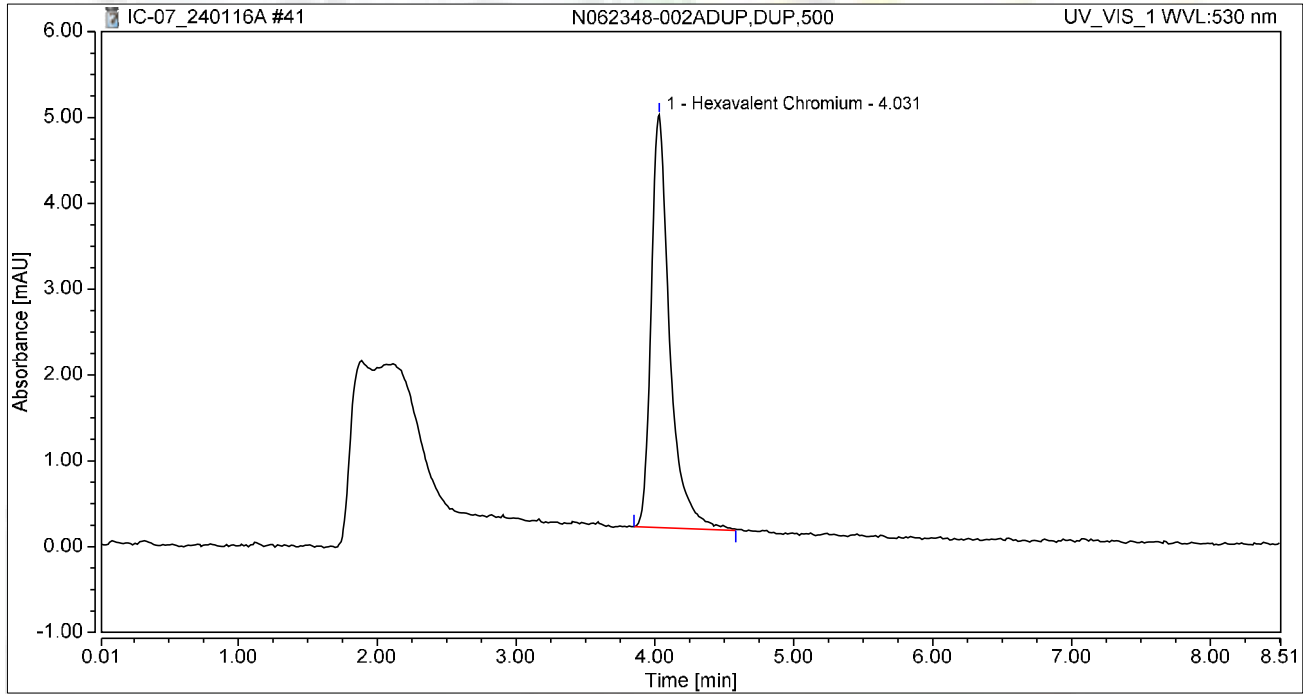
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.744	4.828	100.00	100.00	3.5742
Total:			0.744	4.828	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-002ADUP,DUP,500	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:42	Sample Weight:	1.0000

Chromatogram



Integration Results

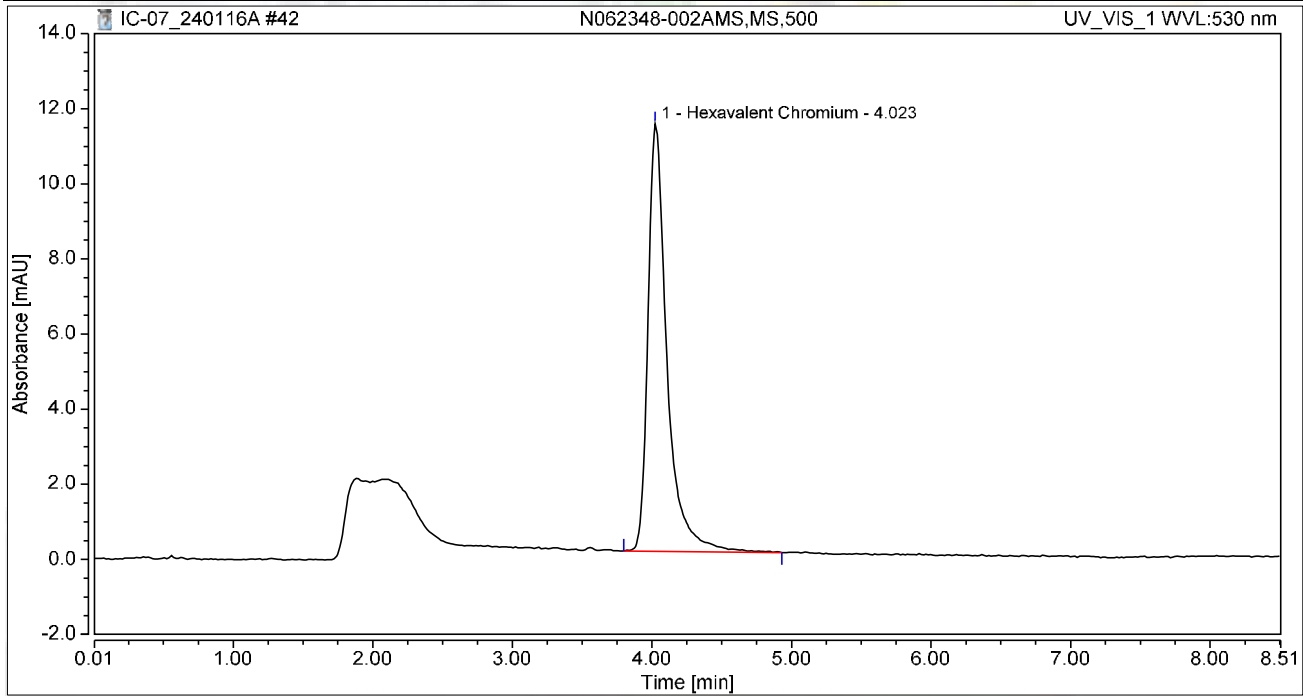
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.744	4.810	100.00	100.00	3.5736
Total:			0.744	4.810	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-002AMS,MS,500	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 15:51	Sample Weight:	1.0000

Chromatogram



Integration Results

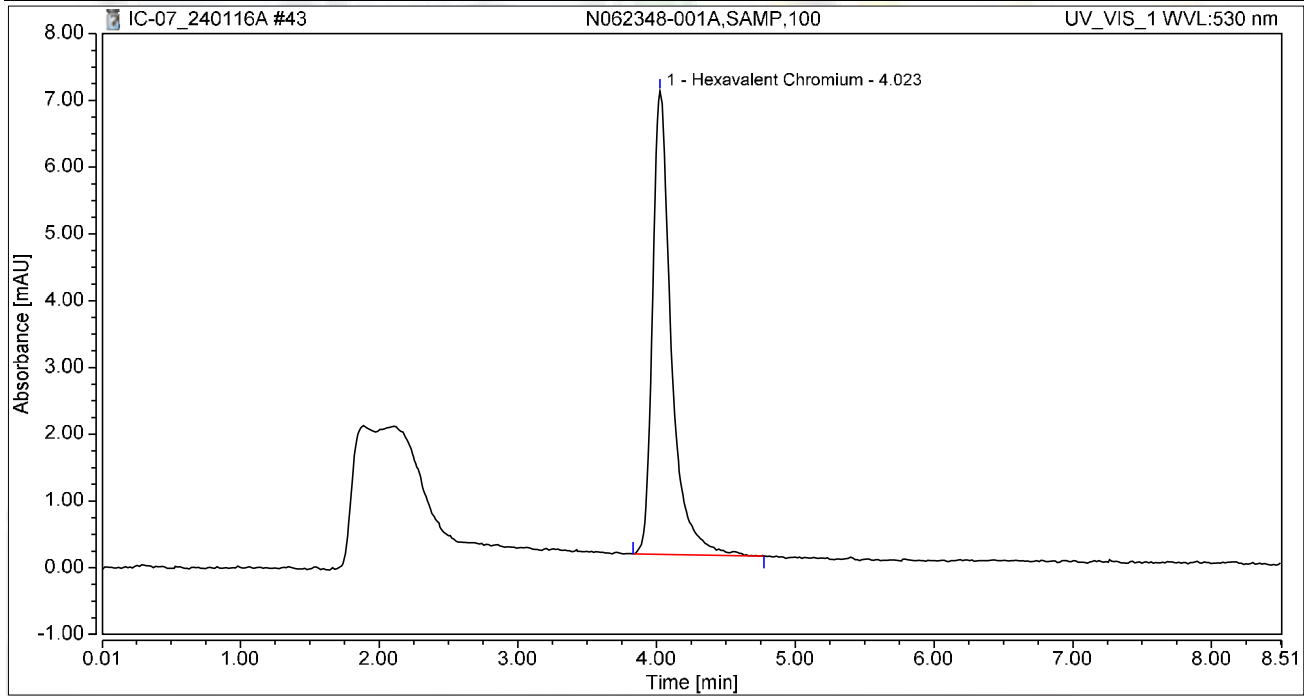
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.799	11.380	100.00	100.00	8.6481
Total:			1.799	11.380	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-001A,SAMP,100	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:01	Sample Weight:	1.0000

Chromatogram



Integration Results

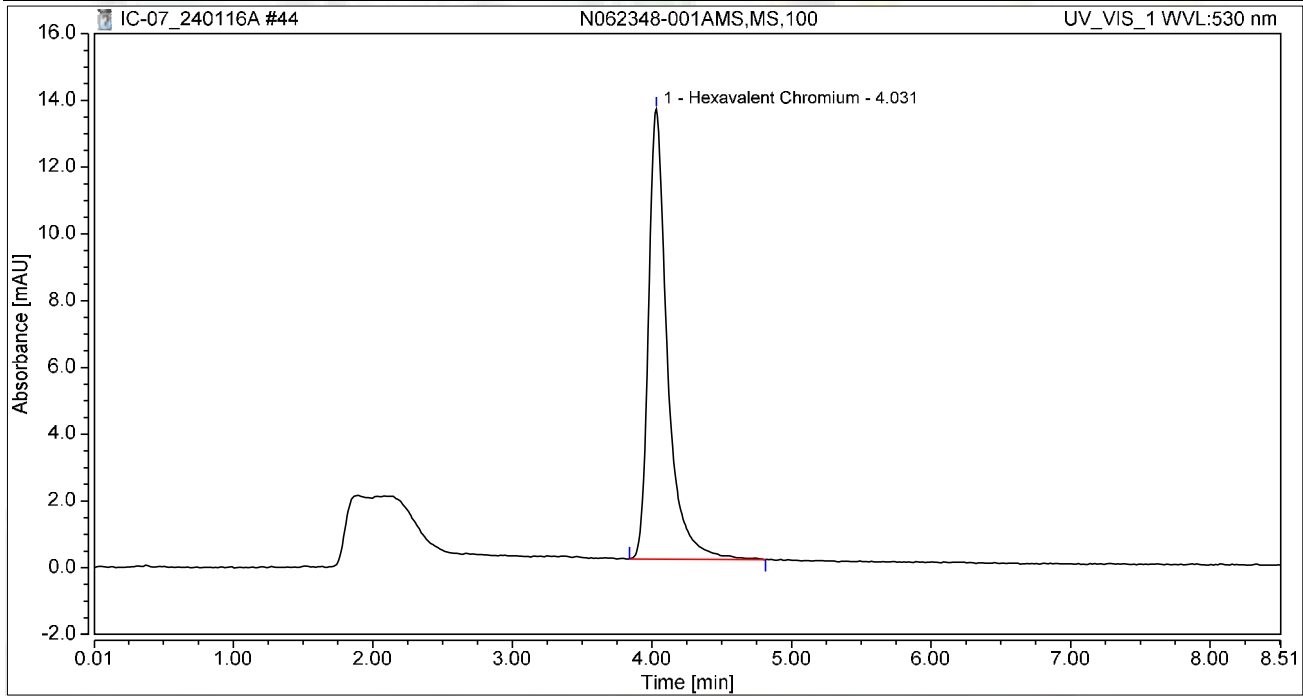
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.089	6.940	100.00	100.00	5.2350
Total:			1.089	6.940	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-001AMS,MS,100	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:13	Sample Weight:	1.0000

Chromatogram



Integration Results

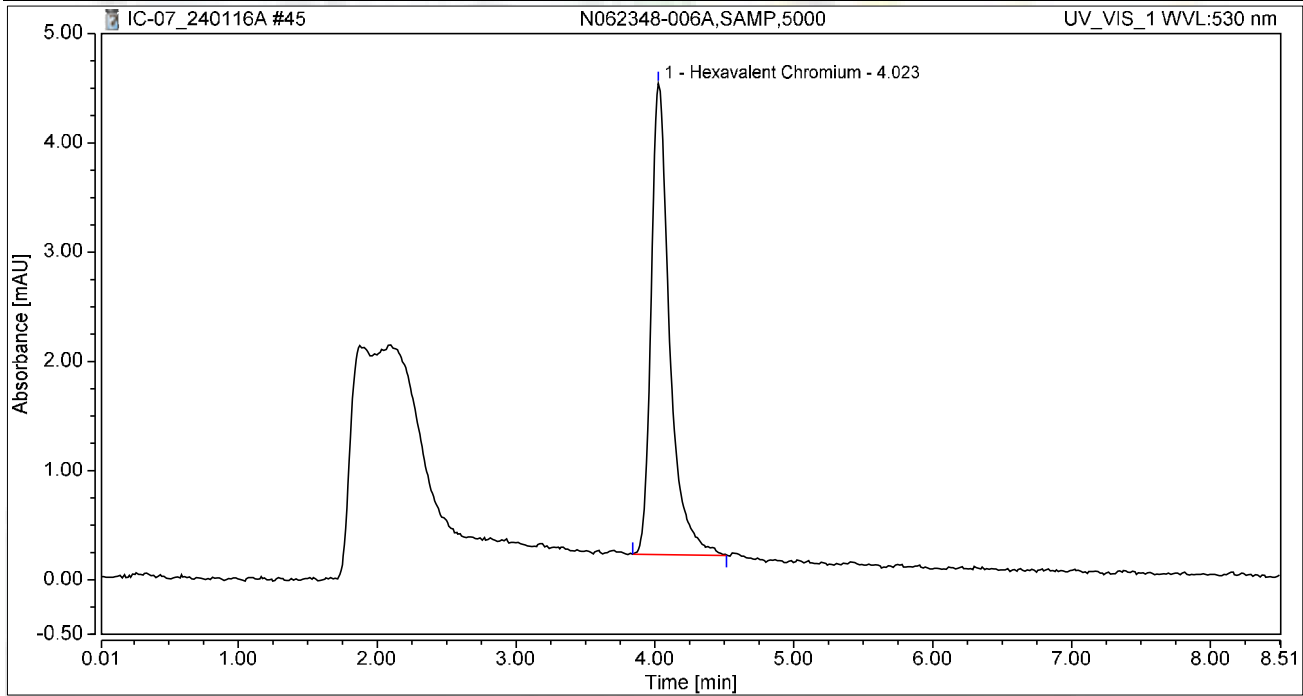
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.118	13.480	100.00	100.00	10.1794
Total:			2.118	13.480	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-006A,SAMP,5000	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

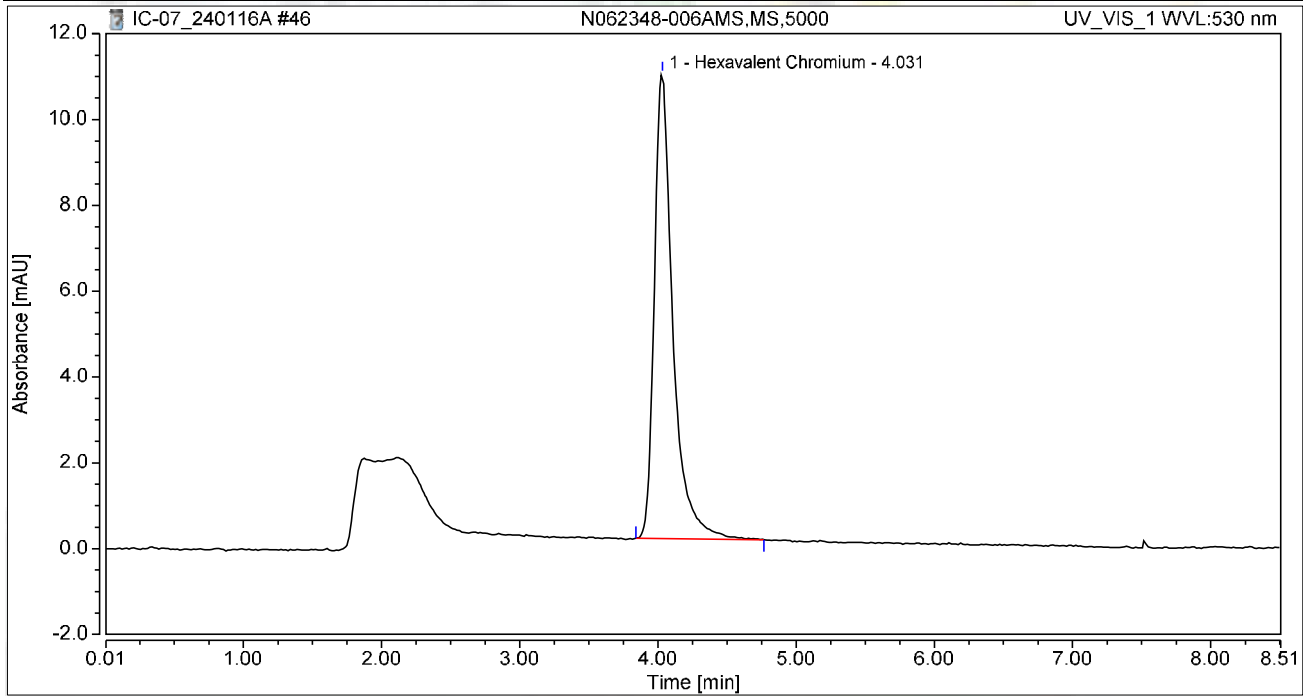
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.667	4.312	100.00	100.00	3.2062
Total:			0.667	4.312	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-006AMS,MS,5000	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

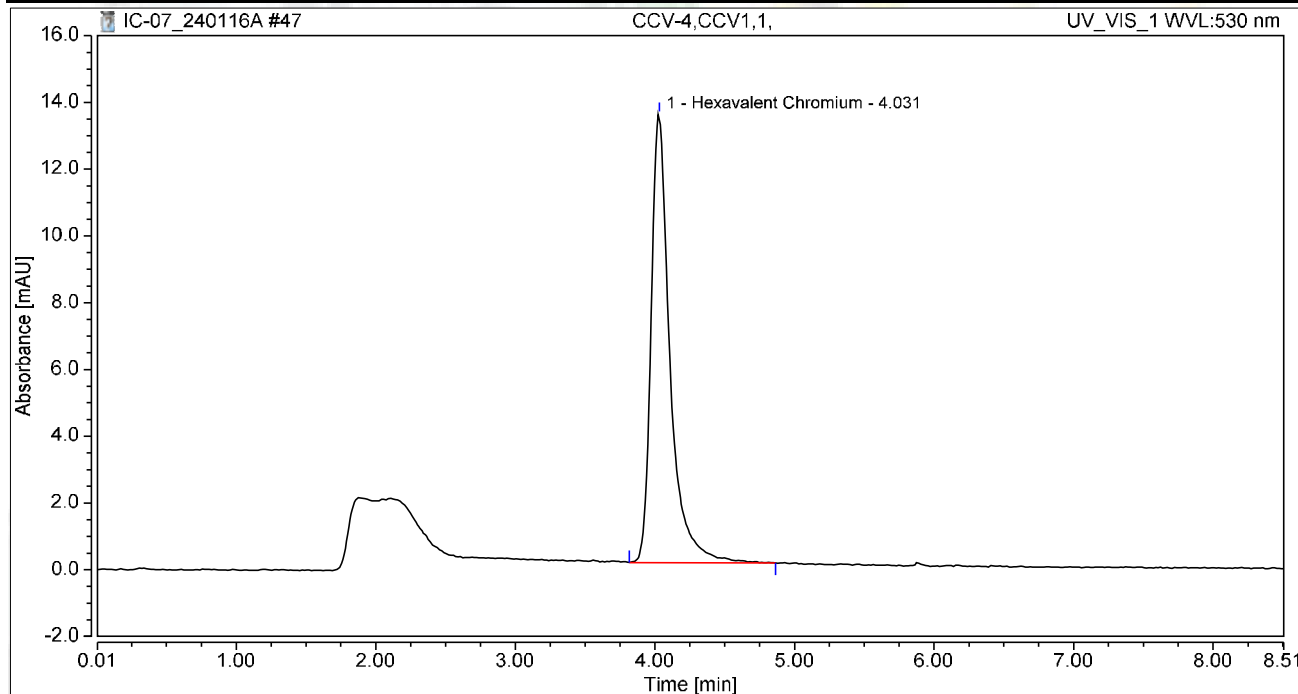
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.689	10.834	100.00	100.00	8.1160
Total:			1.689	10.834	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

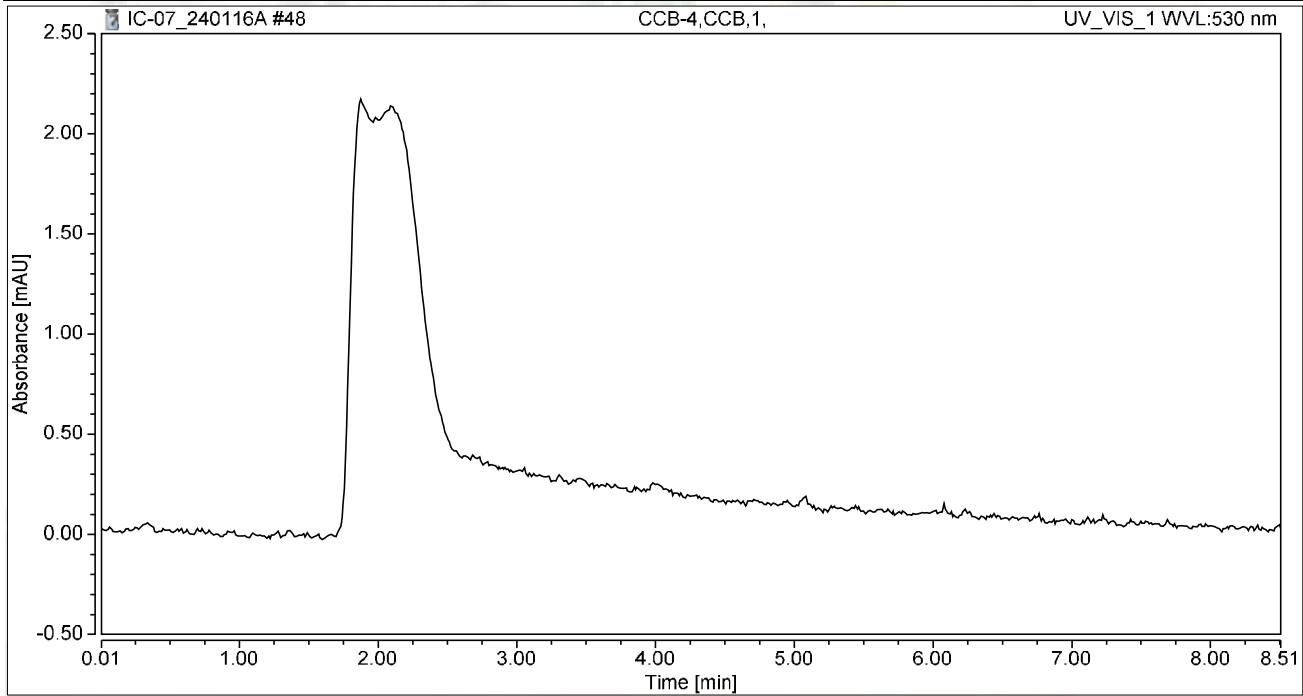
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.111	13.432	100.00	100.00	10.1459
Total:			2.111	13.432	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

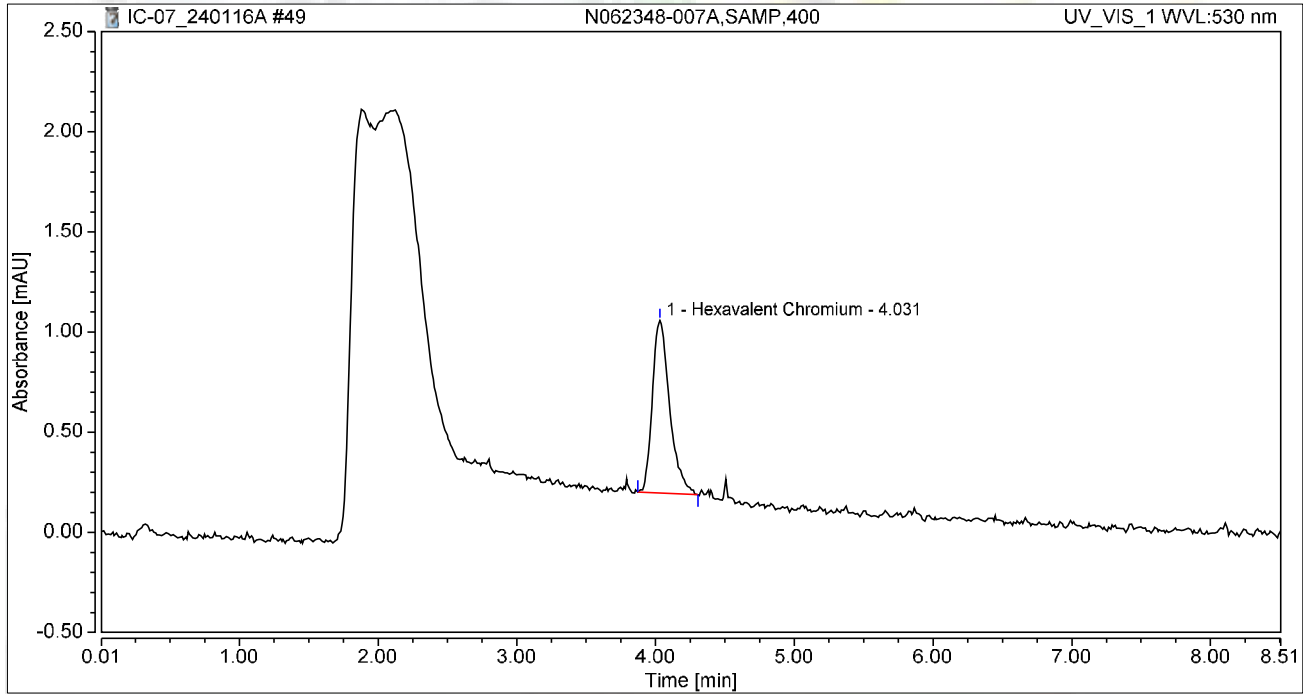


Chromatogram and Results

Injection Details

Injection Name:	N062348-007A,SAMP,400	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:01	Sample Weight:	1.0000

Chromatogram



Integration Results

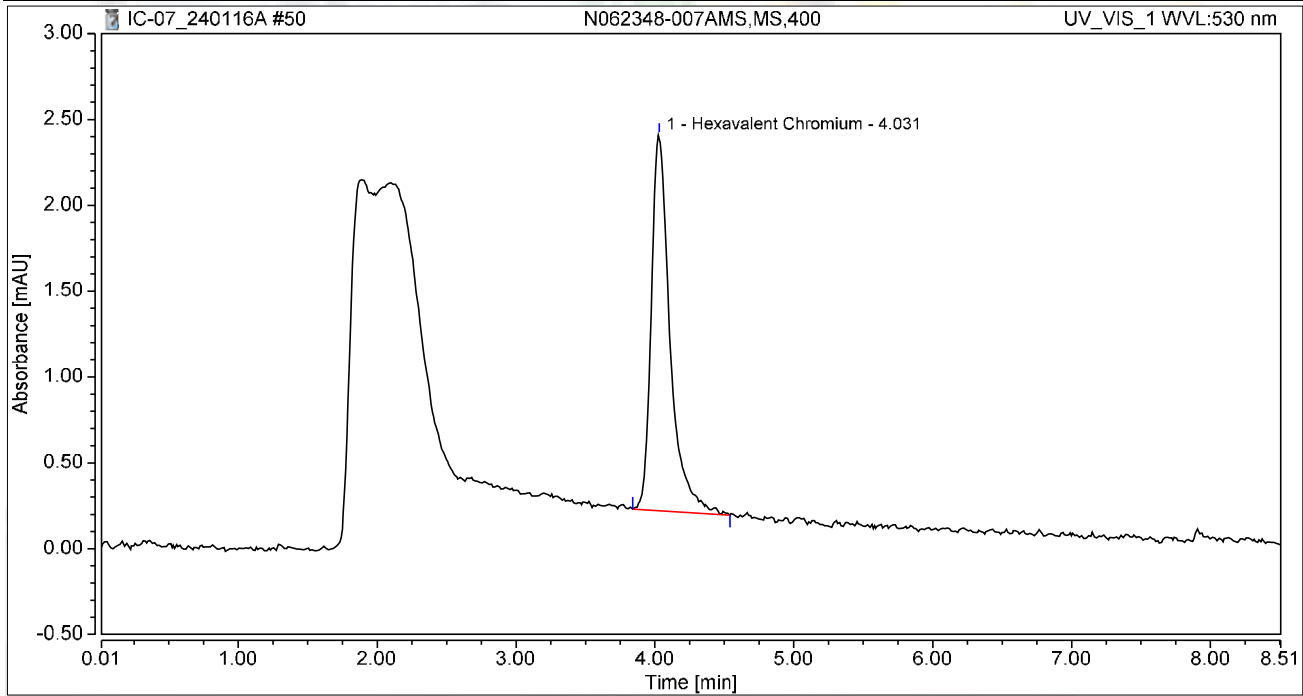
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.124	0.861	100.00	100.00	0.5977
Total:			0.124	0.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-007AMS,MS,400	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

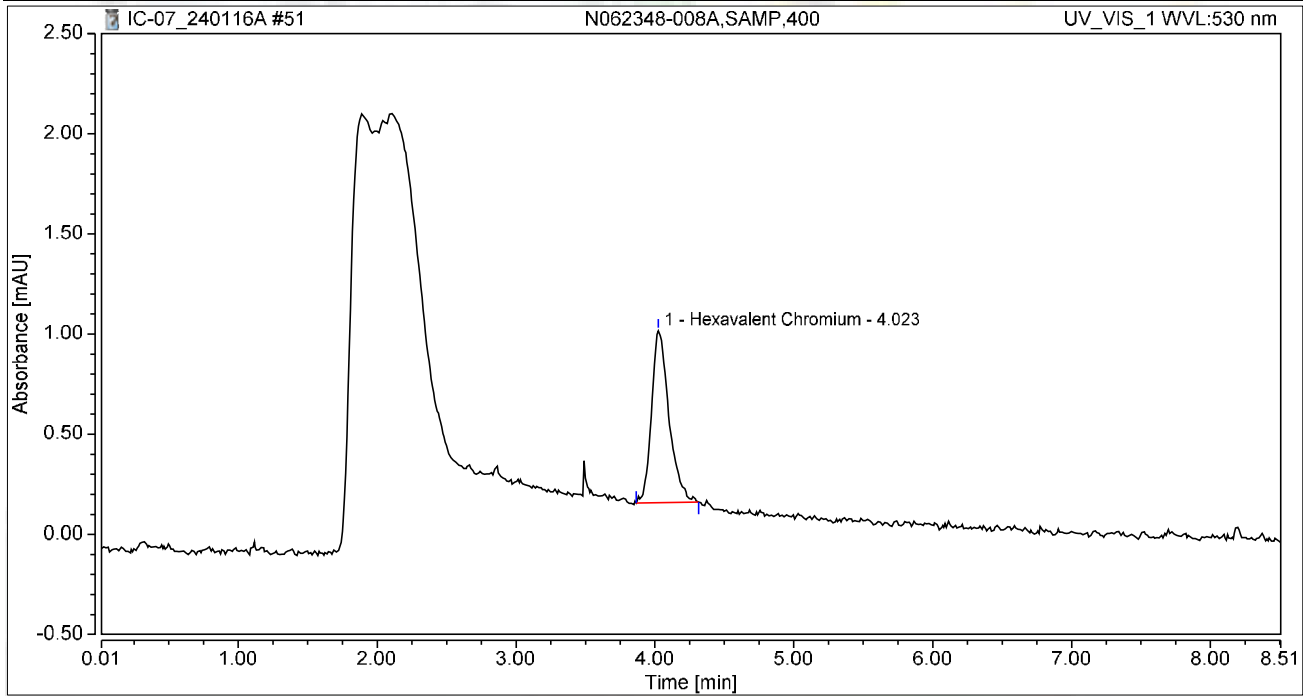
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.344	2.189	100.00	100.00	1.6516
Total:			0.344	2.189	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-008A,SAMP,400	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:20	Sample Weight:	1.0000

Chromatogram



Integration Results

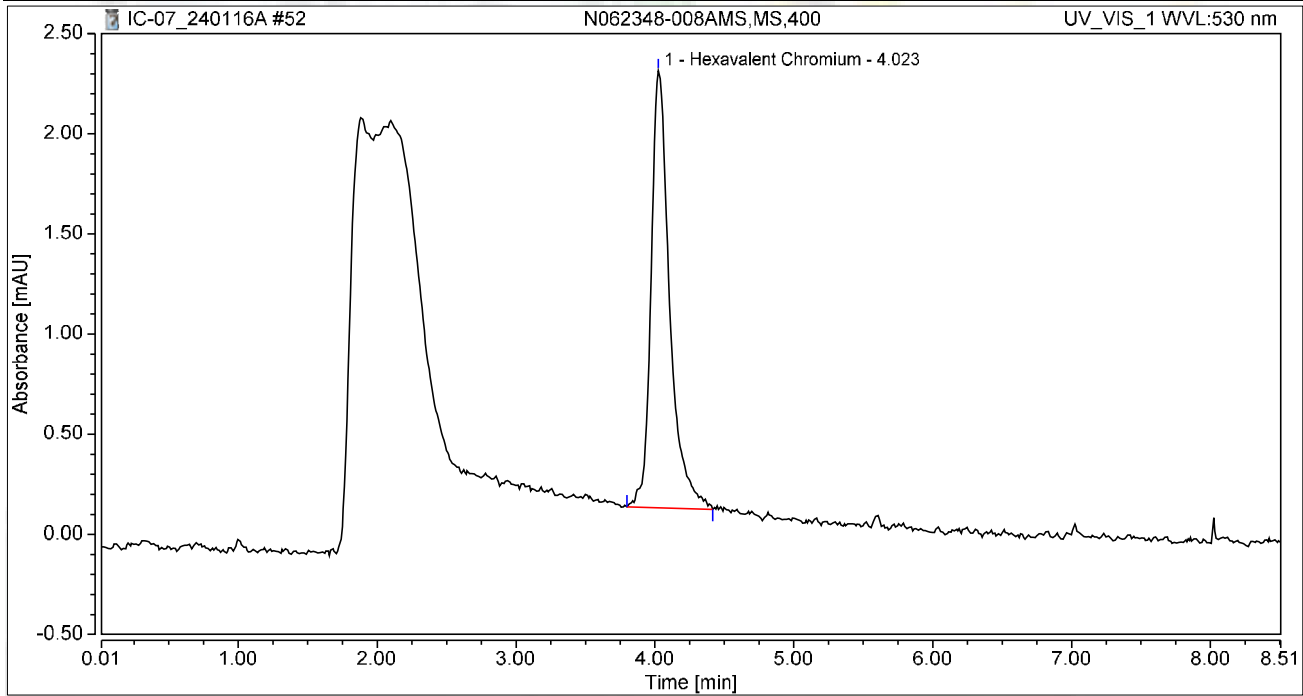
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.125	0.858	100.00	100.00	0.6029
Total:			0.125	0.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-008AMS,MS,400	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

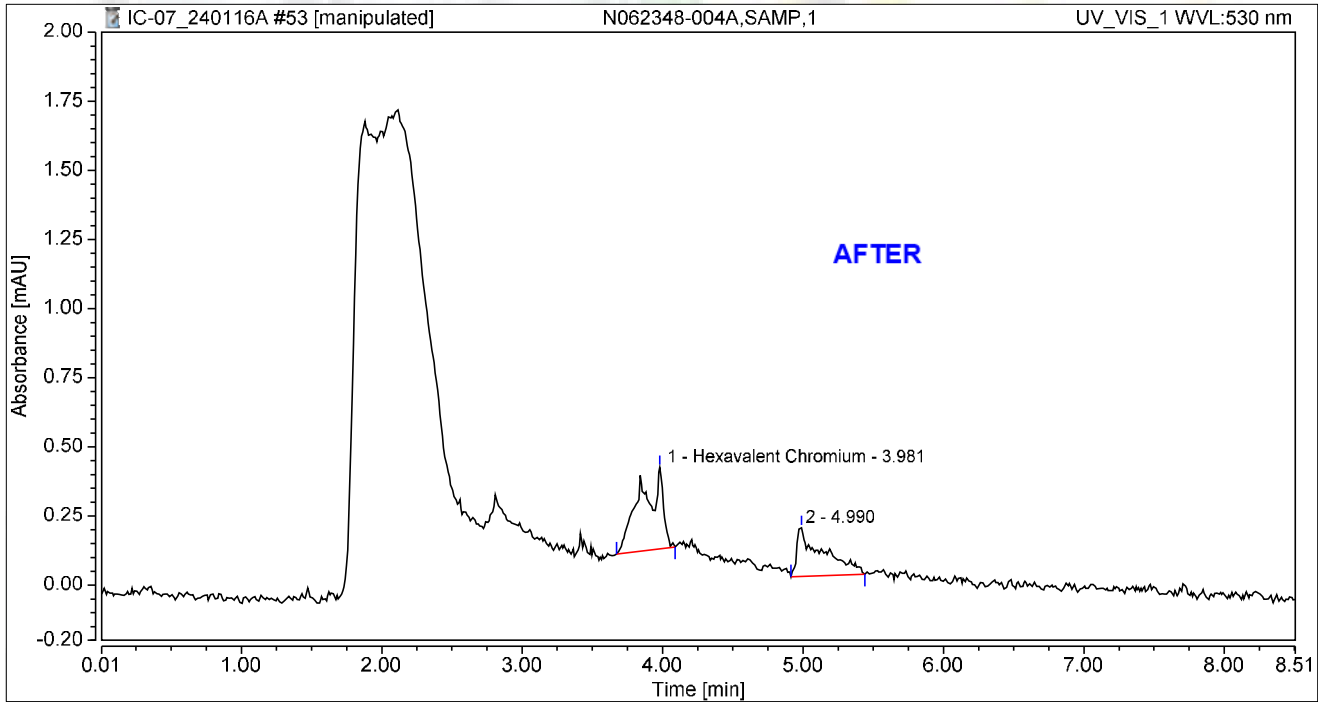
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.339	2.182	100.00	100.00	1.6315
Total:			0.339	2.182	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.981	0.054	0.294	58.89	62.64	0.2574
2		4.990	0.037	0.175	41.11	37.36	n.a.
Total:			0.091	0.469	100.00	100.00	

Reviewed by:

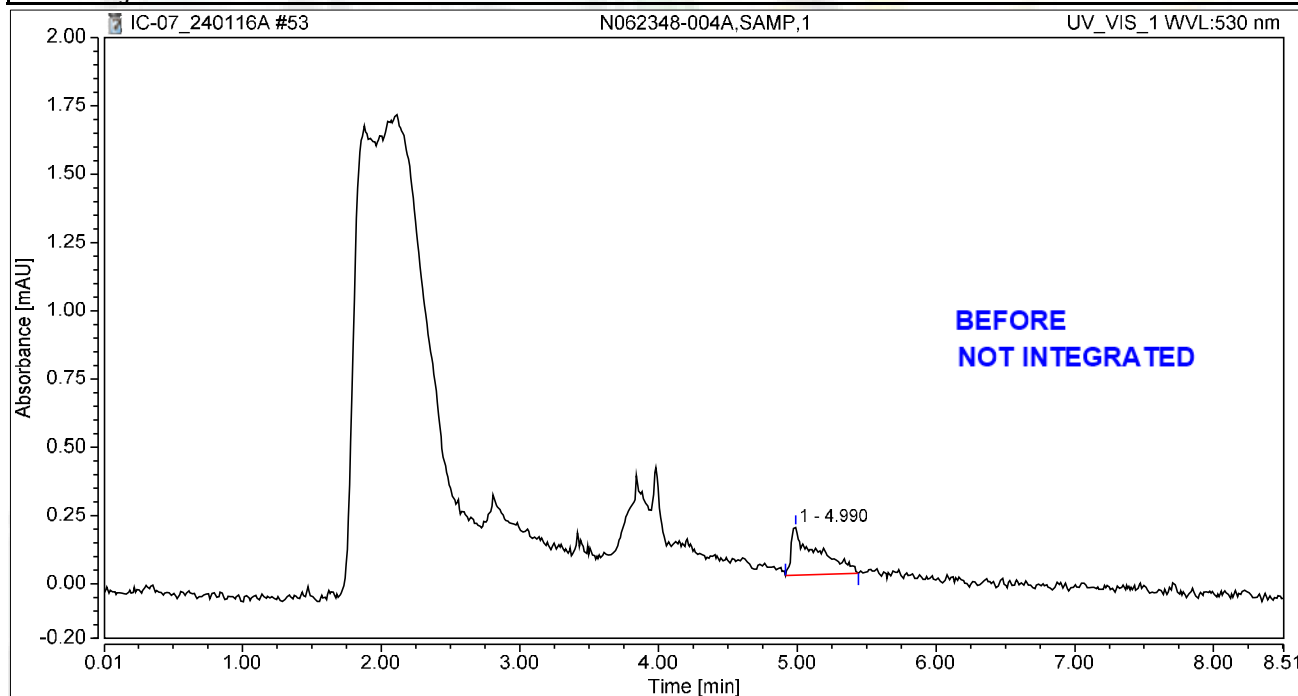
JRB 1/17/2024

Chromatogram and Results

Injection Details

Injection Name:	N062348-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:39	Sample Weight:	1.0000

Chromatogram



Integration Results

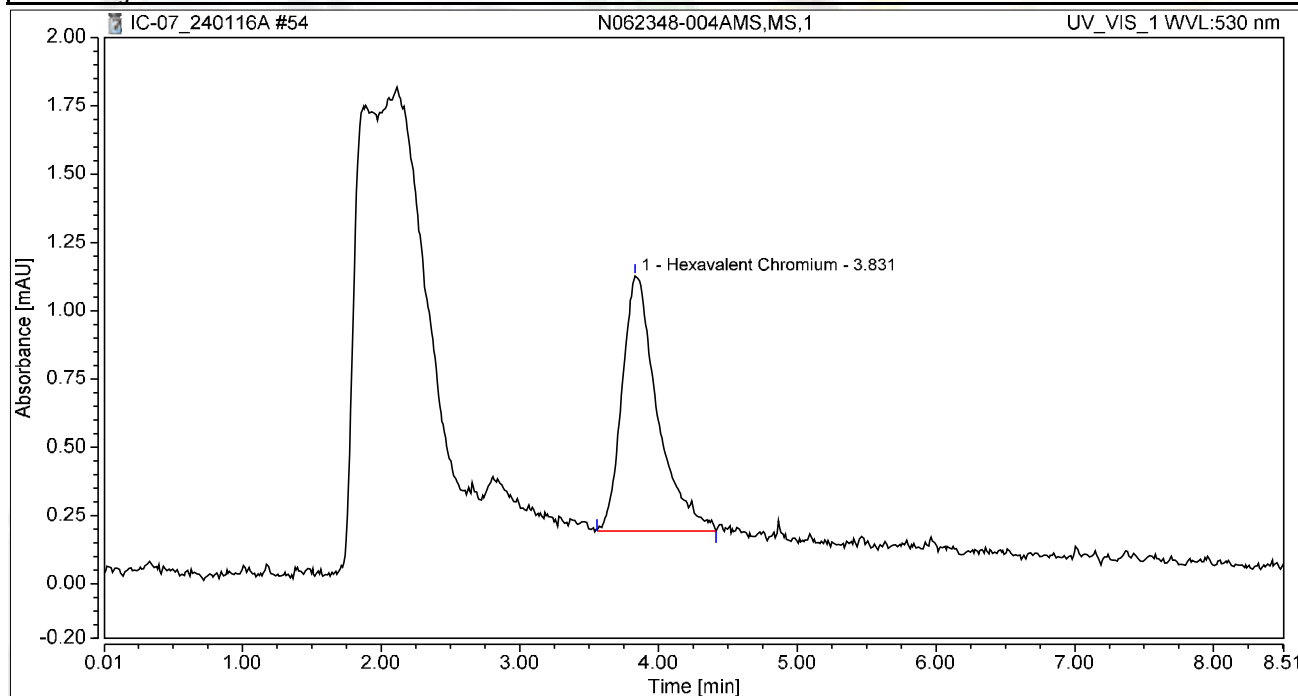
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		4.990	0.037	0.175	100.00	100.00	n.a.
Total:			0.037	0.175	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:49	Sample Weight:	1.0000

Chromatogram



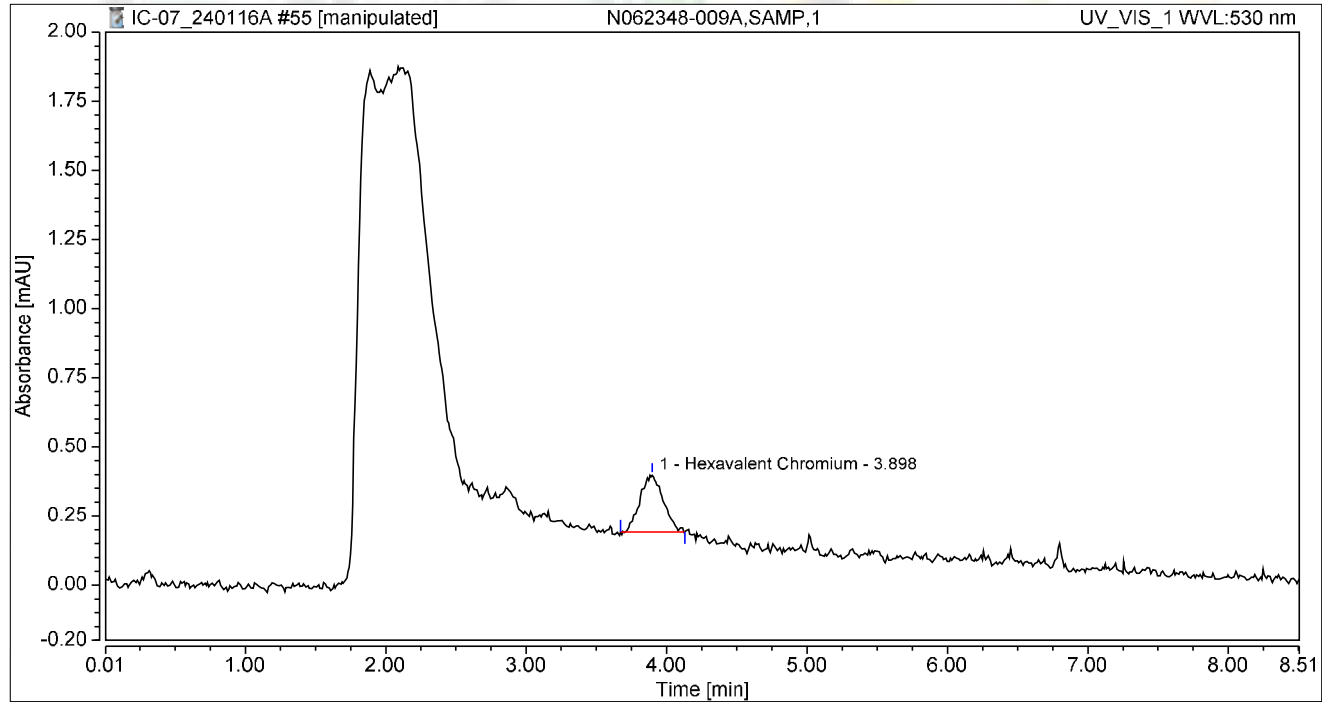
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.276	0.933	100.00	100.00	1.3253
Total:			0.276	0.933	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062348-009A,SAMP,1	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	16/Jan/24 17:58	Sample Weight: 1.0000

Chromatogram



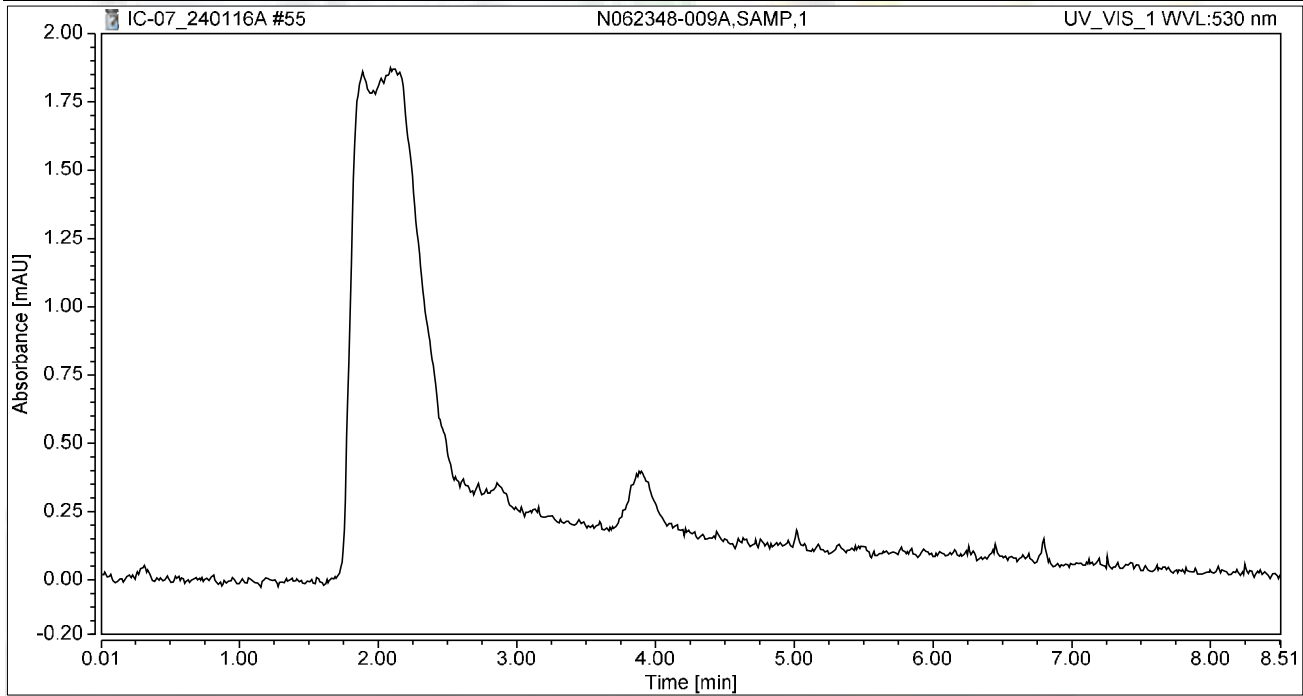
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	0.039	0.205	100.00	100.00	0.1873
Total:			0.039	0.205	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 17:58	Sample Weight:	1.0000

Chromatogram



Integration Results

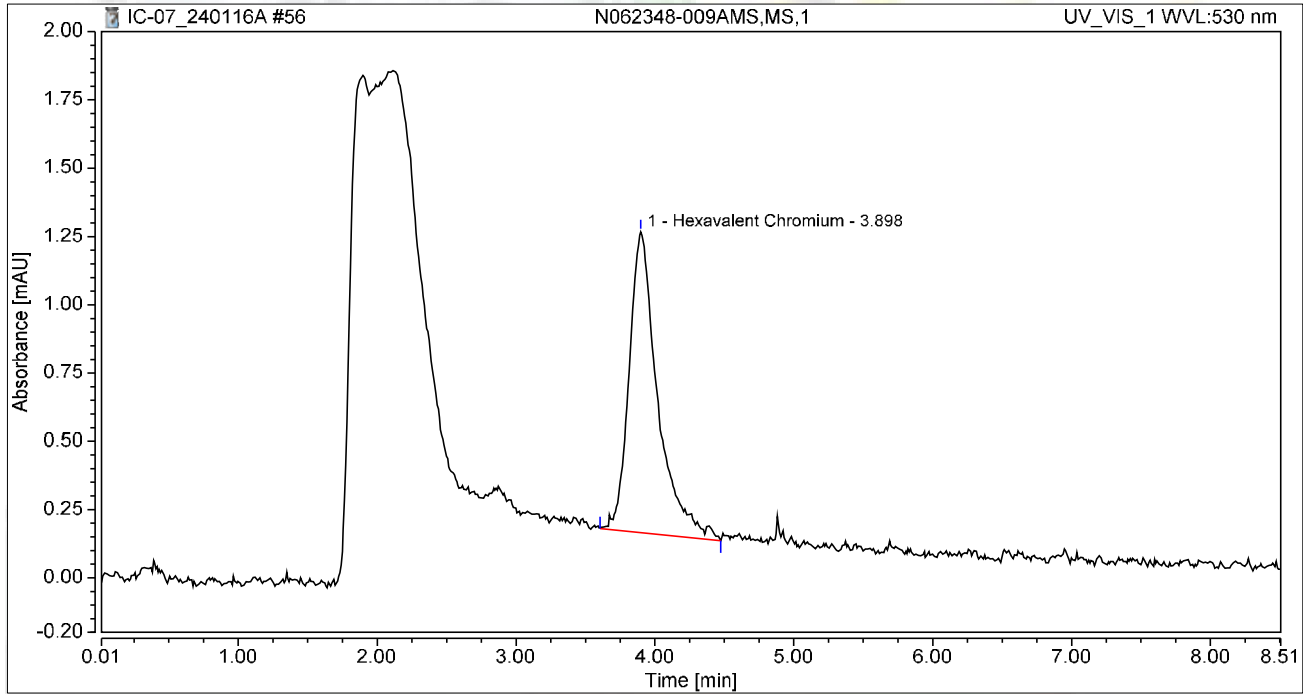
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-009AMS,MS,1	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

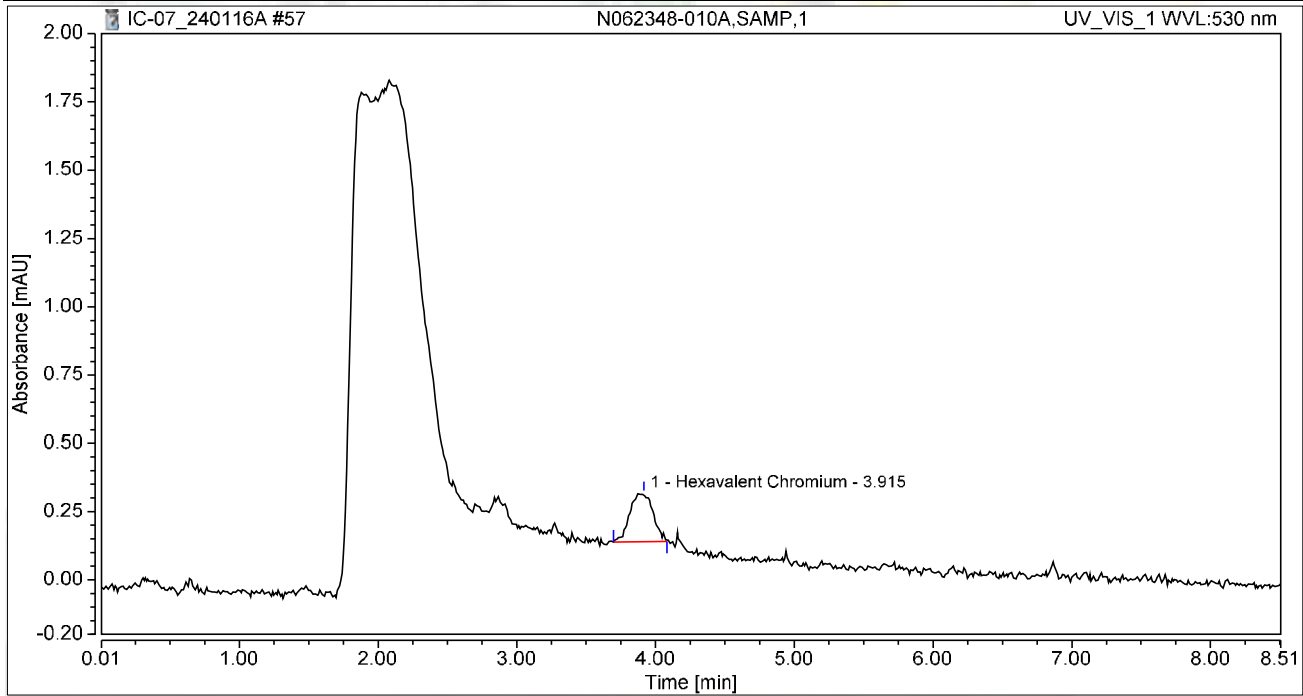
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	0.263	1.101	100.00	100.00	1.2629
Total:			0.263	1.101	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:17	Sample Weight:	1.0000

Chromatogram



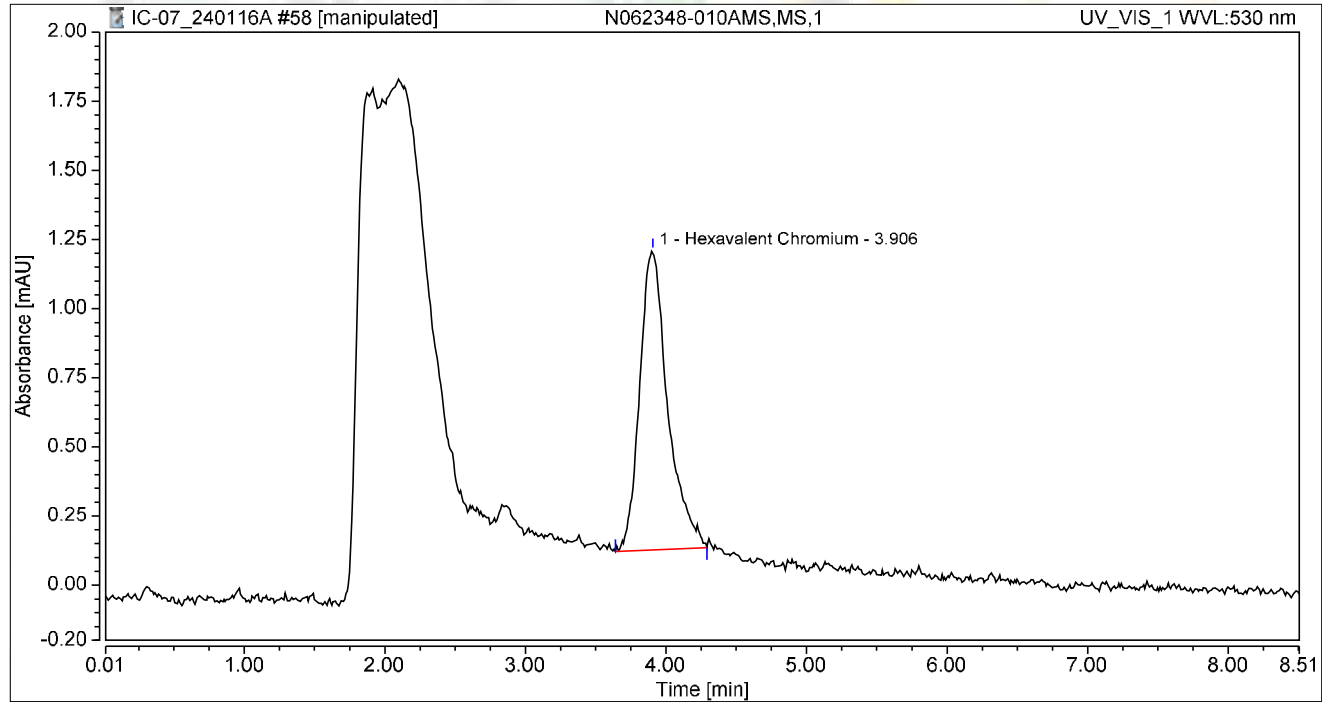
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.915	0.034	0.177	100.00	100.00	0.1631
Total:			0.034	0.177	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062348-010AMS,MS,1	Run Time (min): 8.49
Vial Number:	15	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	16/Jan/24 18:27	Sample Weight: 1.0000

Chromatogram



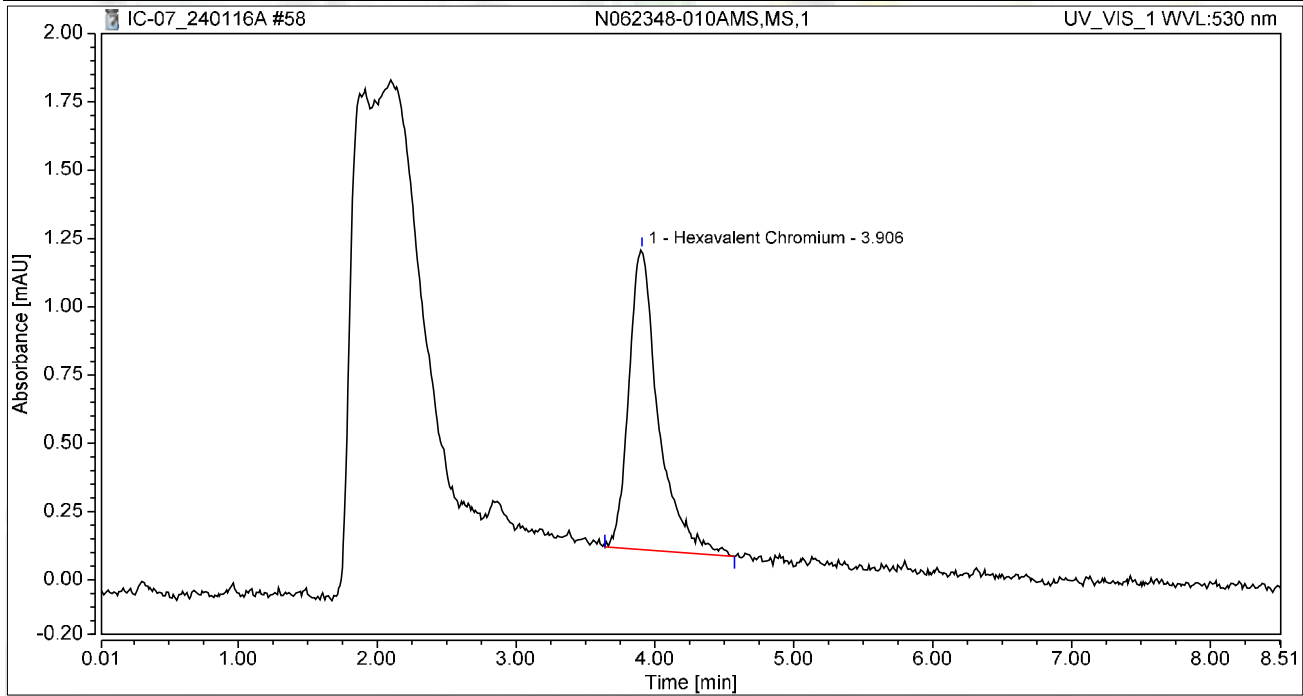
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.906	0.251	1.083	100.00	100.00	1.2050
Total:			0.251	1.083	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

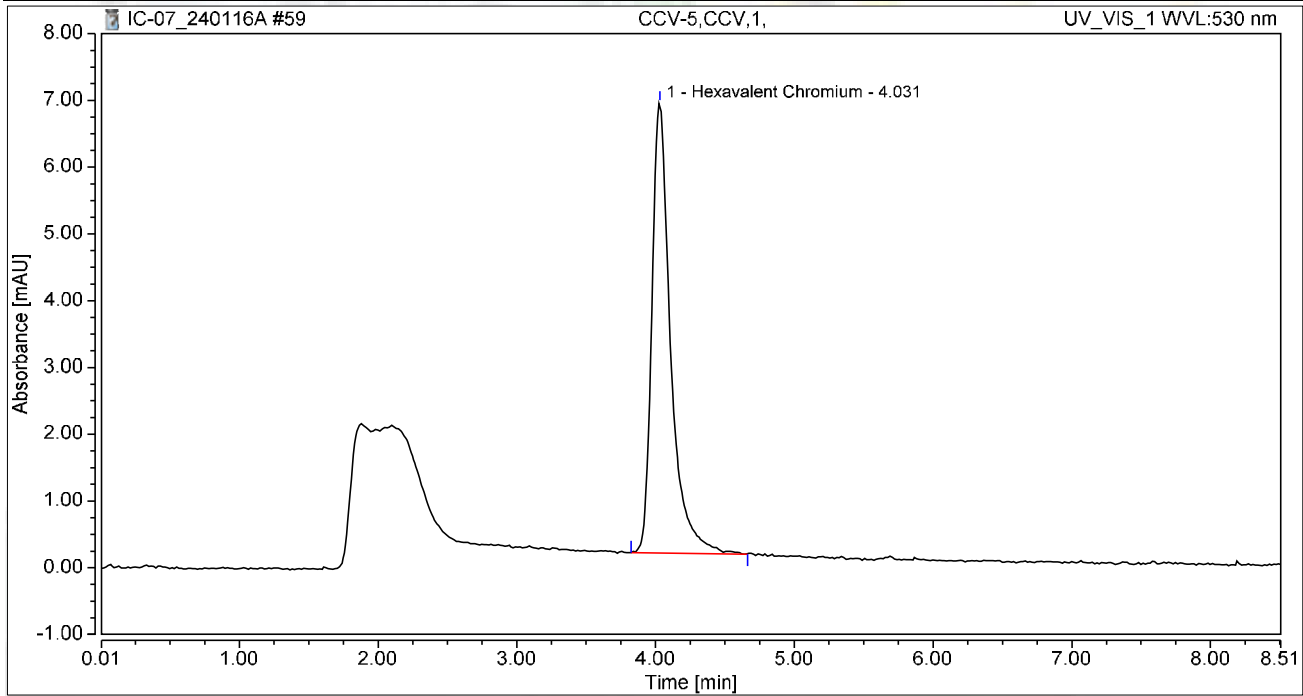
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.906	0.272	1.100	100.00	100.00	1.3070
Total:			0.272	1.100	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

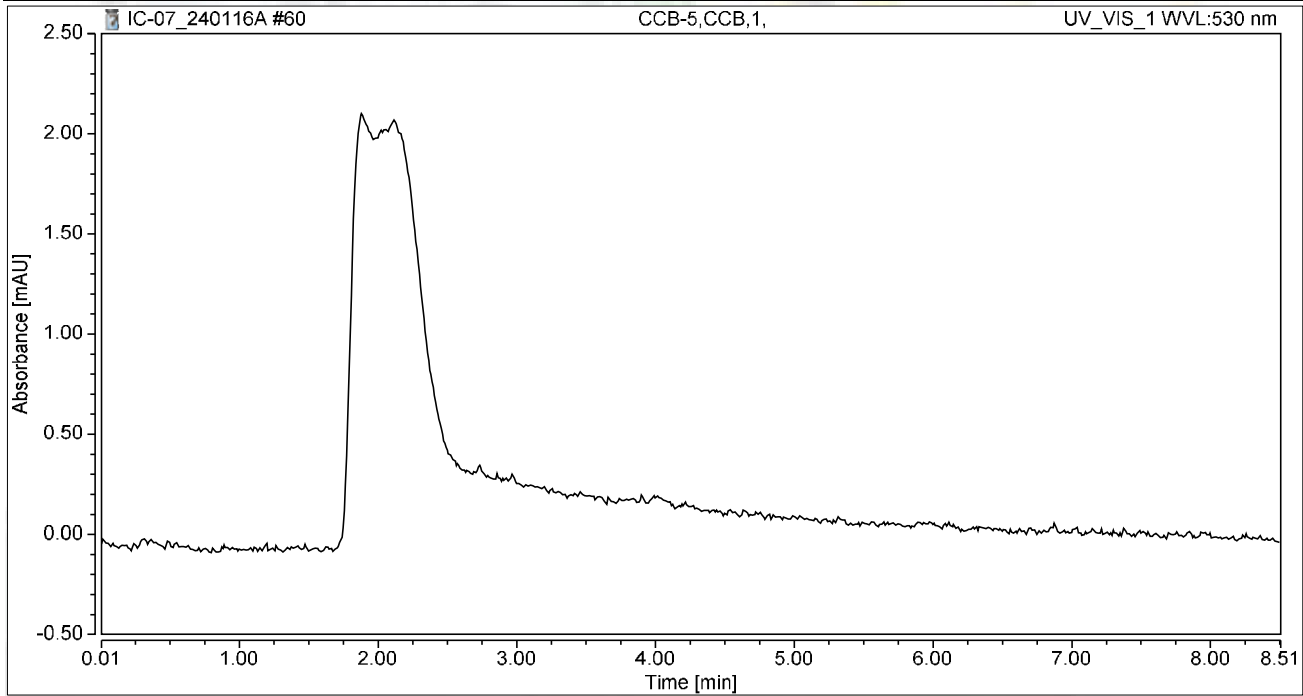
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.057	6.741	100.00	100.00	5.0796
Total:			1.057	6.741	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

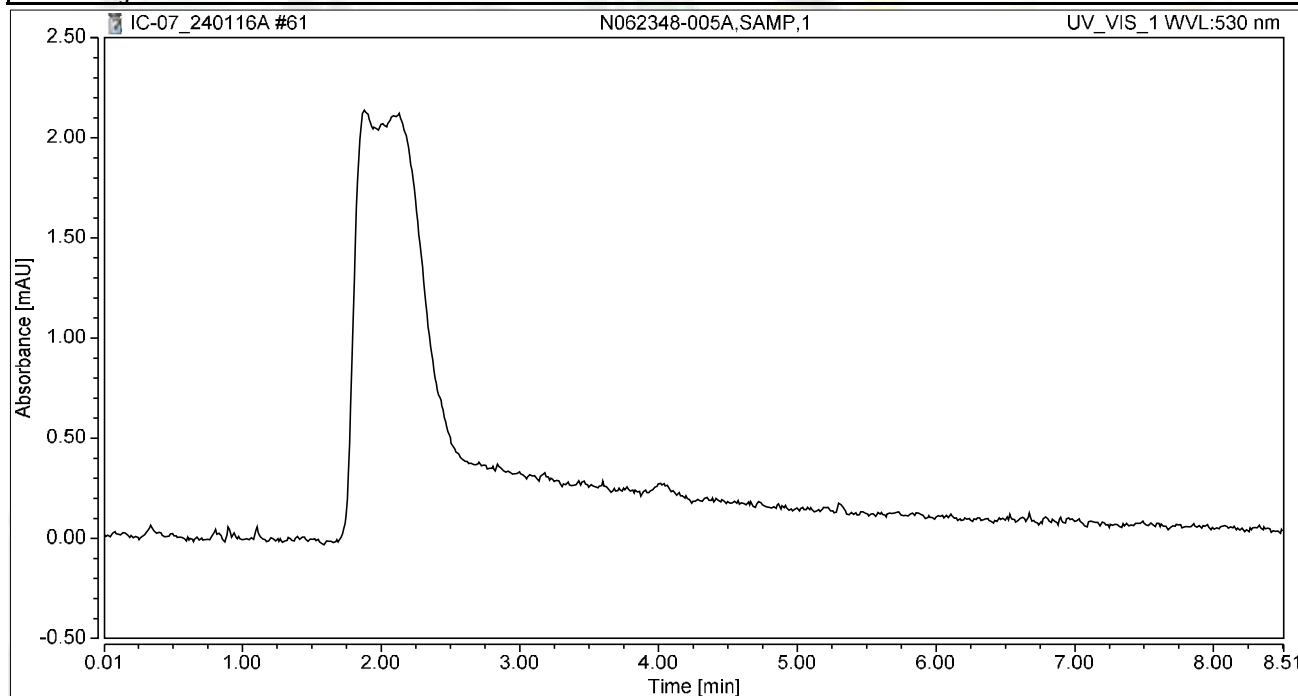
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

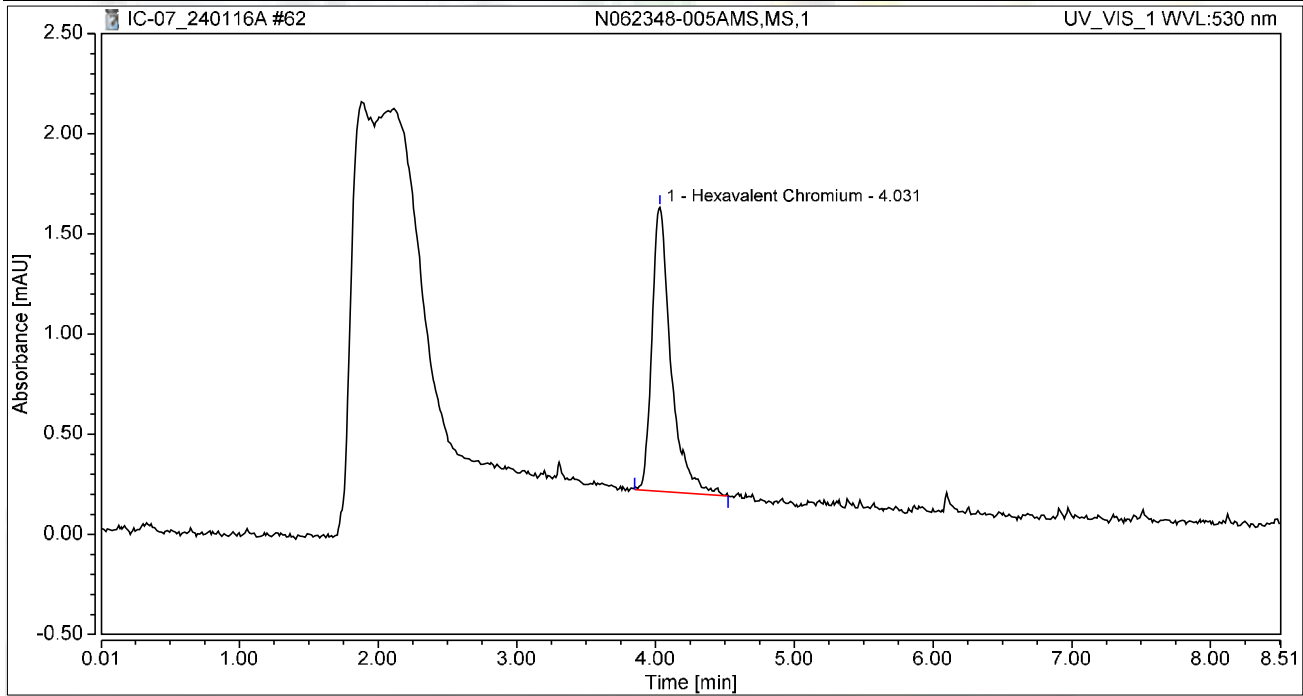
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 19:04	Sample Weight:	1.0000

Chromatogram



Integration Results

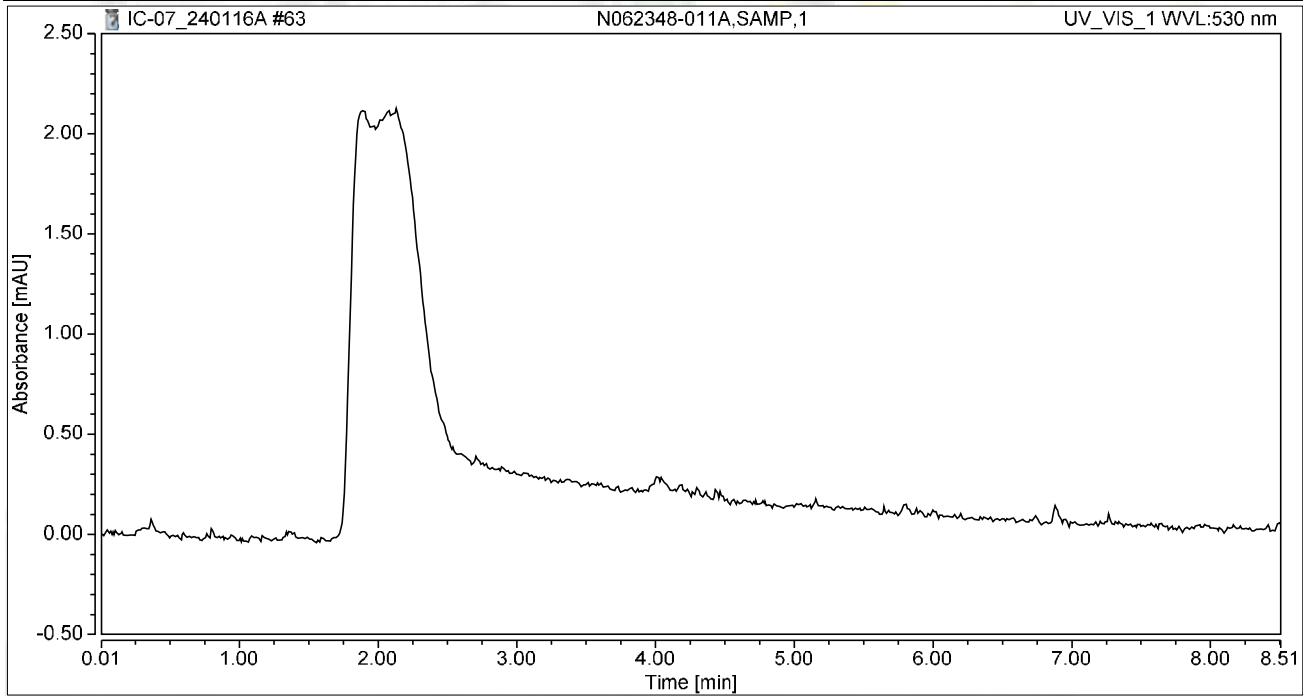
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.224	1.418	100.00	100.00	1.0789
Total:			0.224	1.418	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

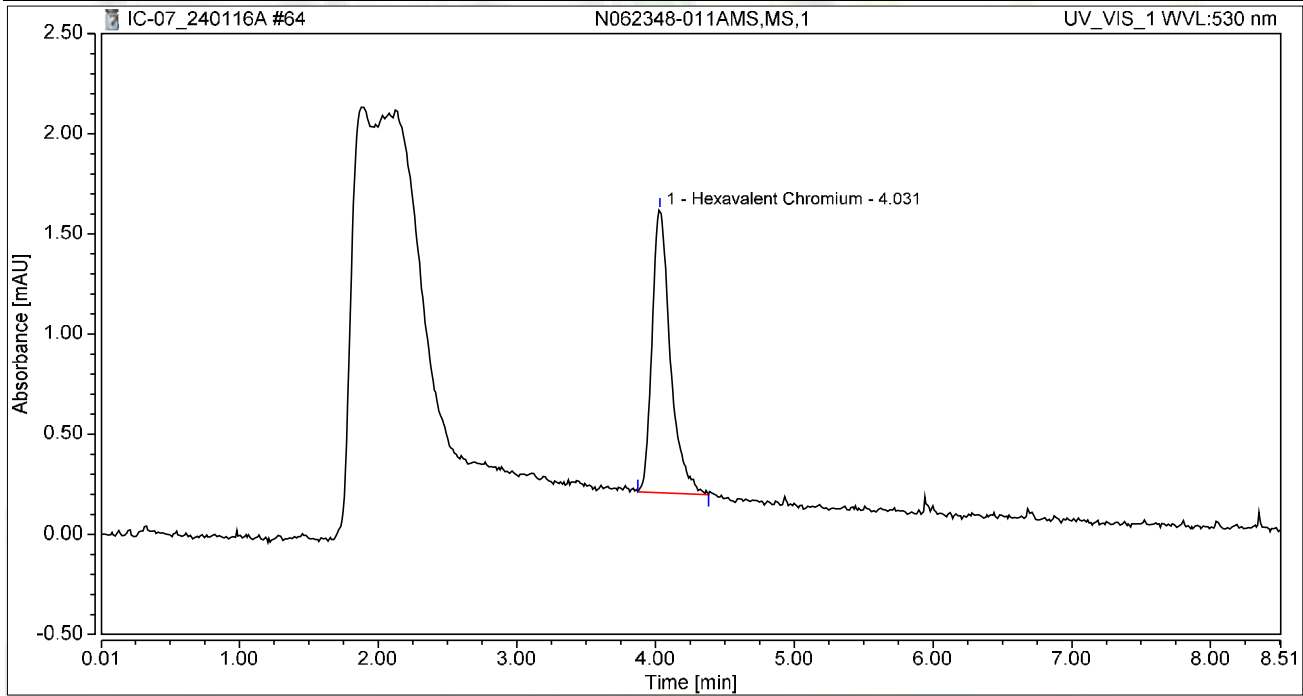
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062348-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 19:23	Sample Weight:	1.0000

Chromatogram



Integration Results

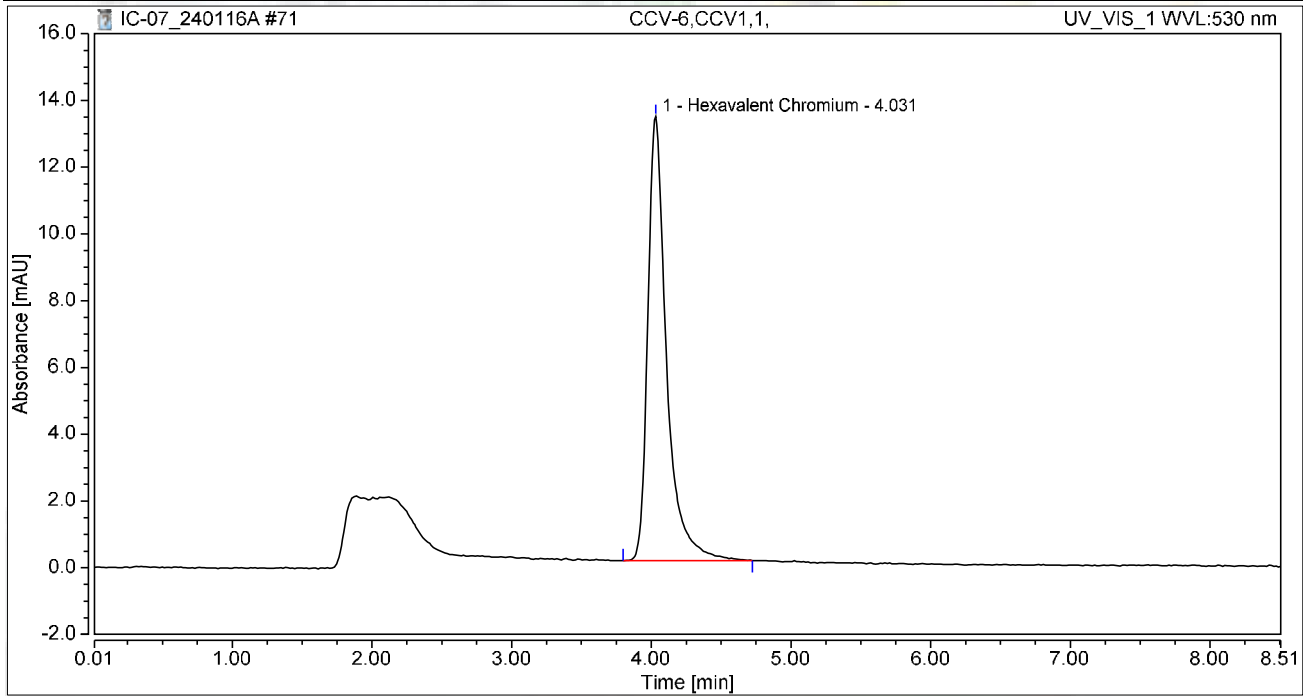
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.216	1.411	100.00	100.00	1.0378
Total:			0.216	1.411	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 20:30	Sample Weight:	1.0000

Chromatogram



Integration Results

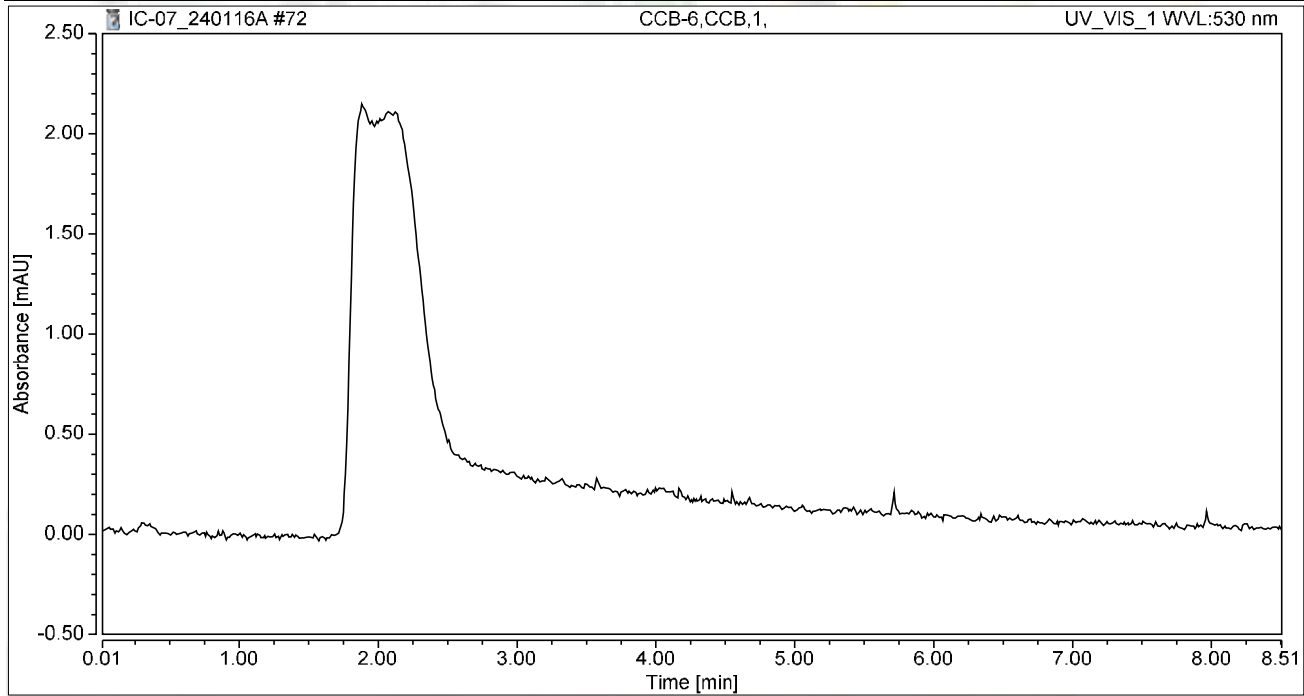
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.074	13.304	100.00	100.00	9.9670
Total:			2.074	13.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	231229_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	16/Jan/24 20:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

JRB 1/17/2024

EPA 300.0



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R180333
 ASSET # N062348 / N062351

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 1/12/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Detection of Sulfate in MB/CCB5/3 was >1/2PQL. However, N062348 samples were >5X the CCB detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
 2nd Level Reviewer *Nancy* 01/26/2024

Date: —
 Date: —

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062348-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.7714 * 20 \\ &= 15.428\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 15$$

Reviewed by:

d/Rocha 1/30/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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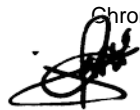
Sequence: IC-08_240102A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
12	N062100-001A,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062054-002A,SAMP,5	Unknown	14	1000.0	Anions Default2	EPA 300_0_240102	Finished
14	N062054-001A,SAMP,5	Unknown	15	1000.0	Anions Default2	EPA 300_0_240102	Finished
15	N062054-003A,SAMP,5	Unknown	16	1000.0	Anions Default2	EPA 300_0_240102	Finished
16	N062054-004A,SAMP,5	Unknown	17	1000.0	Anions Default2	EPA 300_0_240102	Finished
17	N062054-005A,SAMP,5	Unknown	18	1000.0	Anions Default2	EPA 300_0_240102	Finished
18	N062054-006A,SAMP,5	Unknown	19	1000.0	Anions Default2	EPA 300_0_240102	Finished
19	BLANK	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
22	N062100-001ADUP,DUP,10	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062100-001AMS,MS,10	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062100-001AMSD,MSD,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062054-002AMS,MS,5	Unknown	26	1000.0	Anions Default2	EPA 300_0_240102	Finished
26	N062054-002AMSD,MSD,5	Unknown	27	1000.0	Anions Default2	EPA 300_0_240102	Finished
27	N062054-001ADUP,DUP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240102	Finished
28	BLANK	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished
29	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
30	CCV-2,CCV,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
31	CCB-2,CCB,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:



Sequence: IC-08_240102A
Operator: IC-05

Page 2 of 2
Printed: 1/10/2024 6:39:39 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 31

Created: 1/2/2024 11:27:44 AM by IC-05
Last Update: 1/3/2024 12:52:04 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	ICV,ICV,1	1/2/2024 1:57:20 PM	ICV, IWST-231228F
9	ICB,ICB,1	1/2/2024 2:12:38 PM	CCB
10	MB-H2O,MBLK,1	1/2/2024 2:27:56 PM	MB
11	LCS-H2O,LCS,1	1/2/2024 2:43:13 PM	LCS, IWST-231228F
12	N062100-001A,SAMP,10	1/2/2024 3:09:01 PM	SAMP,1>10mL,
13	N062054-002A,SAMP,5	1/2/2024 3:46:10 PM	SAMP,2>10mL,
14	N062054-001A,SAMP,5	1/2/2024 4:08:28 PM	SAMP,2>10mL,
15	N062054-003A,SAMP,5	1/2/2024 4:30:47 PM	SAMP,2>10mL,
16	N062054-004A,SAMP,5	1/2/2024 4:53:05 PM	SAMP,2>10mL,
17	N062054-005A,SAMP,5	1/2/2024 5:15:23 PM	SAMP,2>10mL,
18	N062054-006A,SAMP,5	1/2/2024 5:37:42 PM	SAMP,2>10mL,
19	BLANK	1/2/2024 5:59:59 PM	BLANK
20	CCV-1,CCV,1	1/2/2024 6:15:17 PM	CCV, IWST-231228E
21	CCB-1,CCB,1	1/2/2024 6:30:36 PM	CCB
22	N062100-001ADUP,DUP,10	1/2/2024 6:45:54 PM	DUP,1>10mL,
23	N062100-001AMS,MS,10	1/2/2024 7:01:13 PM	MS,1>10mL,
24	N062100-001AMSD,MSD,10	1/2/2024 7:16:31 PM	MSD,1>10mL,
25	N062054-002AMS,MS,5	1/2/2024 7:31:49 PM	MS,2>10mL,
26	N062054-002AMSD,MSD,5	1/2/2024 7:54:07 PM	MSD,2>10mL,
27	N062054-001ADUP,DUP,5	1/2/2024 8:16:26 PM	DUP,2>10mL,
28	BLANK	1/2/2024 8:38:44 PM	BLANK
29	BLANK	1/2/2024 8:54:02 PM	BLANK
30	CCV-2,CCV,1	1/2/2024 9:09:19 PM	CCV, IWST-231228E
31	CCB-2,CCB,1	1/2/2024 9:24:38 PM	CCB

Sequence: IC-08_240112A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 52

Created: 1/11/2024 12:15:40 PM by IC-05
Last Update: 1/12/2024 2:50:26 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240102	Finished
3	Std - 1	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240102	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240102	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240102	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240102	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240102	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240102	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240102	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240102	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240102	Finished
13	N062348-001B,SAMP,20	Unknown	6	1000.0	Anions Default	EPA 300_0_240102	Finished
14	N062348-002B,SAMP,10	Unknown	7	1000.0	Anions Default	EPA 300_0_240102	Finished
15	N062348-003B,SAMP,10	Unknown	8	1000.0	Anions Default	EPA 300_0_240102	Finished
16	N062348-004B,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_240102	Finished
17	N062348-007B,SAMP,400	Unknown	10	1000.0	Anions Default	EPA 300_0_240102	Finished
18	N062348-008B,SAMP,400	Unknown	11	1000.0	Anions Default	EPA 300_0_240102	Finished
19	N062348-009B,SAMP,10	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
20	N062348-010B,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
21	CCV-2,CCV,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240102	Finished
22	CCB-2,CCB,1	Unknown	13	1000.0	Anions Default	EPA 300_0_240102	Finished
23	N062348-002BMS,MS,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
24	N062348-002BMSD,MSD,10	Unknown	14	1000.0	Anions Default	EPA 300_0_240102	Finished
25	N062348-003BDUP,DUP,10	Unknown	15	1000.0	Anions Default	EPA 300_0_240102	Finished
26	N062348-003BMS,MS,10	Unknown	16	1000.0	Anions Default	EPA 300_0_240102	Finished
27	N062351-004B,SAMP,10	Unknown	17	1000.0	Anions Default	EPA 300_0_240102	Finished
28	N062351-005B,SAMP,5	Unknown	18	1000.0	Anions Default	EPA 300_0_240102	Finished
29	N062351-006B,SAMP,10	Unknown	19	1000.0	Anions Default	EPA 300_0_240102	Finished
30	N062351-007B,SAMP,10	Unknown	20	1000.0	Anions Default	EPA 300_0_240102	Finished
31	N062351-008B,SAMP,10	Unknown	21	1000.0	Anions Default	EPA 300_0_240102	Finished
32	N062351-009B,SAMP,2	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
33	CCV-3,CCV,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240102	Finished
34	CCB-3,CCB,1	Unknown	23	1000.0	Anions Default	EPA 300_0_240102	Finished
35	N062351-010B,SAMP,2	Unknown	24	1000.0	Anions Default	EPA 300_0_240102	Finished
36	N062351-011B,SAMP,2	Unknown	25	1000.0	Anions Default	EPA 300_0_240102	Finished
37	N062351-012B,SAMP,2	Unknown	26	1000.0	Anions Default	EPA 300_0_240102	Finished
38	N062351-013B,SAMP,2	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
39	N062351-014B,SAMP,5	Unknown	27	1000.0	Anions Default	EPA 300_0_240102	Finished
40	N062348-003B,SAMP,100	Unknown	28	1000.0	Anions Default	EPA 300_0_240102	Finished
41	N062348-003BMS,MS,100	Unknown	29	1000.0	Anions Default	EPA 300_0_240102	Finished

Processed by:

reviewed by: *Mamy* 1/22/2024

Sequence: IC-08_240112A
Operator: IC-05

Page 2 of 4
Printed: 1/12/2024 9:03:46 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 52

Created: 1/11/2024 12:15:40 PM by IC-05
Last Update: 1/12/2024 2:50:26 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/2/2024 11:28:23 AM	BLANK
2	Std - 0	1/2/2024 11:43:40 AM	IBLANK
3	Std - 1	1/2/2024 12:40:50 PM	STD-LOW
4	Std - 2	1/2/2024 12:56:08 PM	STD
5	Std - 3	1/2/2024 1:11:26 PM	STD
6	Std - 4	1/2/2024 1:26:44 PM	STD
7	Std - 5	1/2/2024 1:42:02 PM	STD-HIGH
8	BLANK	1/12/2024 7:42:01 AM	BLANK
9	CCV-1,CCV,1	1/12/2024 7:57:19 AM	CCV, IWST-240105A
10	CCB-1,CCB,1	1/12/2024 8:12:37 AM	CCB
11	MB-H2O,MBLK,1	1/12/2024 8:27:55 AM	MB
12	LCS-H2O,LCS,1	1/12/2024 8:43:12 AM	LCS, IWST-240105B
13	N062348-001B,SAMP,20	1/12/2024 10:49:44 AM	SAMP,0.5>10mL,
14	N062348-002B,SAMP,10	1/12/2024 11:05:02 AM	SAMP,1>10mL,
15	N062348-003B,SAMP,10	1/12/2024 11:20:20 AM	SAMP,1>10mL,
16	N062348-004B,SAMP,10	1/12/2024 11:35:38 AM	SAMP,1>10mL,
17	N062348-007B,SAMP,400	1/12/2024 11:50:56 AM	SAMP,0.025>10mL,
18	N062348-008B,SAMP,400	1/12/2024 12:06:14 PM	SAMP,0.025>10mL,
19	N062348-009B,SAMP,10	1/12/2024 12:21:32 PM	SAMP,1>10mL,
20	N062348-010B,SAMP,10	1/12/2024 12:36:50 PM	SAMP,1>10mL,
21	CCV-2,CCV,1	1/12/2024 12:52:09 PM	CCV, IWST-240105A
22	CCB-2,CCB,1	1/12/2024 1:07:27 PM	CCB
23	N062348-002BMS,MS,10	1/12/2024 1:22:45 PM	MS,1>10mL,
24	N062348-002BMSD,MSD,10	1/12/2024 1:38:03 PM	MSD,1>10mL,
25	N062348-003BDUP,DUP,10	1/12/2024 1:53:21 PM	DUP,1>10mL,
26	N062348-003BMS,MS,10	1/12/2024 2:08:40 PM	MS,1>10mL,
27	N062351-004B,SAMP,10	1/12/2024 2:23:58 PM	SAMP,1>10mL,
28	N062351-005B,SAMP,5	1/12/2024 2:39:16 PM	SAMP,2>10mL,
29	N062351-006B,SAMP,10	1/12/2024 2:54:34 PM	SAMP,1>10mL,
30	N062351-007B,SAMP,10	1/12/2024 3:09:51 PM	SAMP,1>10mL,
31	N062351-008B,SAMP,10	1/12/2024 3:25:09 PM	SAMP,1>10mL,
32	N062351-009B,SAMP,2	1/12/2024 3:40:27 PM	SAMP,5>10mL,
33	CCV-3,CCV,1	1/12/2024 3:55:45 PM	CCV, IWST-240105A
34	CCB-3,CCB,1	1/12/2024 4:11:04 PM	CCB
35	N062351-010B,SAMP,2	1/12/2024 4:26:21 PM	SAMP,5>10mL,
36	N062351-011B,SAMP,2	1/12/2024 4:41:39 PM	SAMP,5>10mL,
37	N062351-012B,SAMP,2	1/12/2024 4:56:58 PM	SAMP,5>10mL,
38	N062351-013B,SAMP,2	1/12/2024 5:12:17 PM	SAMP,5>10mL,
39	N062351-014B,SAMP,5	1/12/2024 5:27:34 PM	SAMP,2>10mL,
40	N062348-003B,SAMP,100	1/12/2024 5:42:52 PM	SAMP,0.1>10mL,
41	N062348-003BMS,MS,100	1/12/2024 5:58:11 PM	MS,0.1>10mL,

Sequence: IC-08_240112A
Operator: IC-05

Page 3 of 4
Printed: 1/12/2024 9:03:46 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 52

Created: 1/11/2024 12:15:40 PM by IC-05
Last Update: 1/12/2024 2:50:26 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062348-003BMSD,MSD,100	Unknown	30	1000.0	Anions Default	EPA 300_0_240102	Finished
43	N062348-001B,SAMP,100	Unknown	31	1000.0	Anions Default	EPA 300_0_240102	Finished
44	N062348-001BDUP,DUP,100	Unknown	32	1000.0	Anions Default	EPA 300_0_240102	Finished
45	CCV-4,CCV,1	Unknown	33	1000.0	Anions Default	EPA 300_0_240102	Finished
46	CCB-4,CCB,1	Unknown	34	1000.0	Anions Default	EPA 300_0_240102	Finished
47	N062348-002B,SAMP,100	Unknown	35	1000.0	Anions Default	EPA 300_0_240102	Finished
48	N062348-004B,SAMP,100	Unknown	36	1000.0	Anions Default	EPA 300_0_240102	Finished
49	N062348-009B,SAMP,100	Unknown	37	1000.0	Anions Default	EPA 300_0_240102	Finished
50	N062348-010B,SAMP,100	Unknown	38	1000.0	Anions Default	EPA 300_0_240102	Finished
51	CCV-5,CCV,1	Unknown	39	1000.0	Anions Default	EPA 300_0_240102	Finished
52	CCB-5,CCB,1	Unknown	40	1000.0	Anions Default	EPA 300_0_240102	Finished

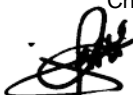
Sequence: IC-08_240112A
Operator: IC-05

Page 4 of 4
Printed: 1/12/2024 9:03:46 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 52

Created: 1/11/2024 12:15:40 PM by IC-05
Last Update: 1/12/2024 2:50:26 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062348-003BMSD,MSD,100	1/12/2024 6:13:29 PM	MSD,0.1>10mL,
43	N062348-001B,SAMP,100	1/12/2024 6:28:47 PM	SAMP,0.1>10mL,
44	N062348-001BDUP,DUP,100	1/12/2024 6:44:05 PM	DUP,0.1>10mL,
45	CCV-4,CCV,1	1/12/2024 6:59:23 PM	CCV, IWST-240105A
46	CCB-4,CCB,1	1/12/2024 7:14:41 PM	CCB
47	N062348-002B,SAMP,100	1/12/2024 7:29:59 PM	SAMP,0.1>10mL,
48	N062348-004B,SAMP,100	1/12/2024 7:45:16 PM	SAMP,0.1>10mL,
49	N062348-009B,SAMP,100	1/12/2024 8:00:34 PM	SAMP,0.1>10mL,
50	N062348-010B,SAMP,100	1/12/2024 8:15:53 PM	SAMP,0.1>10mL,
51	CCV-5,CCV,1	1/12/2024 8:31:11 PM	CCV, IWST-240105A
52	CCB-5,CCB,1	1/12/2024 8:46:29 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0136	0.0830	0.1675	0.4225	0.8784	1.000

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/2/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in ug/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0337	0.2030	0.4063	1.0376	2.1764	0.999

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ICV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5644571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.975	0.50	4.000	0	99.4	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644573						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.038	0.50	4.000	0	101	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.976	0.50	4.000	0	99.4	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644579						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.976	0.50	4.000	0	99.4	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5644586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.993	0.50	4.000	0	99.8	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644592							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.001	0.50	4.000	0	100	90	110				

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ICV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/2/2024	SeqNo: 5619721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.258	0.050	1.250	0	101	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.236	0.050	1.250	0	98.9	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.232	0.050	1.250	0	98.5	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.236	0.050	1.250	0	98.9	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.227	0.050	1.250	0	98.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCV-5	SampType: CCV	TestCode: 300WLLNO3P Units: mg/L				Prep Date:			RunNo: 180333		
Client ID: CCV	Batch ID: R180333	TestNo: EPA 300.0				Analysis Date: 1/12/2024			SeqNo: 5619756		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.239	0.050	1.250	0	99.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ICB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/2/2024	SeqNo: 5644572							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644578							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644580							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644587							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 180333							
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0	Analysis Date: 1/12/2024	SeqNo: 5644593							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: ICB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out

- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: CCB-5	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 180333						
Client ID: CCB	Batch ID: R180333	TestNo: EPA 300.0		Analysis Date: 1/12/2024	SeqNo: 5619757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.880	
CCV-1	Nitrate 6.974	
CCV-2	Nitrate 6.964	
CCV-3	Nitrate 6.934	
CCV-4	Nitrate 7.014	
CCV-5	Nitrate 6.953	

Average 6.968

Applied RT Window 6.768 - 7.168

MB-R180333_NO3	Nitrate	N.A.	N.A.
LCS-R180333_NO3	Nitrate	6.910	PASS
N062348-001B	Nitrate	6.984	PASS
N062348-002B	Nitrate	6.943	PASS
N062348-003B	Nitrate	6.994	PASS
N062348-004B	Nitrate	N.A.	N.A.
N062348-007B ^C	Nitrate	6.930	PASS
N062348-008B	Nitrate	6.997	PASS
N062348-009B	Nitrate	7.007	PASS
N062348-010B	Nitrate	6.964	PASS
N062348-002BMS	Nitrate	6.997	PASS
N062348-002BMSD	Nitrate	6.987	PASS
N062348-003BDUP	Nitrate	7.010	PASS
N062348-003BMS	Nitrate	7.007	PASS

Reviewed by:

d/Recha 1/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 1/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.610	
CCV-1	Sulfate 10.614	
CCV-2	Sulfate 10.594	
CCV-3	Sulfate 10.587	
CCV-4	Sulfate 10.670	
CCV-5	Sulfate 10.613	

Average 10.616

Applied RT Window 10.416 - 10.816

MB-R180333_SO4	Sulfate	10.787	PASS
LCS-R180333_SO4	Sulfate	10.550	PASS
N062348-003B	Sulfate	10.577	PASS
N062348-003BMS	Sulfate	10.560	PASS
N062348-003BMSD	Sulfate	10.573	PASS
N062348-001B	Sulfate	10.594	PASS
N062348-001BDUP	Sulfate	10.470	PASS
N062348-002B	Sulfate	10.610	PASS
N062348-004B	Sulfate	10.564	PASS
N062348-009B	Sulfate	10.614	PASS
N062348-010B	Sulfate	10.560	PASS

Reviewed by:

dRoche 1/30/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 106013
ASSET #: N062348

Instrument ID: ICP-02³
Analyst: DBJ

Date Analyzed: 1/13/2024

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented		X			X	
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 01262024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062348-004C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.40107 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 401.07$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 400$$

Reviewed by:

M. Rocha 2/5/2024

% RSD SUMMARY



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RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	1.16	15	PASS
Standard1	ICAL	1	Fe	0.02	2.03	15	PASS
Standard2	ICAL	1	Fe	0.05	1.79	15	PASS
Standard3	ICAL	1	Fe	2	0.42	15	PASS
Standard4	ICAL	1	Fe	5	0.31	15	PASS
Standard5	ICAL	1	Fe	7.5	0.38	15	PASS
Standard6	ICAL	1	Fe	10	0.12	15	PASS
Standard7	ICAL	1	Fe	20	0.11	15	PASS
ICV	ICV	1	Fe	10.14	0.71	15	PASS
ICB	ICB	1	Fe	0	61.32	15	<PQL
LLICV1	CCV1	1	Fe	0.02	2.71	20	PASS
ICSA1	ICSA	1	Fe	172.44	0.09	15	PASS
ICSAB1	ICSAB	1	Fe	171.89	0.08	15	PASS
ICSA1	ICSA	1	Fe	172.17	0.07	15	PASS
ICSAB1	ICSAB	1	Fe	172.89	0.06	15	PASS
RINSE	RINSE	1	Fe	0.04	21.22	15	NR!
MB-106013	MBLK	1	Fe	0	28.64	15	<PQL
LCS1-106013	LCS	1	Fe	0.11	1.26	15	PASS
N062346-001B	SAMP	1	Fe	0.01	20.49	15	<PQL
N062346-002B	SAMP	1	Fe	-0.01	29.59	15	<PQL
N062348-001C	SAMP	1	Fe	-0.01	3.47	15	PASS
N062348-001C	SAMP	5	Fe	0	28.2	15	<PQL
N062348-001C-PS	PS	1	Fe	0.09	1.85	15	PASS
N062348-001C-MS	MS	1	Fe	0.09	1.33	15	PASS
N062348-001C-MSD	MSD	1	Fe	0.09	2.17	15	PASS
CCV1	CCV	1	Fe	10.36	0.02	15	PASS
CCB1	CCB	1	Fe	0	37.87	15	<PQL
N062348-002C	SAMP	1	Fe	0	43.42	15	<PQL
N062348-003C	SAMP	1	Fe	0.02	9.3	15	PASS
N062348-004C	SAMP	1	Fe	0.4	0.95	15	PASS
N062348-009C	SAMP	1	Fe	0.02	2.92	15	PASS
N062348-010C	SAMP	1	Fe	0.02	10.6	15	PASS
CCV2	CCV	1	Fe	10.64	0.77	15	PASS
CCB2	CCB	1	Fe	0	37.24	15	<PQL
CCV3	CCV	1	Fe	10.87	0.13	15	PASS
CCB3	CCB	1	Fe	0.01	2.32	15	PASS
ICSA2	ICSA	1	Fe	186.35	0.09	15	PASS
ICSAB2	ICSAB	1	Fe	186.77	0.25	15	PASS
RINSE	RINSE	1	Fe	0.04	38.72	15	NR!
CCV4	CCV	1	Fe	10.95	0.59	15	PASS
CCB4	CCB	1	Fe	0.01	9.41	15	PASS
CCV5	CCV	1	Fe	11.87	0.52	15	PASS

RSD SUMMARY: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCB5	CCB	1	Fe	0.01	3.88	15	PASS
CCV6	CCV	1	Fe	12.16	0.12	15	PASS
CCB6	CCB	1	Fe	0.01	3.46	15	PASS
ICSA3	ICSA	1	Fe	212.06	0.13	15	PASS
ICSAB3	ICSAB	1	Fe	213.38	0.43	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240113A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	01/13/2024	12:19:33 PM
2	Standard1	ICAL	1	01/13/2024	12:23:15 PM
3	Standard2	ICAL	1	01/13/2024	12:26:58 PM
4	Standard3	ICAL	1	01/13/2024	12:30:44 PM
5	Standard4	ICAL	1	01/13/2024	12:33:59 PM
6	Standard5	ICAL	1	01/13/2024	12:38:16 PM
7	Standard6	ICAL	1	01/13/2024	12:42:30 PM
8	Standard7	ICAL	1	01/13/2024	12:46:14 PM
310	ICV	ICV	1	01/13/2024	12:50:32 PM
1	ICB	ICB	1	01/13/2024	12:54:52 PM
2	LLICV1	CCV1	1	01/13/2024	12:58:36 PM
9	ICSA1	ICSA	1	01/13/2024	01:02:19 PM
10	ICSAB1	ICSAB	1	01/13/2024	01:07:37 PM
9	ICSA1	ICSA	1	01/13/2024	01:13:06 PM
10	ICSAB1	ICSAB	1	01/13/2024	01:18:23 PM
299	RINSE	RINSE	1	01/13/2024	01:23:41 PM
140	MB-106013	MBLK	1	01/13/2024	01:30:06 PM
141	LCS1-106013	LCS	1	01/13/2024	01:37:01 PM
142	N062346-001B	SAMP	1	01/13/2024	01:41:48 PM
143	N062346-002B	SAMP	1	01/13/2024	01:47:17 PM
144	N062348-001C	SAMP	1	01/13/2024	01:51:34 PM
145	N062348-001C	SAMP	5	01/13/2024	01:56:56 PM
146	N062348-001C-PS	PS	1	01/13/2024	02:00:44 PM
147	N062348-001C-MS	MS	1	01/13/2024	02:06:14 PM
148	N062348-001C-MSD	MSD	1	01/13/2024	02:11:37 PM
7	CCV1	CCV	1	01/13/2024	02:16:37 PM
1	CCB1	CCB	1	01/13/2024	02:20:24 PM
149	N062348-002C	SAMP	1	01/13/2024	02:24:09 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
150	N062348-003C	SAMP	1	01/13/2024	02:29:08 PM
151	N062348-004C	SAMP	1	01/13/2024	02:33:08 PM
152	N062348-009C	SAMP	1	01/13/2024	02:38:08 PM
153	N062348-010C	SAMP	1	01/13/2024	02:43:38 PM
154	MB-106014	MBLK	1	01/13/2024	02:49:09 PM
155	LCS-106014	LCS	1	01/13/2024	02:52:55 PM
156	N062351-001B	SAMP	1	01/13/2024	02:57:14 PM
157	N062351-001B	SAMP	5	01/13/2024	03:02:46 PM
158	N062351-001B-PS	PS	1	01/13/2024	03:06:34 PM
7	CCV2	CCV	1	01/13/2024	03:11:35 PM
1	CCB2	CCB	1	01/13/2024	03:15:52 PM
159	N062351-001B-MS	MS	1	01/13/2024	03:19:35 PM
160	N062351-001B-MSD	MSD	1	01/13/2024	03:24:36 PM
161	N062351-002B	SAMP	1	01/13/2024	03:29:36 PM
162	N062351-003B	SAMP	1	01/13/2024	03:34:28 PM
163	N062351-004D	SAMP	1	01/13/2024	03:39:52 PM
164	N062351-005D	SAMP	1	01/13/2024	03:45:14 PM
165	N062351-006D	SAMP	1	01/13/2024	03:50:36 PM
166	N062351-007D	SAMP	1	01/13/2024	03:56:06 PM
167	N062351-008D	SAMP	1	01/13/2024	04:01:29 PM
168	N062351-009D	SAMP	1	01/13/2024	04:06:51 PM
7	CCV3	CCV	1	01/13/2024	04:11:13 PM
1	CCB3	CCB	1	01/13/2024	04:14:58 PM
9	ICSA2	ICSA	1	01/13/2024	04:18:42 PM
10	ICSAB2	ICSAB	1	01/13/2024	04:23:59 PM
300	RINSE	RINSE	1	01/13/2024	04:29:17 PM
169	N062351-010D	SAMP	1	01/13/2024	04:33:07 PM
170	N062351-011D	SAMP	1	01/13/2024	04:38:30 PM
171	N062351-012D	SAMP	1	01/13/2024	04:42:50 PM
172	N062351-013D	SAMP	1	01/13/2024	04:47:10 PM
173	N062351-014D	SAMP	1	01/13/2024	04:50:58 PM
174	MB-106020	MBLK	1	01/13/2024	04:55:20 PM
175	LCS-106020	LCS	1	01/13/2024	04:59:08 PM
176	N062350-003B	SAMP	1	01/13/2024	05:03:58 PM
177	N062350-004D	SAMP	1	01/13/2024	05:09:21 PM
7	CCV4	CCV	1	01/13/2024	05:14:44 PM
1	CCB4	CCB	1	01/13/2024	05:19:00 PM
178	N062350-005D	SAMP	1	01/13/2024	05:22:44 PM
179	N062350-006D	SAMP	1	01/13/2024	05:28:15 PM
180	N062350-008D	SAMP	1	01/13/2024	05:33:46 PM
181	N062350-009D	SAMP	1	01/13/2024	05:39:09 PM
182	N062350-010E	SAMP	1	01/13/2024	05:44:31 PM
183	N062350-011E	SAMP	1	01/13/2024	05:48:52 PM
184	N062350-012E	SAMP	1	01/13/2024	05:53:12 PM
185	N062350-013E	SAMP	1	01/13/2024	05:57:34 PM
186	N062350-014E	SAMP	1	01/13/2024	06:01:57 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
187	N062350-015E	SAMP	1	01/13/2024	06:06:59 PM
7	CCV5	CCV	1	01/13/2024	06:12:01 PM
1	CCB5	CCB	1	01/13/2024	06:16:17 PM
188	N062350-018D	SAMP	1	01/13/2024	06:20:01 PM
189	N062350-018D	SAMP	5	01/13/2024	06:25:02 PM
190	N062350-018D-PS	PS	1	01/13/2024	06:29:22 PM
191	N062350-018DMS	MS	1	01/13/2024	06:34:24 PM
192	N062350-018DMSD	MSD	1	01/13/2024	06:39:26 PM
193	N062350-019F	SAMP	1	01/13/2024	06:44:27 PM
194	N062350-020F	SAMP	1	01/13/2024	06:49:28 PM
7	CCV6	CCV	1	01/13/2024	06:54:30 PM
1	CCB6	CCB	1	01/13/2024	06:58:46 PM
9	ICSA3	ICSA	1	01/13/2024	07:02:29 PM
10	ICSAB3	ICSAB	1	01/13/2024	07:07:47 PM
7	CCV7	CCV	1	01/13/2024	07:46:24 PM
1	CCB7	CCB	1	01/13/2024	07:50:08 PM
174	MB-106020	MBLK	1	01/13/2024	07:53:25 PM
175	LCS-106020	LCS	1	01/13/2024	07:57:12 PM
176	N062350-003B	SAMP	1	01/13/2024	08:01:59 PM
177	N062350-004D	SAMP	1	01/13/2024	08:07:29 PM
178	N062350-005D	SAMP	1	01/13/2024	08:12:59 PM
179	N062350-006D	SAMP	1	01/13/2024	08:18:30 PM
180	N062350-008D	SAMP	1	01/13/2024	08:23:59 PM
181	N062350-009D	SAMP	1	01/13/2024	08:28:51 PM
182	N062350-010E	SAMP	1	01/13/2024	08:34:13 PM
183	N062350-011E	SAMP	1	01/13/2024	08:38:34 PM

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: 1/12/2024 4:00:00 PM

Reviewed/ Date: M Rocha 2/5/2024

Page: 1 of 2

Prep End Date: 1/12/2024 8:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106013 Prep Code:3010_W DISS

Technician: Diane Jetajobe

mL / mL 95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS1-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
LCS2-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-106013	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C-MS1	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C-MSD1	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium		0.05
MSST-231025F	Potassium		0.05
MSST-231130A	Strontium		0.125
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 4:00:00 PM

Reviewed/ Date: Mecha 2/5/2024

Page: 2 of 2

Prep End Date: 1/12/2024 8:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 106013 Prep Code: 3010_W DISS

Technician: Diane Jetajobe

mL / mL

95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062348-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15254	HYDROCHLORIC ACID
15401	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium		0.05
MSST-231025F	Potassium		0.05
MSST-231130A	Strontium		0.125
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240113A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	01/13/2024	12:19:33 PM	Fe	273.952	540	0.00	mg/L	
Standard1	01/13/2024	12:23:15 PM	Fe	273.952	374	0.02	mg/L	
Standard2	01/13/2024	12:26:58 PM	Fe	273.952	926	0.05	mg/L	
Standard3	01/13/2024	12:30:44 PM	Fe	273.952	34514	2.0	mg/L	
Standard4	01/13/2024	12:33:59 PM	Fe	273.952	85609	5.0	mg/L	
Standard5	01/13/2024	12:38:16 PM	Fe	273.952	128926	7.5	mg/L	
Standard6	01/13/2024	12:42:30 PM	Fe	273.952	171403	10.0	mg/L	
Standard7	01/13/2024	12:46:14 PM	Fe	273.952	340259	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621554						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10140.323	20	10000	0	101	90	110				
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ZZZZZZ	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621556						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	19.970	20	20.00	0	99.8	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10363.373	20	10000	0	104	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10637.135	20	10000	0	106	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCV	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10868.794	20	10000	0	109	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT BLANKS



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621555						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.548258 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.145 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.370 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: CCB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.138 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
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- E Value above quantitation range
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- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	520733.591	50	500000	0	104	80	120				
Calcium	443870.703	500	500000	0	88.8	80	120				
Iron	172170.323	20	200000	0	86.1	80	120				
Magnesium	459230.113	100	500000	0	91.8	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	515244.953	50	500000	0	103	80	120				
Calcium	446361.032	500	500000	0	89.3	80	120				
Iron	172886.146	20	200000	0	86.4	80	120				
Magnesium	457929.657	100	500000	0	91.6	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	490250.244	50	500000	0	98.1	80	120				
Calcium	490150.358	500	500000	0	98.0	80	120				
Iron	186351.809	20	200000	0	93.2	80	120				
Magnesium	494953.872	100	500000	0	99.0	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSA	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	493116.676	50	500000	0	98.6	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ICSAB	Batch ID: R180362	TestNo: EPA 6010B		Analysis Date: 1/13/2024	SeqNo: 5621597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	491592.436	500	500000	0	98.3	80	120				
Iron	186772.592	20	200000	0	93.4	80	120				
Magnesium	493141.661	100	500000	0	98.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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NEVADA
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INTERNAL STANDARD: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	100.7	65-125	PASS
Standard2	ICAL	1	0.99	99.06	65-125	PASS
Standard3	ICAL	1	1	99.83	65-125	PASS
Standard4	ICAL	1	0.99	98.97	65-125	PASS
Standard5	ICAL	1	0.98	97.98	65-125	PASS
Standard6	ICAL	1	0.98	97.65	65-125	PASS
Standard7	ICAL	1	0.96	95.52	65-125	PASS
ICV	ICV	1	0.97	96.95	65-125	PASS
ICB	ICB	1	1.01	100.66	65-125	PASS
LLICV1	CCV1	1	1	100.04	65-125	PASS
ICSA1	ICSA	1	0.84	84.14	65-125	PASS
ICSAB1	ICSAB	1	0.84	84.14	65-125	PASS
ICSA1	ICSA	1	0.84	84.12	65-125	PASS
ICSAB1	ICSAB	1	0.84	83.98	65-125	PASS
RINSE	RINSE	1	1.07	106.74	65-125	PASS
MB-106013	MBLK	1	0.99	99.48	65-125	PASS
LCS1-106013	LCS	1	0.94	94.48	65-125	PASS
N062346-001B	SAMP	1	0.86	86.47	65-125	PASS
N062346-002B	SAMP	1	0.94	93.65	65-125	PASS
N062348-001C	SAMP	1	0.85	85	65-125	PASS
N062348-001C	SAMP	5	0.96	96.03	65-125	PASS
N062348-001C-PS	PS	1	0.88	88.49	65-125	PASS
N062348-001C-MS	MS	1	0.92	92	65-125	PASS
N062348-001C-MSD	MSD	1	0.91	91.41	65-125	PASS
CCV1	CCV	1	1.01	101.26	65-125	PASS
CCB1	CCB	1	1.05	104.75	65-125	PASS
N062348-002C	SAMP	1	0.89	88.65	65-125	PASS
N062348-003C	SAMP	1	0.81	81.03	65-125	PASS
N062348-004C	SAMP	1	0.87	87.39	65-125	PASS
N062348-009C	SAMP	1	0.9	89.98	65-125	PASS
N062348-010C	SAMP	1	0.91	91.37	65-125	PASS
CCV2	CCV	1	1.04	104.13	65-125	PASS
CCB2	CCB	1	1.09	109.02	65-125	PASS
CCV3	CCV	1	1	100.3	65-125	PASS
CCB3	CCB	1	1.03	103.06	65-125	PASS
ICSA2	ICSA	1	0.88	87.61	65-125	PASS
ICSAB2	ICSAB	1	0.87	87.38	65-125	PASS
RINSE	RINSE	1	1.33	133.14	65-125	NR!
CCV4	CCV	1	0.99	98.73	65-125	PASS
CCB4	CCB	1	1.01	100.85	65-125	PASS

INTERNAL STANDARD: 240113A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCV5	CCV	1	0.98	98.34	65-125	PASS
CCB5	CCB	1	1	100.22	65-125	PASS
CCV6	CCV	1	0.93	93.47	65-125	PASS
CCB6	CCB	1	0.96	95.93	65-125	PASS
ICSA3	ICSA	1	0.83	83.28	65-125	PASS
ICSAB3	ICSAB	1	0.84	83.67	65-125	PASS
CCV7	CCV	1	0.96	96.01	65-125	PASS
CCB7	CCB	1	0.98	98.34	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062348
Test Method: EPA 6010B
Analysis Date: 1/13/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106013

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062348-001C DT 5x	Iron	Fe	µg/L	0	NA	0		10

Reviewed by:

d/Recha 2/5/2024

Note: NA - Not Applicable

02/01/24 22:51

DT_EPA 6010B_N062348_106013

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062348
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N062348-001C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 180362						
Client ID: ZZZZZZ	Batch ID: 106013	TestNo: EPA 6010B EPA 3010A	Analysis Date: 1/13/2024	SeqNo: 5621567							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	92.728	20	100.0	0	92.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



ASSET LABORATORIES
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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucão / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 106016
ASSET #: N062348

Instrument ID: ICPMS-03
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 % RSD of As in LLICV failed. However, % rec passed criteria
 % RSD of As in N062348-002C failed. For re run
 Mn is OLR in N062348-004C. For dilution
 Cr is OLR in N062348-006B/007B/008B. For dilution

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 1/26/2024

Date: -
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 106016
ASSET #: N062348

Instrument ID: ICPMS-03
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 1/15/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run for N062248-002C
Mn and Cr dilution

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 1/19/2024

Date:
Date:

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062348-001C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 31.4513 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 31.4513$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 31$$

Reviewed by:

 2/18/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	25.648	15	<PQL	0.07	16.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.52	3.609	15	PASS	0.43	4.607	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	1.673	15	PASS	4.68	1.065	15	PASS
Std4-10/100 ppb	ICAL	1	9.53	2.225	15	PASS	9.56	0.903	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.75	1.428	15	PASS	19.68	0.76	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.91	0.546	15	PASS	39.66	0.895	15	PASS
Std7-100/1000 ppb	ICAL	1	99.09	1.327	15	PASS	99.66	1.083	15	PASS
Std8-200/2000 ppb	ICAL	1	200.53	0.728	15	PASS	200.3	2.039	15	PASS
ICV	ICV	1	10.12	0.952	15	PASS	9.9	1.69	15	PASS
ICB	ICB	1	0.01	43.447	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.03	2.759	20	PASS	0.99	1.447	20	PASS
MLCCV	CCV	1	19.61	1.144	15	PASS	19.81	0.366	15	PASS
ICSA1	ICSA	1	0.01	39.492	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.37	1.167	15	PASS	20.15	0.717	15	PASS
CCV1	CCV	1	20.12	0.896	15	PASS	19.93	0.676	15	PASS
CCB1	CCB	1	0.01	62.255	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.89	0.649	15	PASS	19.77	1.337	15	PASS
CCB2	CCB	1	0	58.945	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.16	0.387	15	PASS	19.62	1.769	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	142.129	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.36	0.218	15	PASS	20.09	1.583	15	PASS
CCV4	CCV	1	20.04	2.097	15	PASS	19.78	1.476	15	PASS
CCB4	CCB	1	0	312.808	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.32	0.319	15	PASS	19.76	1.556	15	PASS
CCB5	CCB	1	0	808.518	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.04	0.457	15	PASS	19.71	1.821	15	PASS
CCB6	CCB	1	0.01	37.091	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	1404.133	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.55	0.625	15	PASS	20.29	2.039	15	PASS
CCV7	CCV	1	19.89	0.546	15	PASS	19.47	0.459	15	PASS
CCB7	CCB	1	0.01	47.108	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	20.27	2.039	15	PASS	19.76	1.081	15	PASS
CCB8	CCB	1	0	25.812	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	20.22	2.36	15	PASS	19.75	0.211	15	PASS
CCB9	CCB	1	0.01	82.314	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0	123.06	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.64	1.811	15	PASS	19.99	1.708	15	PASS
MB-106016	MBLK	1	0	118.571	15	<PQL	<0.000	N/A	15	<PQL
LCS-106016	LCS	1	9.84	0.673	15	PASS	9.42	1.631	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	98.83	0.444	15	PASS	17.66	2.153	15	PASS
N062346-002B	SAMP	1	29.83	1.045	15	PASS	25.62	1.114	15	PASS
N062346-002B	SAMP	5	6.5	2.394	15	PASS	5.28	0.768	15	PASS
N062346-002B-PS	PS	1	38.6	0.785	15	PASS	35.29	0.463	15	PASS
N062346-002B-MS	MS	1	39.89	0.263	15	PASS	35.22	0.579	15	PASS
N062346-002B-MSD	MSD	1	40	1.505	15	PASS	35.26	0.681	15	PASS
N062348-001C	SAMP	1	31.45	0.677	15	PASS	494.18	0.93	15	PASS
CCV10	CCV	1	20.21	1.562	15	PASS	19.63	1.453	15	PASS
CCB10	CCB	1	0.01	110.563	15	<PQL	<0.000	N/A	15	<PQL
N062348-002C	SAMP	1	33.24	1.332	15	PASS	1698.89	1.196	15	PASS
N062348-003C	SAMP	1	25.06	1.38	15	PASS	2206.44	1.193	15	PASS
N062348-004C	SAMP	1	66.95	0.646	15	PASS	0.97	3.706	15	PASS
N062348-006B	SAMP	1	30.12	1.133	15	PASS	15834.31	1.743	15	PASS
N062348-007B	SAMP	1	105.22	1.074	15	PASS	228.23	2.059	15	PASS
N062348-008B	SAMP	1	107.15	0.749	15	PASS	228.63	0.936	15	PASS
N062348-009C	SAMP	1	35.25	1.396	15	PASS	0.76	6.23	15	PASS
N062348-010C	SAMP	1	35.65	0.383	15	PASS	0.69	4.28	15	PASS
CCV11	CCV	1	20.25	0.556	15	PASS	20.04	1.303	15	PASS
CCB11	CCB	1	0.01	16.808	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0	80.329	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.66	1.354	15	PASS	20.3	0.771	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	15.956	15	<PQL	0.12	17.755	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	4.305	15	PASS	0.48	5.178	15	PASS
Std3-5/50 ppb	ICAL	1	4.92	1.387	15	PASS	4.78	3.371	15	PASS
Std4-10/100 ppb	ICAL	1	9.64	1.803	15	PASS	9.61	3.111	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	20	0.436	15	PASS	19.58	1.397	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.45	2.407	15	PASS	39.7	2.225	15	PASS
Std7-100/1000 ppb	ICAL	1	100.17	0.398	15	PASS	98.25	1.251	15	PASS
Std8-200/2000 ppb	ICAL	1	200.05	1.683	15	PASS	201	1.135	15	PASS
ICV	ICV	1	100.53	0.53	15	PASS	10.02	2.362	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.02	108.234	15	<PQL
LLICV1	LLICV	1	0.54	2.016	20	PASS	0.12	38.706	20	NR!
MLCCV	CCV	1	20.19	0.74	15	PASS	19.55	2.31	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.27	0.333	15	PASS	19.88	0.647	15	PASS
CCV1	CCV	1	19.99	0.923	15	PASS	19.3	1.384	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	156.204	15	<PQL
CCV2	CCV	1	20.2	2.21	15	PASS	19.53	3.422	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	129.706	15	<PQL
CCV3	CCV	1	19.7	1.322	15	PASS	19	0.173	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	190.311	15	<PQL
ICSAB2	ICSAB	1	20.37	1.58	15	PASS	19.58	1.984	15	PASS
CCV4	CCV	1	19.82	2.546	15	PASS	19.64	4.092	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.8	1.452	15	PASS	19.15	1.639	15	PASS
CCB5	CCB	1	0	193.726	15	<PQL	0.02	132.814	15	<PQL
CCV6	CCV	1	19.97	1.185	15	PASS	19.67	0.626	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.01	218.589	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0	841.677	15	<PQL
ICSAB3	ICSAB	1	20.49	1.784	15	PASS	19.7	1.601	15	PASS
CCV7	CCV	1	19.91	0.524	15	PASS	19.14	3.308	15	PASS
CCB7	CCB	1	0	1329.176	15	<PQL	0.01	76.426	15	<PQL
CCV8	CCV	1	19.93	0.61	15	PASS	19.7	2.769	15	PASS
CCB8	CCB	1	0	214.459	15	<PQL	0.03	40.803	15	<PQL
CCV9	CCV	1	19.87	0.848	15	PASS	19.22	1.114	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0	349.455	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.27	2.022	15	PASS	19.69	2.321	15	PASS
MB-106016	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106016	LCS	1	98.55	1.974	15	PASS	9.16	4.708	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	19.39	0.491	15	PASS	<0.000	N/A	15	<PQL
N062346-002B	SAMP	1	4.7	3.478	15	PASS	5.29	2.692	15	PASS
N062346-002B	SAMP	5	1.03	2.784	15	PASS	1.06	8.329	15	PASS
N062346-002B-PS	PS	1	96.68	0.382	15	PASS	14.51	1.034	15	PASS
N062346-002B-MS	MS	1	96.34	0.661	15	PASS	14.98	2.995	15	PASS
N062346-002B-MSD	MSD	1	96.89	1.43	15	PASS	14.55	4.584	15	PASS
N062348-001C	SAMP	1	0.89	1.355	15	PASS	1.05	11.799	15	PASS
CCV10	CCV	1	20.05	1.489	15	PASS	19.19	1.754	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0	177.035	15	<PQL
N062348-002C	SAMP	1	0.92	2.426	15	PASS	0.27	22.777	15	NR!
N062348-003C	SAMP	1	2	2.397	15	PASS	<0.000	N/A	15	<PQL
N062348-004C	SAMP	1	430.93	0.094	15	PASS	6.07	4.826	15	PASS
N062348-006B	SAMP	1	0.56	7.797	15	PASS	1.48	3.654	15	PASS
N062348-007B	SAMP	1	127.49	1.226	15	PASS	<0.000	N/A	15	<PQL
N062348-008B	SAMP	1	127.28	0.205	15	PASS	<0.000	N/A	15	<PQL
N062348-009C	SAMP	1	30.63	2.101	15	PASS	<0.000	N/A	15	<PQL
N062348-010C	SAMP	1	32.1	1.608	15	PASS	<0.000	N/A	15	<PQL
CCV11	CCV	1	20.31	2.585	15	PASS	19.25	1.215	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.03	41.607	15	<PQL
ICSA5	ICSA	1	0	29.648	15	<PQL	0	454.596	15	<PQL
ICSAB5	ICSAB	1	20.54	0.957	15	PASS	19.95	1.667	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.14	27.375	15	<PQL	0.09	14.114	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.44	16.628	15	<PQL	0.45	2.263	15	PASS
Std3-5/50 ppb	ICAL	1	4.7	1.981	15	PASS	4.61	1.178	15	PASS
Std4-10/100 ppb	ICAL	1	9.39	1.325	15	PASS	9.41	1.649	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.45	1.36	15	PASS	19.36	0.352	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.72	1.395	15	PASS	38.99	0.069	15	PASS
Std7-100/1000 ppb	ICAL	1	98.01	0.815	15	PASS	98.51	1.004	15	PASS
Std8-200/2000 ppb	ICAL	1	201.35	0.658	15	PASS	201.05	0.292	15	PASS
ICV	ICV	1	9.76	1.124	15	PASS	10.03	1.724	15	PASS
ICB	ICB	1	0.03	82.079	15	<PQL	0.09	14.316	15	PASS
LLICV1	LLICV	1	0.55	19.239	20	PASS	0.56	5.857	20	PASS
MLCCV	CCV	1	18.98	1.396	15	PASS	19.56	1.486	15	PASS
ICSA1	ICSA	1	0.02	54.789	15	<PQL	0.04	32.564	15	<PQL
ICSAB1	ICSAB	1	19.57	0.768	15	PASS	19.99	0.253	15	PASS
CCV1	CCV	1	19.62	1.197	15	PASS	19.47	0.723	15	PASS
CCB1	CCB	1	0	267.217	15	<PQL	0.03	21.783	15	<PQL
CCV2	CCV	1	18.99	0.996	15	PASS	19.34	0.668	15	PASS
CCB2	CCB	1	0.01	55.66	15	<PQL	0.02	40.727	15	<PQL
CCV3	CCV	1	19.19	3.145	15	PASS	19.67	1.363	15	PASS
CCB3	CCB	1	0.02	104.037	15	<PQL	0.03	23.006	15	<PQL
ICSA2	ICSA	1	<0.000	0	15	PASS	0.01	118.791	15	<PQL
ICSAB2	ICSAB	1	19.33	3.051	15	PASS	19.85	1.142	15	PASS
CCV4	CCV	1	19.19	2.754	15	PASS	19.45	1.221	15	PASS
CCB4	CCB	1	0	431.352	15	<PQL	0.04	27.001	15	<PQL
CCV5	CCV	1	18.75	1.567	15	PASS	19.27	1.613	15	PASS
CCB5	CCB	1	0	246.336	15	<PQL	0.03	28.835	15	<PQL
CCV6	CCV	1	19.04	1.078	15	PASS	19.03	1.139	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.03	24.797	15	<PQL
ICSA3	ICSA	1	<0.000	0	15	PASS	0.01	37.516	15	<PQL
ICSAB3	ICSAB	1	19.54	1.924	15	PASS	19.82	1.465	15	PASS
CCV7	CCV	1	18.89	1.946	15	PASS	19.36	0.935	15	PASS
CCB7	CCB	1	0	622.967	15	<PQL	0.03	15.241	15	<PQL
CCV8	CCV	1	18.64	3.894	15	PASS	19.06	1.152	15	PASS
CCB8	CCB	1	0.01	228.428	15	<PQL	0.03	20.227	15	<PQL
CCV9	CCV	1	19.02	4.52	15	PASS	19.17	2.813	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.02	23.864	15	<PQL
ICSA4	ICSA	1	0	656.722	15	<PQL	0.01	13.655	15	PASS
ICSAB4	ICSAB	1	19.3	2.781	15	PASS	19.69	0.988	15	PASS
MB-106016	MBLK	1	0.02	120.74	15	<PQL	0.03	12.873	15	PASS
LCS-106016	LCS	1	9.4	5.732	15	PASS	9.48	1.983	15	PASS

PERCENT RSD SUMMARY: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062346-001B	SAMP	1	4.51	2.206	15	PASS	30.23	0.476	15	PASS
N062346-002B	SAMP	1	1.15	3.735	15	PASS	6.98	1.959	15	PASS
N062346-002B	SAMP	5	0.22	17.583	15	<PQL	1.41	0.446	15	PASS
N062346-002B-PS	PS	1	9.9	2.169	15	PASS	16.85	0.018	15	PASS
N062346-002B-MS	MS	1	9.89	0.823	15	PASS	16.95	1.54	15	PASS
N062346-002B-MSD	MSD	1	10.08	5.198	15	PASS	16.93	2.188	15	PASS
N062348-001C	SAMP	1	12.27	5.994	15	PASS	19.04	0.88	15	PASS
CCV10	CCV	1	19.05	2.443	15	PASS	19.3	1.182	15	PASS
CCB10	CCB	1	0.01	224.888	15	<PQL	0.03	8.699	15	PASS
N062348-002C	SAMP	1	5.37	6.495	15	PASS	7.33	1.828	15	PASS
N062348-003C	SAMP	1	21.47	1.644	15	PASS	8.74	1.22	15	PASS
N062348-004C	SAMP	1	0.39	19.412	15	<PQL	50.92	1.017	15	PASS
N062348-006B	SAMP	1	12.38	4.888	15	PASS	46.57	0.755	15	PASS
N062348-007B	SAMP	1	125.49	1.215	15	PASS	18.68	0.614	15	PASS
N062348-008B	SAMP	1	129.76	1.809	15	PASS	18.83	1.017	15	PASS
N062348-009C	SAMP	1	2.35	3.761	15	PASS	25.08	0.904	15	PASS
N062348-010C	SAMP	1	2.23	10.244	15	PASS	24.56	0.609	15	PASS
CCV11	CCV	1	18.87	0.949	15	PASS	19.24	0.049	15	PASS
CCB11	CCB	1	0.01	102.101	15	<PQL	0.03	19.289	15	<PQL
ICSA5	ICSA	1	0.01	72.658	15	<PQL	0.01	87.889	15	<PQL
ICSAB5	ICSAB	1	19.49	2.433	15	PASS	19.77	0.194	15	PASS

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	9.649	15	PASS	0.11	10.55	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.46	1.031	15	PASS	0.5	4.731	15	PASS
Std3-5/50 ppb	ICAL	1	4.7	0.448	15	PASS	4.83	0.191	15	PASS
Std4-10/100 ppb	ICAL	1	9.58	2.216	15	PASS	9.58	1.302	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.66	1.007	15	PASS	19.63	1.609	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.31	1.24	15	PASS	39.45	0.316	15	PASS
Std7-100/1000 ppb	ICAL	1	99.33	1.622	15	PASS	99.5	1.715	15	PASS
Std8-200/2000 ppb	ICAL	1	200.54	0.663	15	PASS	200.42	0.553	15	PASS
ICV	ICV	1	10.04	1.856	15	PASS	100.24	1.446	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0	83.276	15	<PQL
LLICV1	LLICV	1	1.06	0.811	20	PASS	0.6	1.587	20	PASS
MLCCV	CCV	1	19.8	0.501	15	PASS	19.67	0.84	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.34	0.547	15	PASS	20.24	1.019	15	PASS
CCV1	CCV	1	20.09	0.508	15	PASS	19.62	0.781	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	20.04	1.281	15	PASS	19.56	0.937	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0	247.153	15	<PQL
ICSAB2	ICSAB	1	20.46	0.834	15	PASS	20.21	0.846	15	PASS
CCV3	CCV	1	20.18	1.132	15	PASS	19.75	0.743	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.14	0.714	15	PASS	19.9	1.985	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	160.931	15	<PQL
CCV5	CCV	1	20.13	1.07	15	PASS	20.14	0.747	15	PASS
CCB5	CCB	1	0.02	39.142	15	<PQL	0	340.316	15	<PQL
CCV6	CCV	1	20.03	2.809	15	PASS	20.05	2.478	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0	100.038	15	<PQL
ICSAB3	ICSAB	1	20.39	0.656	15	PASS	20.46	0.471	15	PASS
N062348-002C	SAMP	1	1678.94	1.212	15	PASS	0.97	4.931	15	PASS
CCV7	CCV	1	19.78	1.053	15	PASS	19.43	0.644	15	PASS
CCB7	CCB	1	0.01	91.697	15	<PQL	0	132.223	15	<PQL
N062348-002C	SAMP	1	1700.4	0.476	15	PASS	0.92	2.98	15	PASS
CCV8	CCV	1	19.57	1.483	15	PASS	19.57	0.276	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0	142.697	15	<PQL
N062348-002C	SAMP	1	1701.89	1.679	15	PASS	0.97	2.975	15	PASS
N062348-004C	SAMP	10	0.22	15.662	15	<PQL	65.85	1.62	15	PASS
N062348-006B	SAMP	100	151.32	2.201	15	PASS	0.02	29.803	15	<PQL
N062348-007B	SAMP	10	25.97	1.221	15	PASS	14.68	1.533	15	PASS

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062348-008B	SAMP	10	25.9	1.713	15	PASS	14.96	1.72	15	PASS
CCV9	CCV	1	19.57	1.818	15	PASS	19.55	1.955	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0	794.466	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.44	0.759	15	PASS	20.27	1.768	15	PASS
CCV10	CCV	1	19.76	1.049	15	PASS	19.74	1.06	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0	35.175	15	<PQL
CCV11	CCV	1	19.71	1.102	15	PASS	19.84	0.557	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV12	CCV	1	19.87	0.861	15	PASS	20.3	0.963	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	0	62.3	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.01	108.122	15	<PQL
ICSAB5	ICSAB	1	20.65	1.226	15	PASS	20.61	1.909	15	PASS

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	23.298	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.44	9.077	15	PASS
Std3-5/50 ppb	ICAL	1	4.64	4.276	15	PASS
Std4-10/100 ppb	ICAL	1	9.98	2.1	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.19	1.181	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.97	1.032	15	PASS
Std7-100/1000 ppb	ICAL	1	99.15	0.762	15	PASS
Std8-200/2000 ppb	ICAL	1	200.72	0.234	15	PASS
ICV	ICV	1	10.43	4.601	15	PASS
ICB	ICB	1	0.02	110.856	15	<PQL
LLICV1	LLICV	1	0.11	17.235	20	PASS
MLCCV	CCV	1	19.53	0.549	15	PASS
ICSA1	ICSA	1	0.01	90.623	15	<PQL
ICSAB1	ICSAB	1	20.14	1.553	15	PASS
CCV1	CCV	1	19.38	3.569	15	PASS
CCB1	CCB	1	0.01	63.373	15	<PQL
CCV2	CCV	1	19.74	1.371	15	PASS
CCB2	CCB	1	0.01	68.389	15	<PQL
ICSA2	ICSA	1	0.02	110.412	15	<PQL
ICSAB2	ICSAB	1	20.17	5.478	15	PASS
CCV3	CCV	1	19.58	3.284	15	PASS
CCB3	CCB	1	0.03	58.046	15	<PQL
CCV4	CCV	1	19.63	1.25	15	PASS
CCB4	CCB	1	0.03	49.599	15	<PQL
CCV5	CCV	1	19.21	2.12	15	PASS
CCB5	CCB	1	0.01	66.678	15	<PQL
CCV6	CCV	1	19.69	1.414	15	PASS
CCB6	CCB	1	0.04	79.427	15	<PQL
ICSA3	ICSA	1	0.01	243.68	15	<PQL
ICSAB3	ICSAB	1	19.94	2.631	15	PASS
N062348-002C	SAMP	1	0.37	35.11	15	NR!
CCV7	CCV	1	19.25	3.842	15	PASS
CCB7	CCB	1	0.03	74.547	15	<PQL
N062348-002C	SAMP	1	0.44	4.074	15	PASS
CCV8	CCV	1	18.94	1.742	15	PASS
CCB8	CCB	1	0	174.973	15	<PQL
N062348-002C	SAMP	1	0.41	32.786	15	NR!
N062348-004C	SAMP	10	1.01	10.814	15	PASS
N062348-006B	SAMP	100	0.02	39.422	15	<PQL
N062348-007B	SAMP	10	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N062348-008B	SAMP	10	<0.000	N/A	15	<PQL
CCV9	CCV	1	18.8	1.232	15	PASS
CCB9	CCB	1	0.01	48.181	15	<PQL
ICSA4	ICSA	1	0.01	89.14	15	<PQL
ICSAB4	ICSAB	1	19.76	1.448	15	PASS
CCV10	CCV	1	19.1	1.018	15	PASS
CCB10	CCB	1	0.01	48.126	15	<PQL
CCV11	CCV	1	19.01	2.945	15	PASS
CCB11	CCB	1	0.01	1.904	15	PASS
CCV12	CCV	1	19.25	1.281	15	PASS
CCB12	CCB	1	0	2108.079	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.53	1.444	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0112001.d	RINSE	ICAL	1	01/14/24 12:20 PM
A0114002.d	RINSE	ICAL	1	01/14/24 12:25 PM
A0114003.d	Cal Blk	IBLK	1	01/14/24 12:29 PM
A0114004.d	Std1-0.1/1 ppb	ICAL	1	01/14/24 12:34 PM
A0114005.d	Std2-0.5/5 ppb	ICAL	1	01/14/24 12:39 PM
A0114006.d	Std3-5/50 ppb	ICAL	1	01/14/24 12:44 PM
A0114007.d	Std4-10/100 ppb	ICAL	1	01/14/24 12:48 PM
A0114008.d	Std5-4.0/20/200 ppb	ICAL	1	01/14/24 12:53 PM
A0114009.d	Std6-8.0/40/400 ppb	ICAL	1	01/14/24 12:58 PM
A0114010.d	Std7-100/1000 ppb	ICAL	1	01/14/24 1:03 PM
A0114011.d	Std8-200/2000 ppb	ICAL	1	01/14/24 1:07 PM
A0114012.d	ICV	ICV	1	01/14/24 1:12 PM
A0114013.d	ICB	ICB	1	01/14/24 1:17 PM
A0114014.d	LLICV1	LLICV	1	01/14/24 1:21 PM
A0114015.d	MLCCV	CCV	1	01/14/24 1:26 PM
A0114016.d	ICSA1	ICSA	1	01/14/24 1:31 PM
A0114017.d	ICSAB1	ICSAB	1	01/14/24 1:35 PM
A0114018.d	MB-106015	MBLK	1	01/14/24 1:40 PM
A0114019.d	LCS-106015	LCS	1	01/14/24 1:44 PM
A0114020.d	N062350-001D	SAMP	1	01/14/24 1:49 PM
A0114021.d	N062350-002B	SAMP	1	01/14/24 1:54 PM
A0114022.d	N062350-003B	SAMP	1	01/14/24 1:58 PM
A0114023.d	N062350-004D	SAMP	1	01/14/24 2:03 PM
A0114024.d	N062350-005D	SAMP	1	01/14/24 2:08 PM
A0114025.d	N062350-006D	SAMP	1	01/14/24 2:12 PM
A0114026.d	N062350-008D	SAMP	1	01/14/24 2:17 PM
A0114027.d	RINSE	ICAL	1	01/14/24 2:21 PM
A0114028.d	CCV1	CCV	1	01/14/24 2:26 PM
A0114029.d	CCB1	CCB	1	01/14/24 2:31 PM
A0114030.d	N062350-009D	SAMP	1	01/14/24 2:35 PM
A0114031.d	N062350-0010E	SAMP	1	01/14/24 2:40 PM
A0114032.d	N062350-0011E	SAMP	1	01/14/24 2:45 PM
A0114033.d	N062350-0012E	SAMP	1	01/14/24 2:49 PM
A0114034.d	N062350-0013E	SAMP	1	01/14/24 2:54 PM
A0114035.d	N062350-0014E	SAMP	1	01/14/24 2:59 PM
A0114036.d	N062350-0015E	SAMP	1	01/14/24 3:03 PM
A0114037.d	N062350-0016B	SAMP	1	01/14/24 3:08 PM
A0114038.d	N062350-0017B	SAMP	1	01/14/24 3:13 PM
A0114039.d	RINSE	ICAL	1	01/14/24 3:17 PM
A0114040.d	CCV2	CCV	1	01/14/24 3:22 PM
A0114041.d	CCB2	CCB	1	01/14/24 3:26 PM
A0114042.d	N062350-0018D	SAMP	1	01/14/24 3:31 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114043.d	N062350-0018D	SAMP	5	01/14/24 3:36 PM
A0114044.d	N062350-0018D-PS	PS	1	01/14/24 3:40 PM
A0114045.d	N062350-0018DMS	MS	1	01/14/24 3:45 PM
A0114046.d	N062350-0018DMSD	MSD	1	01/14/24 3:50 PM
A0114047.d	N062350-0019F	SAMP	1	01/14/24 3:54 PM
A0114048.d	N062350-0020F	SAMP	1	01/14/24 3:59 PM
A0114049.d	MB-106021	MBLK	1	01/14/24 4:04 PM
A0114050.d	LCS-106021	LCS	1	01/14/24 4:08 PM
A0114051.d	RINSE	ICAL	1	01/14/24 4:13 PM
A0114052.d	CCV3	CCV	1	01/14/24 4:18 PM
A0114053.d	CCB3	CCB	1	01/14/24 4:22 PM
A0114054.d	ICSA2	ICSA	1	01/14/24 4:27 PM
A0114055.d	ICSAB2	ICSAB	1	01/14/24 4:31 PM
A0114056.d	N062351-001B	SAMP	1	01/14/24 4:36 PM
A0114057.d	N062351-001B	SAMP	5	01/14/24 4:41 PM
A0114058.d	N062351-001B-PS	PS	1	01/14/24 4:45 PM
A0114059.d	N062351-001B-MS	MS	1	01/14/24 4:50 PM
A0114060.d	N062351-001B-MSD	MSD	1	01/14/24 4:55 PM
A0114061.d	N062351-002B	SAMP	1	01/14/24 4:59 PM
A0114062.d	N062351-003B	SAMP	1	01/14/24 5:04 PM
A0114063.d	N062351-004D	SAMP	1	01/14/24 5:09 PM
A0114064.d	N062351-005D	SAMP	1	01/14/24 5:13 PM
A0114065.d	RINSE	ICAL	1	01/14/24 5:18 PM
A0114066.d	CCV4	CCV	1	01/14/24 5:23 PM
A0114067.d	CCB4	CCB	1	01/14/24 5:27 PM
A0114068.d	N062351-006D	SAMP	1	01/14/24 5:32 PM
A0114069.d	N062351-007D	SAMP	1	01/14/24 5:36 PM
A0114070.d	N062351-008D	SAMP	1	01/14/24 5:41 PM
A0114071.d	N062351-009D	SAMP	1	01/14/24 5:46 PM
A0114072.d	N062351-010D	SAMP	1	01/14/24 5:50 PM
A0114073.d	N062351-011D	SAMP	1	01/14/24 5:55 PM
A0114074.d	N062351-012D	SAMP	1	01/14/24 6:00 PM
A0114075.d	N062351-013D	SAMP	1	01/14/24 6:04 PM
A0114076.d	N062351-014D	SAMP	1	01/14/24 6:09 PM
A0114077.d	RINSE	ICAL	1	01/14/24 6:14 PM
A0114078.d	CCV5	CCV	1	01/14/24 6:18 PM
A0114079.d	CCB5	CCB	1	01/14/24 6:23 PM
A0114080.d	N062352-001B	SAMP	1	01/14/24 6:27 PM
A0114081.d	N062352-002B	SAMP	1	01/14/24 6:32 PM
A0114082.d	N062352-003B	SAMP	1	01/14/24 6:37 PM
A0114083.d	N062272-018C	SAMP	1	01/14/24 6:41 PM
A0114084.d	N062272-018C	SAMP	1	01/14/24 6:46 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114085.d	N062279-023D	SAMP	1	01/14/24 6:51 PM
A0114086.d	N062279-023D	SAMP	1	01/14/24 6:55 PM
A0114087.d	N062310-005B	SAMP	1	01/14/24 7:00 PM
A0114088.d	N062310-005B	SAMP	1	01/14/24 7:05 PM
A0114089.d	RINSE	ICAL	1	01/14/24 7:09 PM
A0114090.d	CCV6	CCV	1	01/14/24 7:14 PM
A0114091.d	CCB6	CCB	1	01/14/24 7:19 PM
A0114092.d	ICSA3	ICSA	1	01/14/24 7:23 PM
A0114093.d	ICSAB3	ICSAB	1	01/14/24 7:28 PM
A0114094.d	N062310-008D	SAMP	1	01/14/24 7:33 PM
A0114095.d	N062310-008D	SAMP	1	01/14/24 7:37 PM
A0114096.d	N062310-011B	SAMP	1	01/14/24 7:42 PM
A0114097.d	N062310-011B	SAMP	1	01/14/24 7:47 PM
A0114098.d	N062310-022D	SAMP	1	01/14/24 7:51 PM
A0114099.d	N062310-022D	SAMP	1	01/14/24 7:56 PM
A0114100.d	N062310-023D	SAMP	1	01/14/24 8:01 PM
A0114101.d	N062310-023D	SAMP	1	01/14/24 8:05 PM
A0114102.d	N062312-012C	SAMP	1	01/14/24 8:10 PM
A0114103.d	RINSE	ICAL	1	01/14/24 8:14 PM
A0114104.d	CCV7	CCV	1	01/14/24 8:19 PM
A0114105.d	CCB7	CCB	1	01/14/24 8:24 PM
A0114106.d	N062312-012C	SAMP	1	01/14/24 8:28 PM
A0114107.d	N062312-016C	SAMP	1	01/14/24 8:33 PM
A0114108.d	N062312-016C	SAMP	1	01/14/24 8:38 PM
A0114109.d	N062350-0014E	SAMP	5	01/14/24 8:42 PM
A0114110.d	N062350-0015E	SAMP	5	01/14/24 8:47 PM
A0114111.d	N062350-0016B	SAMP	25	01/14/24 8:52 PM
A0114112.d	N062350-0017B	SAMP	5	01/14/24 8:56 PM
A0114113.d	N062350-0019F	SAMP	10	01/14/24 9:01 PM
A0114114.d	N062350-0020F	SAMP	10	01/14/24 9:06 PM
A0114115.d	RINSE	ICAL	1	01/14/24 9:10 PM
A0114116.d	CCV8	CCV	1	01/14/24 9:15 PM
A0114117.d	CCB8	CCB	1	01/14/24 9:19 PM
A0114118.d	N062351-001B	SAMP	25	01/14/24 9:24 PM
A0114119.d	N062351-001B-PS	PS	5	01/14/24 9:29 PM
A0114120.d	N062351-001B-MS	MS	5	01/14/24 9:34 PM
A0114121.d	N062351-001B-MSD	MSD	5	01/14/24 9:38 PM
A0114122.d	N062351-002B	SAMP	5	01/14/24 9:43 PM
A0114123.d	N062351-013D	SAMP	5	01/14/24 9:47 PM
A0114124.d	RINSE	ICAL	1	01/14/24 9:52 PM
A0114125.d	CCV9	CCV	1	01/14/24 9:57 PM
A0114126.d	CCB9	CCB	1	01/14/24 10:01 PM

INJECTION LOG: 240114A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0114127.d	ICSA4	ICSA	1	01/14/24 10:06 PM
A0114128.d	ICSAB4	ICSAB	1	01/14/24 10:11 PM
A0114129.d	MB-106016	MBLK	1	01/14/24 10:15 PM
A0114130.d	LCS-106016	LCS	1	01/14/24 10:20 PM
A0114131.d	N062346-001B	SAMP	1	01/14/24 10:25 PM
A0114132.d	N062346-002B	SAMP	1	01/14/24 10:29 PM
A0114133.d	N062346-002B	SAMP	5	01/14/24 10:34 PM
A0114134.d	N062346-002B-PS	PS	1	01/14/24 10:39 PM
A0114135.d	N062346-002B-MS	MS	1	01/14/24 10:43 PM
A0114136.d	N062346-002B-MSD	MSD	1	01/14/24 10:48 PM
A0114137.d	N062348-001C	SAMP	1	01/14/24 10:52 PM
A0114138.d	RINSE	ICAL	1	01/14/24 10:57 PM
A0114139.d	CCV10	CCV	1	01/14/24 11:02 PM
A0114140.d	CCB10	CCB	1	01/14/24 11:07 PM
A0114141.d	N062348-002C	SAMP	1	01/14/24 11:11 PM
A0114142.d	N062348-003C	SAMP	1	01/14/24 11:16 PM
A0114143.d	N062348-004C	SAMP	1	01/14/24 11:20 PM
A0114144.d	N062348-006B	SAMP	1	01/14/24 11:25 PM
A0114145.d	N062348-007B	SAMP	1	01/14/24 11:30 PM
A0114146.d	N062348-008B	SAMP	1	01/14/24 11:34 PM
A0114147.d	N062348-009C	SAMP	1	01/14/24 11:39 PM
A0114148.d	N062348-010C	SAMP	1	01/14/24 11:44 PM
A0114149.d	RINSE	ICAL	1	01/14/24 11:48 PM
A0114150.d	CCV11	CCV	1	01/14/24 11:53 PM
A0114151.d	CCB11	CCB	1	01/14/24 11:58 PM
A0114152.d	ICSA5	ICSA	1	01/15/24 12:02 AM
A0114153.d	ICSAB5	ICSAB	1	01/15/24 12:07 AM
A0114154.d	RINSE	ICAL	1	01/15/24 12:12 AM
A0114155.d	RINSE	ICAL	1	01/15/24 12:16 AM
A0114156.d	RINSE	ICAL	1	01/15/24 12:21 AM
A0114157.d	RINSE	ICAL	1	01/15/24 12:25 AM
A0114158.d	RINSE	ICAL	1	01/15/24 12:30 AM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115001.d	RINSE	ICAL	1	01/15/24 1:00 PM
A0115002.d	RINSE	ICAL	1	01/15/24 1:04 PM
A0115003.d	Cal Blk	IBLK	1	01/15/24 1:09 PM
A0115004.d	Std1-0.1/1 ppb	ICAL	1	01/15/24 1:14 PM
A0115005.d	Std2-0.5/5 ppb	ICAL	1	01/15/24 1:18 PM
A0115006.d	Std3-5/50 ppb	ICAL	1	01/15/24 1:23 PM
A0115007.d	Std4-10/100 ppb	ICAL	1	01/15/24 1:28 PM
A0115008.d	Std5-4.0/20/200 ppb	ICAL	1	01/15/24 1:33 PM
A0115009.d	Std6-8.0/40/400 ppb	ICAL	1	01/15/24 1:37 PM
A0115010.d	Std7-100/1000 ppb	ICAL	1	01/15/24 1:42 PM
A0115011.d	Std8-200/2000 ppb	ICAL	1	01/15/24 1:47 PM
A0115012.d	ICV	ICV	1	01/15/24 1:51 PM
A0115013.d	ICB	ICB	1	01/15/24 1:56 PM
A0115014.d	LLICV1	LLICV	1	01/15/24 2:01 PM
A0115015.d	MLCCV	CCV	1	01/15/24 2:06 PM
A0115016.d	ICSA1	ICSA	1	01/15/24 2:10 PM
A0115017.d	ICSAB1	ICSAB	1	01/15/24 2:15 PM
A0115018.d	MB-106018	MBLK	1	01/15/24 2:20 PM
A0115019.d	LCS-106018	LCS	1	01/15/24 2:25 PM
A0115021.d	MB-106018	MBLK	1	01/15/24 2:31 PM
A0115022.d	LCS-106018	LCS	1	01/15/24 2:36 PM
A0115023.d	N062287-001B	SAMP	1	01/15/24 2:40 PM
A0115024.d	N062287-001B	SAMP	5	01/15/24 2:45 PM
A0115025.d	N062287-001B-PS	PS	1	01/15/24 2:50 PM
A0115026.d	N062287-001B-MS	MS	1	01/15/24 2:54 PM
A0115027.d	N062287-001B-MSD	MSD	1	01/15/24 2:59 PM
A0115028.d	RINSE	ICAL	1	01/15/24 3:04 PM
A0115029.d	CCV1	CCV	1	01/15/24 3:08 PM
A0115030.d	CCB1	CCB	1	01/15/24 3:13 PM
A0115031.d	N062288-001B	SAMP	1	01/15/24 3:18 PM
A0115032.d	N062289-001B	SAMP	1	01/15/24 3:22 PM
A0115033.d	N062303-002A	SAMP	1	01/15/24 3:27 PM
A0115034.d	N062303-003A	SAMP	1	01/15/24 3:32 PM
A0115035.d	RINSE	ICAL	1	01/15/24 3:42 PM
A0115036.d	CCV2	CCV	1	01/15/24 3:46 PM
A0115037.d	CCB2	CCB	1	01/15/24 3:51 PM
A0115038.d	ICSA2	ICSA	1	01/15/24 3:56 PM
A0115039.d	ICSAB2	ICSAB	1	01/15/24 4:00 PM
A0115040.d	MB-106060	MBLK	1	01/15/24 4:05 PM
A0115041.d	LCS-106060	LCS	1	01/15/24 4:10 PM
A0115042.d	N062370-001A	SAMP	1	01/15/24 4:14 PM
A0115043.d	N062370-001A	SAMP	5	01/15/24 4:19 PM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115044.d	N062370-001A-PS	PS	1	01/15/24 4:24 PM
A0115045.d	N062370-001A-MS	MS	1	01/15/24 4:28 PM
A0115046.d	N062370-001A-MSD	MSD	1	01/15/24 4:33 PM
A0115047.d	CCV3	CCV	1	01/15/24 4:38 PM
A0115048.d	CCB3	CCB	1	01/15/24 4:42 PM
A0115049.d	MB-106052	MBLK	1	01/15/24 4:47 PM
A0115050.d	LCS-106052	LCS	1	01/15/24 4:52 PM
A0115051.d	N062372-001D	SAMP	1	01/15/24 4:56 PM
A0115052.d	N062372-001D	SAMP	5	01/15/24 5:01 PM
A0115053.d	N062372-001D-PS	PS	1	01/15/24 5:06 PM
A0115054.d	N062372-001D-MS	MS	1	01/15/24 5:10 PM
A0115055.d	N062372-001D-MSD	MSD	1	01/15/24 5:15 PM
A0115056.d	N062373-001D	SAMP	1	01/15/24 5:20 PM
A0115057.d	N062373-002D	SAMP	1	01/15/24 5:24 PM
A0115058.d	RINSE	ICAL	1	01/15/24 5:29 PM
A0115059.d	CCV4	CCV	1	01/15/24 5:34 PM
A0115060.d	CCB4	CCB	1	01/15/24 5:38 PM
A0115061.d	N062373-003D	SAMP	1	01/15/24 5:43 PM
A0115062.d	N062373-004D	SAMP	1	01/15/24 5:47 PM
A0115063.d	N062373-005D	SAMP	1	01/15/24 5:52 PM
A0115064.d	N062373-006D	SAMP	1	01/15/24 5:57 PM
A0115065.d	N062373-007D	SAMP	1	01/15/24 6:01 PM
A0115066.d	N062373-008D	SAMP	1	01/15/24 6:06 PM
A0115067.d	N062373-010D	SAMP	1	01/15/24 6:11 PM
A0115068.d	N062373-011D	SAMP	1	01/15/24 6:15 PM
A0115069.d	N062373-012D	SAMP	1	01/15/24 6:20 PM
A0115070.d	RINSE	ICAL	1	01/15/24 6:25 PM
A0115071.d	CCV5	CCV	1	01/15/24 6:29 PM
A0115072.d	CCB5	CCB	1	01/15/24 6:34 PM
A0115073.d	N062372-001D-MS	MS	1	01/15/24 6:47 PM
A0115074.d	N062373-001D	SAMP	100	01/15/24 6:52 PM
A0115075.d	N062373-002D	SAMP	100	01/15/24 6:56 PM
A0115076.d	N062373-011D	SAMP	100	01/15/24 7:01 PM
A0115077.d	N062373-012D	SAMP	100	01/15/24 7:06 PM
A0115078.d	N062372-001D-MS	MS	1	01/15/24 7:10 PM
A0115079.d	N062372-001D-MS	MS	1	01/15/24 7:19 PM
A0115080.d	N062372-001D-MS	MS	1	01/15/24 7:24 PM
A0115081.d	RINSE	ICAL	1	01/15/24 7:28 PM
A0115082.d	CCV6	CCV	1	01/15/24 7:33 PM
A0115083.d	CCB6	CCB	1	01/15/24 7:37 PM
A0115084.d	ICSA3	ICSA	1	01/15/24 7:42 PM
A0115085.d	ICSAB3	ICSAB	1	01/15/24 7:47 PM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115086.d	N062350-018D	SAMP	1	01/15/24 7:51 PM
A0115087.d	N062272-018C	SAMP	1	01/15/24 7:56 PM
A0115088.d	N062279-023D	SAMP	1	01/15/24 8:01 PM
A0115089.d	N062310-005B	SAMP	1	01/15/24 8:05 PM
A0115090.d	N062310-008D	SAMP	1	01/15/24 8:10 PM
A0115091.d	N062310-011B	SAMP	1	01/15/24 8:15 PM
A0115092.d	N062312-012C	SAMP	1	01/15/24 8:19 PM
A0115093.d	N062312-016C	SAMP	1	01/15/24 8:24 PM
A0115094.d	N062348-002C	SAMP	1	01/15/24 8:29 PM
A0115095.d	RINSE	ICAL	1	01/15/24 8:33 PM
A0115096.d	CCV7	CCV	1	01/15/24 8:38 PM
A0115097.d	CCB7	CCB	1	01/15/24 8:43 PM
A0115098.d	N062350-018D	SAMP	1	01/15/24 8:47 PM
A0115099.d	N062279-023D	SAMP	1	01/15/24 8:52 PM
A0115100.d	N062310-008D	SAMP	1	01/15/24 8:57 PM
A0115101.d	N062310-011B	SAMP	1	01/15/24 9:01 PM
A0115102.d	N062312-012C	SAMP	1	01/15/24 9:06 PM
A0115104.d	N062348-002C	SAMP	1	01/15/24 9:10 PM
A0115105.d	N062350-018D	SAMP	1	01/15/24 9:15 PM
A0115106.d	N062279-023D	SAMP	1	01/15/24 9:20 PM
A0115107.d	RINSE	ICAL	1	01/15/24 9:24 PM
A0115108.d	CCV8	CCV	1	01/15/24 9:29 PM
A0115109.d	CCB8	CCB	1	01/15/24 9:34 PM
A0115110.d	N062310-008D	SAMP	1	01/15/24 9:38 PM
A0115111.d	N062310-011B	SAMP	1	01/15/24 9:43 PM
A0115112.d	N062312-012C	SAMP	1	01/15/24 9:48 PM
A0115114.d	N062348-002C	SAMP	1	01/15/24 9:52 PM
A0115115.d	N062348-004C	SAMP	10	01/15/24 9:57 PM
A0115116.d	N062348-006B	SAMP	100	01/15/24 10:02 PM
A0115117.d	N062348-007B	SAMP	10	01/15/24 10:06 PM
A0115118.d	N062348-008B	SAMP	10	01/15/24 10:11 PM
A0115119.d	RINSE	ICAL	1	01/15/24 10:16 PM
A0115120.d	CCV9	CCV	1	01/15/24 10:20 PM
A0115121.d	CCB9	CCB	1	01/15/24 10:25 PM
A0115122.d	ICSA4	ICSA	1	01/15/24 10:30 PM
A0115123.d	ICSAB4	ICSAB	1	01/15/24 10:34 PM
A0115124.d	N062208-005A	SAMP	1	01/15/24 10:39 PM
A0115125.d	N062208-005B	SAMP	1	01/15/24 10:43 PM
A0115126.d	N062210-002A	SAMP	1	01/15/24 10:48 PM
A0115127.d	N062210-002B	SAMP	1	01/15/24 10:53 PM
A0115128.d	N062245-006A	SAMP	1	01/15/24 10:58 PM
A0115129.d	N062245-006D	SAMP	1	01/15/24 11:02 PM

INJECTION LOG: 240115A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0115130.d	N062278-009A	SAMP	1	01/15/24 11:07 PM
A0115131.d	N062278-009D	SAMP	1	01/15/24 11:11 PM
A0115132.d	N062278-010A	SAMP	1	01/15/24 11:16 PM
A0115133.d	N062278-010D	SAMP	1	01/15/24 11:21 PM
A0115134.d	CCV10	CCV	1	01/15/24 11:25 PM
A0115135.d	CCB10	CCB	1	01/15/24 11:30 PM
A0115136.d	N062279-004A	SAMP	1	01/15/24 11:35 PM
A0115137.d	N062279-004D	SAMP	1	01/15/24 11:39 PM
A0115138.d	N062279-008A	SAMP	1	01/15/24 11:44 PM
A0115139.d	N062279-008D	SAMP	1	01/15/24 11:49 PM
A0115140.d	N062279-013A	SAMP	1	01/15/24 11:53 PM
A0115141.d	N062279-013B	SAMP	1	01/15/24 11:58 PM
A0115142.d	N062279-018A	SAMP	1	01/16/24 12:03 AM
A0115143.d	N062279-018B	SAMP	1	01/16/24 12:07 AM
A0115144.d	N062279-019A	SAMP	1	01/16/24 12:12 AM
A0115145.d	N062279-019B	SAMP	1	01/16/24 12:17 AM
A0115146.d	CCV11	CCV	1	01/16/24 12:21 AM
A0115147.d	CCB11	CCB	1	01/16/24 12:26 AM
A0115148.d	N062309-001A	SAMP	1	01/16/24 12:31 AM
A0115149.d	N062309-001B	SAMP	1	01/16/24 12:35 AM
A0115150.d	CCV12	CCV	1	01/16/24 12:40 AM
A0115151.d	CCB12	CCB	1	01/16/24 12:44 AM
A0115152.d	ICSA5	ICSA	1	01/16/24 12:49 AM
A0115153.d	ICSAB5	ICSAB	1	01/16/24 12:54 AM
A0115154.d	RINSE	ICAL	1	01/16/24 12:58 AM
A0115155.d	RINSE	ICAL	1	01/16/24 1:03 AM
A0115156.d	RINSE	ICAL	1	01/16/24 1:08 AM
A0115157.d	RINSE	ICAL	1	01/16/24 1:12 AM
A0115158.d	RINSE	ICAL	1	01/16/24 1:17 AM
A0115159.d	RINSE	ICAL	1	01/16/24 1:22 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 10:15:02 AM

Reviewed/ Date: *JRB* 2/18/2024

Page: 1 of 2

Prep End Date: 1/12/2024 2:30:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106016 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106016	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106016	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062346-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062346-002B-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062348-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 1/12/2024 10:15:02 AM

Reviewed/ Date: *JRB* 2/18/2024

Page: 2 of 2

Prep End Date: 1/12/2024 2:30:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106016 Prep Code: 3010_W_MS DISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-02-7

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062348-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15935	NITRIC ACID
15936	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240113A.b
Acq. Date-Time 2024-01-14 08:51:07
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

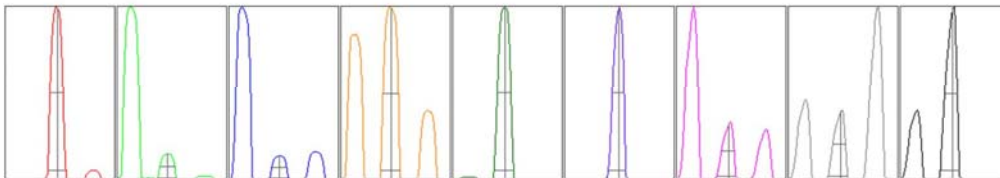
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9326	93259.41	500.00		2.333	5.000
24	10.00	28090	280898.49	500.00		1.709	5.000
25	10.00	3780	37797.56	500.00		2.250	5.000
26	10.00	4372	43722.12	500.00		2.599	5.000
59	10.00	39696	396963.60	500.00		1.701	5.000
115	10.00	47956	479557.06	500.00		1.695	5.000
206	10.00	9487	94867.57	500.00		2.040	5.000
207	10.00	7825	78250.73	500.00		1.877	5.000
208	10.00	19385	193852.31	500.00		1.541	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.521 %
Doubly Charged 70 / 140 1.076 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9412.89	8.95	8.90 - 9.10	
24	28880.51	23.90	23.90 - 24.10	
25	3775.56	24.90	24.90 - 25.10	
26	4445.67	25.90	25.90 - 26.10	
59	39132.45	58.95	58.90 - 59.10	
115	46438.76	115.00	114.90 - 115.10	
206	8604.67	205.95	205.90 - 206.10	
207	7617.75	206.95	206.90 - 207.10	
208	19227.72	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.41	0.496	0.900	
25	0.41	0.494	0.900	
26	0.43	0.536	0.900	
59	0.38	0.530	0.900	
115	0.33	0.474	0.900	
206	0.36	0.528	0.900	
207	0.36	0.535	0.900	
208	0.35	0.531	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2506 V Pulse HV 1566 V

[H2]

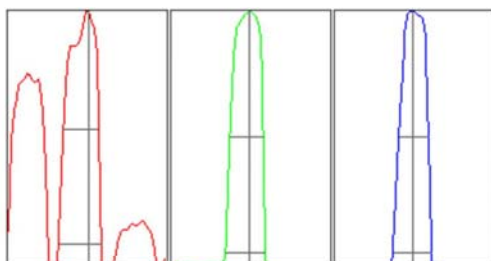
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		240	2398.17			7.036	
59		4138	41377.18			2.586	
115		39171	391713.64			1.934	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.385 %
 Doubly Charged 70 / 140 0.367 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	269.28	26.05	25.90 - 26.10	
59	4272.64	59.00	58.90 - 59.10	
115	40458.99	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.811	0.900	
59	0.63	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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[He]

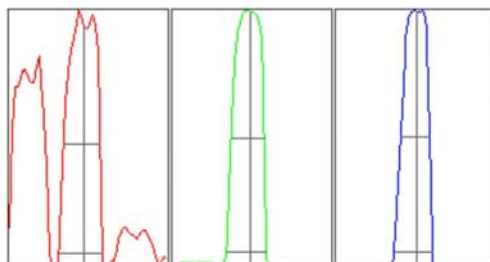
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		104	1043.03			9.506	
59		7991	79913.39			1.858	
115		7621	76207.58			2.391	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.157 %
Doubly Charged	70 / 140 1.261 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	105.26	25.95	25.90 - 26.10	
59	8020.78	59.00	58.90 - 59.10	
115	7603.42	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.828	0.900	
59	0.63	0.743	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2506 V	Pulse HV	1566 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240114A2.b
Acq. Date-Time 2024-01-15 12:44:25
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

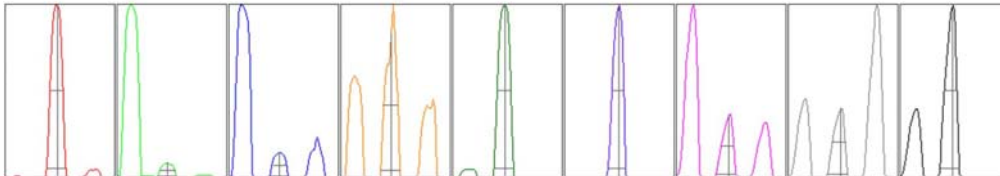
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2919	29188.20	500.00		3.105	5.000
24	10.00	10199	101992.84	500.00		3.455	5.000
25	10.00	1366	13657.26	500.00		4.483	5.000
26	10.00	1597	15970.28	500.00		4.562	5.000
59	10.00	14099	140994.60	500.00		2.991	5.000
115	10.00	17112	171121.08	500.00		2.511	5.000
206	10.00	3470	34701.42	500.00		2.209	5.000
207	10.00	2875	28745.04	500.00		3.362	5.000
208	10.00	7125	71253.22	500.00		2.488	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.878 %
Doubly Charged 70 / 140 0.971 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2948.84	8.95	8.90 - 9.10	
24	10180.30	23.90	23.90 - 24.10	
25	1406.37	24.90	24.90 - 25.10	
26	1975.81	25.90	25.90 - 26.10	
59	13823.55	58.95	58.90 - 59.10	
115	16716.32	115.00	114.90 - 115.10	
206	3253.91	205.95	205.90 - 206.10	
207	2889.90	206.95	206.90 - 207.10	
208	7273.69	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.36	0.524	0.900	
24	0.41	0.501	0.900	
25	0.40	0.493	0.900	
26	0.40	0.532	0.900	
59	0.38	0.532	0.900	
115	0.34	0.481	0.900	
206	0.36	0.538	0.900	
207	0.36	0.551	0.900	
208	0.35	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2509 V Pulse HV 1570 V

[H2]

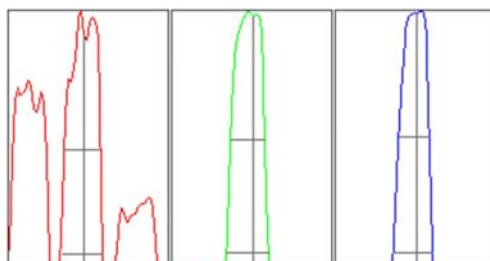
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		80	798.82			10.980	
59		1000	9999.21			3.710	
115		13133	131325.83			2.094	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.666 %
 Doubly Charged 70 / 140 0.321 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	85.00	25.95	25.90 - 26.10	
59	1018.09	59.05	58.90 - 59.10	
115	13405.31	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.789	0.900	
59	0.65	0.784	0.900	
115	0.58	0.738	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2509 V	Pulse HV	1570 V
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[He]

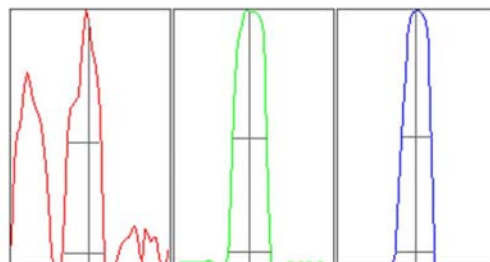
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		36	364.80			16.309	
59		2896	28959.58			2.736	
115		2432	24320.53			3.200	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.250 %
Doubly Charged	70 / 140 1.098 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	47.75	26.00	25.90 - 26.10	
59	2879.84	58.95	58.90 - 59.10	
115	2494.03	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.63	0.782	0.900	
59	0.64	0.785	0.900	
115	0.56	0.735	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2509 V	Pulse HV	1570 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240114A

Instrument ID: ICPMS-03

Analyte	Data File	A0114003.d	A0114004.d	A0114005.d	A0114006.d	A0114007.d	A0114008.d	A0114009.d	A0114010.d	A0114011.d	
	Acq. Date-Time	01/14/2024 12:29 PM	01/14/2024 12:34 PM	01/14/2024 12:39 PM	01/14/2024 12:44 PM	01/14/2024 12:48 PM	01/14/2024 12:53 PM	01/14/2024 12:58 PM	01/14/2024 01:03 PM	01/14/2024 01:07 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	59813.2		61841.6	62519.8	61752.6	60479	62529.9	61303.1	61430.3	
55 Mn [2]	CPS	23.3		1122.9	11340.2	21893.8	44485.4	90704.7	225760	451649	1.0000
52 Cr [2]	CPS	583.3		2519.1	21896.7	43555.8	87181.7	181073.6	445148.2	895642.2	1.0000
72 Ge (ISTD) [1]	CPS	107828		111755.5	109946.5	109330.4	106557.6	111026.3	107934.6	107622.4	
78 Se [1]	CPS	2.2		151.1	1571.2	3115.9	6286.8	13040.8	32088.2	65725.2	0.9999
72 Ge (ISTD) [2]	CPS	33804.8	35594.2	35545.2	35031.9	35195.6	34457.3	35373.7	35286.9	34834.8	
75 As [2]	CPS	7.7	74.4	265.5	2522.3	5086.2	10137.3	21085.3	52043.6	105106.7	0.9999
103 Rh (ISTD) [2]	CPS	911186.3		945175.6	950563.7	945534.9	927883.7	955223.1	943495.5	938661.7	
95 Mo [2]	CPS	22.2		1072.3	10900.4	22137.5	44650.7	92549.1	230935.2	468904.9	1.0000
159 Tb (ISTD) [3]	CPS	2686174.5		2848111.9	2856390.5	2856131.9	2790492.7	2866112.1	2892081.5	2848012.4	
137 Ba [3]	CPS	36.7		2937	27187.3	53782.9	108878.9	225961.9	565948.3	1127957.4	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240115A

Instrument ID: ICPMS-03

Analyte	Data File	A0115003.d	A0115004.d	A0115005.d	A0115006.d	A0115007.d	A0115008.d	A0115009.d	A0115010.d	A0115011.d	
	Acq. Date-Time	01/15/2024 01:09 PM	01/15/2024 01:14 PM	01/15/2024 01:18 PM	01/15/2024 01:23 PM	01/15/2024 01:28 PM	01/15/2024 01:33 PM	01/15/2024 01:37 PM	01/15/2024 01:42 PM	01/15/2024 01:47 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	54001.3		55558.7	55628.9	55856.4	54844	56467.2	55479.5	55407.1	
55 Mn [2]	CPS	20		1042.9	9997.8	19887.8	40000.7	82722.4	204936.1	412243.8	1.0000
52 Cr [2]	CPS	145.6		1984.6	19059.9	38819.6	78088	160522.1	398364.4	803051.9	1.0000
72 Ge (ISTD) [2]	CPS	32819.5	34390.5	33495.4	33781.5	33497.6	33152.4	34086.6	33228.1	33794.9	
75 As [2]	CPS	5.5	57.7	222.2	2296.7	4896.2	9315.7	19437.8	48203.1	99255.3	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0,995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.019	0.10	10.00	0	100	90	110				
Barium	10.121	1.0	10.00	0	101	90	110				
Manganese	100.530	0.50	100.0	0	101	90	110				
Molybdenum	10.031	0.50	10.00	0	100	90	110				
Selenium	9.760	0.50	10.00	0	97.6	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ZZZZZZ	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630515						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.120	0.10	0.1000	0	120	80	120				
Barium	1.030	1.0	1.000	0	103	80	120				
Manganese	0.544	0.50	0.5000	0	109	80	120				
Molybdenum	0.563	0.50	0.5000	0	113	80	120				
Selenium	0.549	0.50	0.5000	0	110	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCV	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630516						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.547	0.10	20.00	0	97.7	90	110				
Barium	19.615	1.0	20.00	0	98.1	90	110				
Manganese	20.189	0.50	20.00	0	101	90	110				
Molybdenum	19.558	0.50	20.00	0	97.8	90	110				
Selenium	18.982	0.50	20.00	0	94.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:			RunNo: 180411		
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024			SeqNo: 5630528		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.303	0.10	20.00	0	96.5	90	110				
Barium	20.120	1.0	20.00	0	101	90	110				
Manganese	19.989	0.50	20.00	0	99.9	90	110				
Molybdenum	19.472	0.50	20.00	0	97.4	90	110				
Selenium	19.624	0.50	20.00	0	98.1	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:			RunNo: 180411		
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024			SeqNo: 5630539		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.526	0.10	20.00	0	97.6	90	110				
Barium	19.885	1.0	20.00	0	99.4	90	110				
Manganese	20.203	0.50	20.00	0	101	90	110				
Molybdenum	19.339	0.50	20.00	0	96.7	90	110				
Selenium	18.989	0.50	20.00	0	94.9	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:			RunNo: 180411		
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024			SeqNo: 5630550		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.998	0.10	20.00	0	95.0	90	110				
Barium	20.156	1.0	20.00	0	101	90	110				
Manganese	19.696	0.50	20.00	0	98.5	90	110				
Molybdenum	19.672	0.50	20.00	0	98.4	90	110				
Selenium	19.195	0.50	20.00	0	96.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630563			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.640	0.10	20.00	0	98.2	90	110				
Barium	20.037	1.0	20.00	0	100	90	110				
Manganese	19.820	0.50	20.00	0	99.1	90	110				
Molybdenum	19.452	0.50	20.00	0	97.3	90	110				
Selenium	19.193	0.50	20.00	0	96.0	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630574			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.152	0.10	20.00	0	95.8	90	110				
Barium	20.318	1.0	20.00	0	102	90	110				
Manganese	19.800	0.50	20.00	0	99.0	90	110				
Molybdenum	19.268	0.50	20.00	0	96.3	90	110				
Selenium	18.751	0.50	20.00	0	93.8	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630585			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.672	0.10	20.00	0	98.4	90	110				
Barium	20.039	1.0	20.00	0	100	90	110				
Manganese	19.969	0.50	20.00	0	99.8	90	110				
Molybdenum	19.032	0.50	20.00	0	95.2	90	110				
Selenium	19.035	0.50	20.00	0	95.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630598			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.135	0.10	20.00	0	95.7	90	110				
Barium	19.891	1.0	20.00	0	99.5	90	110				
Manganese	19.907	0.50	20.00	0	99.5	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.894	0.50	20.00	0	94.5	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630609			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.697	0.10	20.00	0	98.5	90	110				
Barium	20.272	1.0	20.00	0	101	90	110				
Manganese	19.929	0.50	20.00	0	99.6	90	110				
Molybdenum	19.063	0.50	20.00	0	95.3	90	110				
Selenium	18.640	0.50	20.00	0	93.2	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630617			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.222	0.10	20.00	0	96.1	90	110				
Barium	20.222	1.0	20.00	0	101	90	110				
Manganese	19.869	0.50	20.00	0	99.3	90	110				
Molybdenum	19.168	0.50	20.00	0	95.8	90	110				
Selenium	19.022	0.50	20.00	0	95.1	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630630			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.190	0.10	20.00	0	95.9	90	110				
Barium	20.208	1.0	20.00	0	101	90	110				
Manganese	20.045	0.50	20.00	0	100	90	110				
Molybdenum	19.303	0.50	20.00	0	96.5	90	110				
Selenium	19.050	0.50	20.00	0	95.2	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: CCV		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630640			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.247	0.10	20.00	0	96.2	90	110				
Barium	20.253	1.0	20.00	0	101	90	110				
Manganese	20.308	0.50	20.00	0	102	90	110				
Molybdenum	19.242	0.50	20.00	0	96.2	90	110				
Selenium	18.871	0.50	20.00	0	94.4	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: ICV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.430	0.10	10.00	0	104	90	110				
Manganese	100.235	0.50	100.0	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: ZZZZZ	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629050							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.112	0.10	0.1000	0	112	80	120				
Manganese	0.596	0.50	0.5000	0	119	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629051							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.527	0.10	20.00	0	97.6	90	110				
Manganese	19.671	0.50	20.00	0	98.4	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629063							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.378	0.10	20.00	0	96.9	90	110				
Manganese	19.625	0.50	20.00	0	98.1	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.738	0.10	20.00	0	98.7	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.563	0.50	20.00	0	97.8	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629080							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.580	0.10	20.00	0	97.9	90	110				
Manganese	19.754	0.50	20.00	0	98.8	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629091							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.627	0.10	20.00	0	98.1	90	110				
Manganese	19.896	0.50	20.00	0	99.5	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629102							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.214	0.10	20.00	0	96.1	90	110				
Manganese	20.136	0.50	20.00	0	101	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629112							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.692	0.10	20.00	0	98.5	90	110				
Manganese	20.046	0.50	20.00	0	100	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629125							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.252	0.10	20.00	0	96.3	90	110				
Manganese	19.430	0.50	20.00	0	97.2	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629135							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.943	0.10	20.00	0	94.7	90	110				
Manganese	19.572	0.50	20.00	0	97.9	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCV	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629145							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.804	0.10	20.00	0	94.0	90	110				
Manganese	19.555	0.50	20.00	0	97.8	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: ICV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627307	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	9.900	1.0	10.00	0	99.0 90 110

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: ZZZZZ	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627309	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	0.989	1.0	1.000	0	98.9 80 120

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627310	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.810	1.0	20.00	0	99.0 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627322	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.934	1.0	20.00	0	99.7 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627333	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.775	1.0	20.00	0	98.9 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627344							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.617	1.0	20.00	0	98.1	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627357							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.784	1.0	20.00	0	98.9	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627368							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.761	1.0	20.00	0	98.8	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627379							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.712	1.0	20.00	0	98.6	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627392							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.470	1.0	20.00	0	97.4	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627403							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.759	1.0	20.00	0	98.8	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627411							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.754	1.0	20.00	0	98.8	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627424							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.626	1.0	20.00	0	98.1	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCV	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627434							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.039	1.0	20.00	0	100	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629476						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.042	1.0	10.00	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ZZZZZ	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.064	1.0	1.000	0	106	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.804	1.0	20.00	0	99.0	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629491						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.093	1.0	20.00	0	100	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629497						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.038	1.0	20.00	0	100	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629508						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.183	1.0	20.00	0	101	90	110
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Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.143	1.0	20.00	0	101	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629530						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.126	1.0	20.00	0	101	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.031	1.0	20.00	0	100	90	110
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Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.780	1.0	20.00	0	98.9	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629563							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.572	1.0	20.00	0	97.9	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCV	Batch ID: R180451	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629573							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.573	1.0	20.00	0	97.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630514						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630631						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: CCB	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICB	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629049	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629064	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629081	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629092	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629092
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629103
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629113
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629126
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629136
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448						
Client ID: CCB	Batch ID: R180448	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627323						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627334						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627404						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: CCB	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629498						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629531
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629541
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629554
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629564
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451
Client ID: CCB	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629574
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630518						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.877	0.10	20.00	0	99.4	80	120				
Barium	20.372	1.0	20.00	0	102	80	120				
Manganese	20.267	0.50	20.00	0	101	80	120				
Molybdenum	19.988	0.50	20.00	0	99.9	80	120				
Selenium	19.570	0.50	20.00	0	97.8	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSAB		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630553			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.578	0.10	20.00	0	97.9	80	120				
Barium	20.362	1.0	20.00	0	102	80	120				
Manganese	20.373	0.50	20.00	0	102	80	120				
Molybdenum	19.850	0.50	20.00	0	99.2	80	120				
Selenium	19.325	0.50	20.00	0	96.6	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSA		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630587			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 180411			
Client ID: ICSAB		Batch ID: R180411		TestNo: EPA 6020		Analysis Date: 1/14/2024		SeqNo: 5630588			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.698	0.10	20.00	0	98.5	80	120				
Barium	20.547	1.0	20.00	0	103	80	120				
Manganese	20.487	0.50	20.00	0	102	80	120				
Molybdenum	19.822	0.50	20.00	0	99.1	80	120				
Selenium	19.544	0.50	20.00	0	97.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5630620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.694	0.10	20.00	0	98.5	80	120
Barium	20.637	1.0	20.00	0	103	80	120
Manganese	20.267	0.50	20.00	0	101	80	120
Molybdenum	19.689	0.50	20.00	0	98.4	80	120
Selenium	19.301	0.50	20.00	0	96.5	80	120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ICSA	Batch ID: R180411	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5630642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 180411		
Client ID: ICSAB	Batch ID: R180411	TestNo: EPA 6020				Analysis Date: 1/15/2024			SeqNo: 5630643		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.951	0.10	20.00	0	99.8	80	120				
Barium	20.657	1.0	20.00	0	103	80	120				
Manganese	20.537	0.50	20.00	0	103	80	120				
Molybdenum	19.771	0.50	20.00	0	98.9	80	120				
Selenium	19.492	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629052	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA B	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629053	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	20.140	0.10	20.00	0	101 80 120
Manganese	20.239	0.50	20.00	0	101 80 120

Sample ID: ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629071	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA B	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629072	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	20.174	0.10	20.00	0	101 80 120
Manganese	20.210	0.50	20.00	0	101 80 120

Sample ID: ICSA 3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629115	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.943	0.10	20.00	0	99.7	80	120				
Manganese	20.457	0.50	20.00	0	102	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629147	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180448
Client ID: ICSA	Batch ID: R180448	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629148	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.761	0.10	20.00	0	98.8	80	120				
Manganese	20.268	0.50	20.00	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627311						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627311						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.152	1.0	20.00	0	101	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.087	1.0	20.00	0	100	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020		Analysis Date: 1/14/2024	SeqNo: 5627381						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627382							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.285	1.0	20.00	0	101	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627413							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/14/2024	SeqNo: 5627414							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.988	1.0	20.00	0	99.9	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSA	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5627436							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ICSAB	Batch ID: R180413	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5627437							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.301	1.0	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.345	1.0	20.00	0	102	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629499						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629500						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.463	1.0	20.00	0	102	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020		Analysis Date: 1/15/2024	SeqNo: 5629542						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSAB	Batch ID: R180451	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629543							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.389	1.0	20.00	0	102	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSA	Batch ID: R180451	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629575							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180451						
Client ID: ICSAB	Batch ID: R180451	TestNo: EPA 6020	Analysis Date: 1/15/2024	SeqNo: 5629576							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.435	1.0	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	2686174.5	2686174.5	100	PASS	30-150	59813.2	59813.2	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	2835321.4	2686174.5	105.55	PASS	30-150	62107.2	59813.2	103.84	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	2848111.9	2686174.5	106.03	PASS	30-150	61841.6	59813.2	103.39	PASS	30-150
Std3-5/50 ppb	ICAL	1	2856390.5	2686174.5	106.34	PASS	30-150	62519.8	59813.2	104.53	PASS	30-150
Std4-10/100 ppb	ICAL	1	2856131.9	2686174.5	106.33	PASS	30-150	61752.6	59813.2	103.24	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	2790492.7	2686174.5	103.88	PASS	30-150	60479	59813.2	101.11	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	2866112.1	2686174.5	106.7	PASS	30-150	62529.9	59813.2	104.54	PASS	30-150
Std7-100/1000 ppb	ICAL	1	2892081.5	2686174.5	107.67	PASS	30-150	61303.1	59813.2	102.49	PASS	30-150
Std8-200/2000 ppb	ICAL	1	2848012.4	2686174.5	106.03	PASS	30-150	61430.3	59813.2	102.7	PASS	30-150
ICV	ICV	1	2881098.2	2686174.5	107.26	PASS	30-150	60729.8	59813.2	101.53	PASS	30-150
ICB	ICB	1	2723359.4	2686174.5	101.38	PASS	30-150	57469.6	59813.2	96.08	PASS	30-150
LLICV1	LLICV	1	2831032.4	2686174.5	105.39	PASS	30-150	59211.1	59813.2	98.99	PASS	30-150
MLCCV	CCV	1	2794305.8	2686174.5	104.03	PASS	30-150	58563.3	59813.2	97.91	PASS	30-150
ICSA1	ICSA	1	2771468.5	2686174.5	103.18	PASS	30-150	58647	59813.2	98.05	PASS	30-150
ICSAB1	ICSAB	1	2823310.2	2686174.5	105.11	PASS	30-150	59745.2	59813.2	99.89	PASS	30-150
CCV1	CCV	1	2873984	2686174.5	106.99	PASS	30-150	58537.7	59813.2	97.87	PASS	30-150
CCB1	CCB	1	2763448.2	2686174.5	102.88	PASS	30-150	56151.7	59813.2	93.88	PASS	30-150
CCV2	CCV	1	2849593.7	2686174.5	106.08	PASS	30-150	57506.3	59813.2	96.14	PASS	30-150
CCB2	CCB	1	2730206.9	2686174.5	101.64	PASS	30-150	55262.1	59813.2	92.39	PASS	30-150
CCV3	CCV	1	2842012.5	2686174.5	105.8	PASS	30-150	57074.9	59813.2	95.42	PASS	30-150
CCB3	CCB	1	2703570.9	2686174.5	100.65	PASS	30-150	54977	59813.2	91.91	PASS	30-150
ICSA2	ICSA	1	2773097.5	2686174.5	103.24	PASS	30-150	55992.3	59813.2	93.61	PASS	30-150
ICSAB2	ICSAB	1	2802416.1	2686174.5	104.33	PASS	30-150	57131.8	59813.2	95.52	PASS	30-150
CCV4	CCV	1	2829596.7	2686174.5	105.34	PASS	30-150	55721.6	59813.2	93.16	PASS	30-150
CCB4	CCB	1	2706880.9	2686174.5	100.77	PASS	30-150	53667	59813.2	89.72	PASS	30-150
CCV5	CCV	1	2816327.1	2686174.5	104.85	PASS	30-150	54600.1	59813.2	91.28	PASS	30-150
CCB5	CCB	1	2693799	2686174.5	100.28	PASS	30-150	52400.7	59813.2	87.61	PASS	30-150
CCV6	CCV	1	2811546.3	2686174.5	104.67	PASS	30-150	53629.1	59813.2	89.66	PASS	30-150
CCB6	CCB	1	2666785.1	2686174.5	99.28	PASS	30-150	51954.9	59813.2	86.86	PASS	30-150
ICSA3	ICSA	1	2740555.7	2686174.5	102.02	PASS	30-150	52856.7	59813.2	88.37	PASS	30-150
ICSAB3	ICSAB	1	2760850.4	2686174.5	102.78	PASS	30-150	53529.9	59813.2	89.5	PASS	30-150
CCV7	CCV	1	2818982.3	2686174.5	104.94	PASS	30-150	52939.1	59813.2	88.51	PASS	30-150
CCB7	CCB	1	2686365.3	2686174.5	100.01	PASS	30-150	50295.4	59813.2	84.09	PASS	30-150
CCV8	CCV	1	2724418.9	2686174.5	101.42	PASS	30-150	51845.7	59813.2	86.68	PASS	30-150
CCB8	CCB	1	2607970.3	2686174.5	97.09	PASS	30-150	49432.8	59813.2	82.65	PASS	30-150
CCV9	CCV	1	2700556.5	2686174.5	100.54	PASS	30-150	51861.3	59813.2	86.71	PASS	30-150
CCB9	CCB	1	2576502.8	2686174.5	95.92	PASS	30-150	50161.7	59813.2	83.86	PASS	30-150
ICSA4	ICSA	1	2664544.5	2686174.5	99.19	PASS	30-150	51318.5	59813.2	85.8	PASS	30-150
ICSAB4	ICSAB	1	2724936.5	2686174.5	101.44	PASS	30-150	52434.2	59813.2	87.66	PASS	30-150
MB-106016	MBLK	1	2598299.6	2686174.5	96.73	PASS	30-150	50080.3	59813.2	83.73	PASS	30-150
LCS-106016	LCS	1	2763116.3	2686174.5	102.86	PASS	30-150	51787.8	59813.2	86.58	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062346-001B	SAMP	1	2628270.1	2686174.5	97.84	PASS	30-150	48613.8	59813.2	81.28	PASS	30-150
N062346-002B	SAMP	1	2661923.8	2686174.5	99.1	PASS	30-150	49006.1	59813.2	81.93	PASS	30-150
N062346-002B	SAMP	5	2622525.4	2686174.5	97.63	PASS	30-150	48349.8	59813.2	80.83	PASS	30-150
N062346-002B-PS	PS	1	2708404.2	2686174.5	100.83	PASS	30-150	49829.6	59813.2	83.31	PASS	30-150
N062346-002B-MS	MS	1	2775389.6	2686174.5	103.32	PASS	30-150	50844.8	59813.2	85.01	PASS	30-150
N062346-002B-MSD	MSD	1	2753737.6	2686174.5	102.52	PASS	30-150	50775.7	59813.2	84.89	PASS	30-150
N062348-001C	SAMP	1	2583798.6	2686174.5	96.19	PASS	30-150	49523.1	59813.2	82.8	PASS	30-150
CCV10	CCV	1	2714478.3	2686174.5	101.05	PASS	30-150	50584.1	59813.2	84.57	PASS	30-150
CCB10	CCB	1	2610507.9	2686174.5	97.18	PASS	30-150	48708.5	59813.2	81.43	PASS	30-150
N062348-002C	SAMP	1	2408112.5	2686174.5	89.65	PASS	30-150	47242.1	59813.2	78.98	PASS	30-150
N062348-003C	SAMP	1	2076019.1	2686174.5	77.29	PASS	30-150	45768.1	59813.2	76.52	PASS	30-150
N062348-004C	SAMP	1	2129384.7	2686174.5	79.27	PASS	30-150	46485.6	59813.2	77.72	PASS	30-150
N062348-006B	SAMP	1	2407619.3	2686174.5	89.63	PASS	30-150	44656.2	59813.2	74.66	PASS	30-150
N062348-007B	SAMP	1	2387043.9	2686174.5	88.86	PASS	30-150	43941	59813.2	73.46	PASS	30-150
N062348-008B	SAMP	1	2309701.6	2686174.5	85.98	PASS	30-150	42862.6	59813.2	71.66	PASS	30-150
N062348-009C	SAMP	1	2267012.6	2686174.5	84.4	PASS	30-150	44653.9	59813.2	74.66	PASS	30-150
N062348-010C	SAMP	1	2283133.5	2686174.5	85	PASS	30-150	45451.6	59813.2	75.99	PASS	30-150
CCV11	CCV	1	2699472.6	2686174.5	100.5	PASS	30-150	47265.6	59813.2	79.02	PASS	30-150
CCB11	CCB	1	2601208.2	2686174.5	96.84	PASS	30-150	46252.6	59813.2	77.33	PASS	30-150
ICSA5	ICSA	1	2639326.9	2686174.5	98.26	PASS	30-150	46822	59813.2	78.28	PASS	30-150
ICSAB5	ICSAB	1	2694237.8	2686174.5	100.3	PASS	30-150	48280.7	59813.2	80.72	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	33804.8	33804.8	100	PASS	30-150	107828	107828	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	35594.2	33804.8	105.29	PASS	30-150	111675.7	107828	103.57	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	35545.2	33804.8	105.15	PASS	30-150	111755.5	107828	103.64	PASS	30-150
Std3-5/50 ppb	ICAL	1	35031.9	33804.8	103.63	PASS	30-150	109946.5	107828	101.96	PASS	30-150
Std4-10/100 ppb	ICAL	1	35195.6	33804.8	104.11	PASS	30-150	109330.4	107828	101.39	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	34457.3	33804.8	101.93	PASS	30-150	106557.6	107828	98.82	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	35373.7	33804.8	104.64	PASS	30-150	111026.3	107828	102.97	PASS	30-150
Std7-100/1000 ppb	ICAL	1	35286.9	33804.8	104.38	PASS	30-150	107934.6	107828	100.1	PASS	30-150
Std8-200/2000 ppb	ICAL	1	34834.8	33804.8	103.05	PASS	30-150	107622.4	107828	99.81	PASS	30-150
ICV	ICV	1	34536.4	33804.8	102.16	PASS	30-150	108178.3	107828	100.32	PASS	30-150
ICB	ICB	1	32859.6	33804.8	97.2	PASS	30-150	100875.4	107828	93.55	PASS	30-150
LLICV1	LLICV	1	34008.6	33804.8	100.6	PASS	30-150	105475.2	107828	97.82	PASS	30-150
MLCCV	CCV	1	33782.6	33804.8	99.93	PASS	30-150	104838.9	107828	97.23	PASS	30-150
ICSA1	ICSA	1	33607.8	33804.8	99.42	PASS	30-150	105018.9	107828	97.39	PASS	30-150
ICSAB1	ICSAB	1	34037.6	33804.8	100.69	PASS	30-150	106949	107828	99.18	PASS	30-150
CCV1	CCV	1	34036.5	33804.8	100.69	PASS	30-150	104846.8	107828	97.24	PASS	30-150
CCB1	CCB	1	33193.7	33804.8	98.19	PASS	30-150	102285.3	107828	94.86	PASS	30-150
CCV2	CCV	1	33311.6	33804.8	98.54	PASS	30-150	104893.8	107828	97.28	PASS	30-150
CCB2	CCB	1	32135.9	33804.8	95.06	PASS	30-150	100836.2	107828	93.52	PASS	30-150
CCV3	CCV	1	33721.4	33804.8	99.75	PASS	30-150	103351.7	107828	95.85	PASS	30-150
CCB3	CCB	1	32138.2	33804.8	95.07	PASS	30-150	99949.6	107828	92.69	PASS	30-150
ICSA2	ICSA	1	32732.7	33804.8	96.83	PASS	30-150	102579.2	107828	95.13	PASS	30-150
ICSAB2	ICSAB	1	33287.1	33804.8	98.47	PASS	30-150	103921.9	107828	96.38	PASS	30-150
CCV4	CCV	1	33144.6	33804.8	98.05	PASS	30-150	102116.3	107828	94.7	PASS	30-150
CCB4	CCB	1	31925.6	33804.8	94.44	PASS	30-150	99869.2	107828	92.62	PASS	30-150
CCV5	CCV	1	32445.4	33804.8	95.98	PASS	30-150	100838.6	107828	93.52	PASS	30-150
CCB5	CCB	1	31403.4	33804.8	92.9	PASS	30-150	95741.5	107828	88.79	PASS	30-150
CCV6	CCV	1	32052.4	33804.8	94.82	PASS	30-150	99206.2	107828	92	PASS	30-150
CCB6	CCB	1	31027.1	33804.8	91.78	PASS	30-150	94999.4	107828	88.1	PASS	30-150
ICSA3	ICSA	1	31254.2	33804.8	92.45	PASS	30-150	97295.9	107828	90.23	PASS	30-150
ICSAB3	ICSAB	1	31938.9	33804.8	94.48	PASS	30-150	98308.6	107828	91.17	PASS	30-150
CCV7	CCV	1	31715.2	33804.8	93.82	PASS	30-150	97415.7	107828	90.34	PASS	30-150
CCB7	CCB	1	30511.7	33804.8	90.26	PASS	30-150	93599	107828	86.8	PASS	30-150
CCV8	CCV	1	30774.4	33804.8	91.04	PASS	30-150	95574.9	107828	88.64	PASS	30-150
CCB8	CCB	1	29298.4	33804.8	86.67	PASS	30-150	91557.7	107828	84.91	PASS	30-150
CCV9	CCV	1	30682.1	33804.8	90.76	PASS	30-150	93951	107828	87.13	PASS	30-150
CCB9	CCB	1	30072.1	33804.8	88.96	PASS	30-150	92006.8	107828	85.33	PASS	30-150
ICSA4	ICSA	1	30836.8	33804.8	91.22	PASS	30-150	94207	107828	87.37	PASS	30-150
ICSAB4	ICSAB	1	31272.1	33804.8	92.51	PASS	30-150	96001.8	107828	89.03	PASS	30-150
MB-106016	MBLK	1	30122.2	33804.8	89.11	PASS	30-150	92444.7	107828	85.73	PASS	30-150
LCS-106016	LCS	1	31656.1	33804.8	93.64	PASS	30-150	95984	107828	89.02	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062346-001B	SAMP	1	29063.6	33804.8	85.97	PASS	30-150	87533.7	107828	81.18	PASS	30-150
N062346-002B	SAMP	1	29693.6	33804.8	87.84	PASS	30-150	91323	107828	84.69	PASS	30-150
N062346-002B	SAMP	5	29676.9	33804.8	87.79	PASS	30-150	89514.3	107828	83.02	PASS	30-150
N062346-002B-PS	PS	1	30308	33804.8	89.66	PASS	30-150	91265	107828	84.64	PASS	30-150
N062346-002B-MS	MS	1	30727.7	33804.8	90.9	PASS	30-150	91994.5	107828	85.32	PASS	30-150
N062346-002B-MSD	MSD	1	30968.1	33804.8	91.61	PASS	30-150	91636.9	107828	84.98	PASS	30-150
N062348-001C	SAMP	1	29048	33804.8	85.93	PASS	30-150	86336.3	107828	80.07	PASS	30-150
CCV10	CCV	1	30830.1	33804.8	91.2	PASS	30-150	94543.5	107828	87.68	PASS	30-150
CCB10	CCB	1	29420.9	33804.8	87.03	PASS	30-150	90484.1	107828	83.92	PASS	30-150
N062348-002C	SAMP	1	27612.2	33804.8	81.68	PASS	30-150	81710.3	107828	75.78	PASS	30-150
N062348-003C	SAMP	1	25859.4	33804.8	76.5	PASS	30-150	74241.8	107828	68.85	PASS	30-150
N062348-004C	SAMP	1	26513.7	33804.8	78.43	PASS	30-150	74889.3	107828	69.45	PASS	30-150
N062348-006B	SAMP	1	26893.2	33804.8	79.55	PASS	30-150	78584.2	107828	72.88	PASS	30-150
N062348-007B	SAMP	1	26196.5	33804.8	77.49	PASS	30-150	77785.9	107828	72.14	PASS	30-150
N062348-008B	SAMP	1	25070.3	33804.8	74.16	PASS	30-150	72789.8	107828	67.51	PASS	30-150
N062348-009C	SAMP	1	26098.6	33804.8	77.2	PASS	30-150	75747.6	107828	70.25	PASS	30-150
N062348-010C	SAMP	1	26420.2	33804.8	78.16	PASS	30-150	78215.7	107828	72.54	PASS	30-150
CCV11	CCV	1	29231.6	33804.8	86.47	PASS	30-150	88437.4	107828	82.02	PASS	30-150
CCB11	CCB	1	28156.4	33804.8	83.29	PASS	30-150	87261	107828	80.93	PASS	30-150
ICSA5	ICSA	1	28845.4	33804.8	85.33	PASS	30-150	89031.7	107828	82.57	PASS	30-150
ICSAB5	ICSAB	1	29545.6	33804.8	87.4	PASS	30-150	90985.8	107828	84.38	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	911186.3	911186.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	945473.8	911186.3	103.76	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	945175.6	911186.3	103.73	PASS	30-150
Std3-5/50 ppb	ICAL	1	950563.7	911186.3	104.32	PASS	30-150
Std4-10/100 ppb	ICAL	1	945534.9	911186.3	103.77	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	927883.7	911186.3	101.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	955223.1	911186.3	104.83	PASS	30-150
Std7-100/1000 ppb	ICAL	1	943495.5	911186.3	103.55	PASS	30-150
Std8-200/2000 ppb	ICAL	1	938661.7	911186.3	103.02	PASS	30-150
ICV	ICV	1	939798.8	911186.3	103.14	PASS	30-150
ICB	ICB	1	883237	911186.3	96.93	PASS	30-150
LLICV1	LLICV	1	915485.2	911186.3	100.47	PASS	30-150
MLCCV	CCV	1	906179.2	911186.3	99.45	PASS	30-150
ICSA1	ICSA	1	897953.9	911186.3	98.55	PASS	30-150
ICSAB1	ICSAB	1	913004.8	911186.3	100.2	PASS	30-150
CCV1	CCV	1	910876.9	911186.3	99.97	PASS	30-150
CCB1	CCB	1	883264.1	911186.3	96.94	PASS	30-150
CCV2	CCV	1	901224.2	911186.3	98.91	PASS	30-150
CCB2	CCB	1	864336	911186.3	94.86	PASS	30-150
CCV3	CCV	1	893881.7	911186.3	98.1	PASS	30-150
CCB3	CCB	1	860264	911186.3	94.41	PASS	30-150
ICSA2	ICSA	1	874320.9	911186.3	95.95	PASS	30-150
ICSAB2	ICSAB	1	896866.5	911186.3	98.43	PASS	30-150
CCV4	CCV	1	890473.1	911186.3	97.73	PASS	30-150
CCB4	CCB	1	856080.3	911186.3	93.95	PASS	30-150
CCV5	CCV	1	870285.5	911186.3	95.51	PASS	30-150
CCB5	CCB	1	842028.2	911186.3	92.41	PASS	30-150
CCV6	CCV	1	871595.2	911186.3	95.65	PASS	30-150
CCB6	CCB	1	829019.7	911186.3	90.98	PASS	30-150
ICSA3	ICSA	1	847148	911186.3	92.97	PASS	30-150
ICSAB3	ICSAB	1	861956	911186.3	94.6	PASS	30-150
CCV7	CCV	1	856683.3	911186.3	94.02	PASS	30-150
CCB7	CCB	1	820526	911186.3	90.05	PASS	30-150
CCV8	CCV	1	837117.9	911186.3	91.87	PASS	30-150
CCB8	CCB	1	804716.5	911186.3	88.32	PASS	30-150
CCV9	CCV	1	831476.9	911186.3	91.25	PASS	30-150
CCB9	CCB	1	798932.2	911186.3	87.68	PASS	30-150
ICSA4	ICSA	1	822324.8	911186.3	90.25	PASS	30-150
ICSAB4	ICSAB	1	841702	911186.3	92.37	PASS	30-150
MB-106016	MBLK	1	803001.2	911186.3	88.13	PASS	30-150
LCS-106016	LCS	1	845363.8	911186.3	92.78	PASS	30-150

INTERNAL STANDARD: 240114A

Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N062346-001B	SAMP	1	751032.6	911186.3	82.42	PASS	30-150
N062346-002B	SAMP	1	767457.6	911186.3	84.23	PASS	30-150
N062346-002B	SAMP	5	775181	911186.3	85.07	PASS	30-150
N062346-002B-PS	PS	1	783066.8	911186.3	85.94	PASS	30-150
N062346-002B-MS	MS	1	790751.1	911186.3	86.78	PASS	30-150
N062346-002B-MSD	MSD	1	791872.6	911186.3	86.91	PASS	30-150
N062348-001C	SAMP	1	734971.7	911186.3	80.66	PASS	30-150
CCV10	CCV	1	829552	911186.3	91.04	PASS	30-150
CCB10	CCB	1	795049.4	911186.3	87.25	PASS	30-150
N062348-002C	SAMP	1	687383.7	911186.3	75.44	PASS	30-150
N062348-003C	SAMP	1	609069.3	911186.3	66.84	PASS	30-150
N062348-004C	SAMP	1	627868.1	911186.3	68.91	PASS	30-150
N062348-006B	SAMP	1	671503.8	911186.3	73.7	PASS	30-150
N062348-007B	SAMP	1	661342.3	911186.3	72.58	PASS	30-150
N062348-008B	SAMP	1	643430	911186.3	70.61	PASS	30-150
N062348-009C	SAMP	1	643093	911186.3	70.58	PASS	30-150
N062348-010C	SAMP	1	648603	911186.3	71.18	PASS	30-150
CCV11	CCV	1	799125.1	911186.3	87.7	PASS	30-150
CCB11	CCB	1	778541.6	911186.3	85.44	PASS	30-150
ICSA5	ICSA	1	793911.5	911186.3	87.13	PASS	30-150
ICSAB5	ICSAB	1	806322.9	911186.3	88.49	PASS	30-150

INTERNAL STANDARD: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	54001.3	54001.3	100	PASS	30-150	32819.5	32819.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	56787.2	54001.3	105.16	PASS	30-150	34390.5	32819.5	104.79	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	55558.7	54001.3	102.88	PASS	30-150	33495.4	32819.5	102.06	PASS	30-150
Std3-5/50 ppb	ICAL	1	55628.9	54001.3	103.01	PASS	30-150	33781.5	32819.5	102.93	PASS	30-150
Std4-10/100 ppb	ICAL	1	55856.4	54001.3	103.44	PASS	30-150	33497.6	32819.5	102.07	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	54844	54001.3	101.56	PASS	30-150	33152.4	32819.5	101.01	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	56467.2	54001.3	104.57	PASS	30-150	34086.6	32819.5	103.86	PASS	30-150
Std7-100/1000 ppb	ICAL	1	55479.5	54001.3	102.74	PASS	30-150	33228.1	32819.5	101.24	PASS	30-150
Std8-200/2000 ppb	ICAL	1	55407.1	54001.3	102.6	PASS	30-150	33794.9	32819.5	102.97	PASS	30-150
ICV	ICV	1	54722.5	54001.3	101.34	PASS	30-150	33218.1	32819.5	101.21	PASS	30-150
ICB	ICB	1	52243.5	54001.3	96.74	PASS	30-150	31789.7	32819.5	96.86	PASS	30-150
LLICV1	LLICV	1	54533	54001.3	100.98	PASS	30-150	32603.5	32819.5	99.34	PASS	30-150
MLCCV	CCV	1	53858.7	54001.3	99.74	PASS	30-150	32562.3	32819.5	99.22	PASS	30-150
ICSA1	ICSA	1	53039.4	54001.3	98.22	PASS	30-150	32007.9	32819.5	97.53	PASS	30-150
ICSAB1	ICSAB	1	53884.2	54001.3	99.78	PASS	30-150	32210.5	32819.5	98.14	PASS	30-150
CCV1	CCV	1	52144.3	54001.3	96.56	PASS	30-150	31376.7	32819.5	95.6	PASS	30-150
CCB1	CCB	1	50392.5	54001.3	93.32	PASS	30-150	30323.6	32819.5	92.4	PASS	30-150
CCV2	CCV	1	52738.4	54001.3	97.66	PASS	30-150	31965.6	32819.5	97.4	PASS	30-150
CCB2	CCB	1	51309.6	54001.3	95.02	PASS	30-150	30796.7	32819.5	93.84	PASS	30-150
ICSA2	ICSA	1	52349.5	54001.3	96.94	PASS	30-150	31613.8	32819.5	96.33	PASS	30-150
ICSAB2	ICSAB	1	53231.1	54001.3	98.57	PASS	30-150	31996.8	32819.5	97.49	PASS	30-150
CCV3	CCV	1	53495.2	54001.3	99.06	PASS	30-150	32472.1	32819.5	98.94	PASS	30-150
CCB3	CCB	1	52174.5	54001.3	96.62	PASS	30-150	31197.5	32819.5	95.06	PASS	30-150
CCV4	CCV	1	48002	54001.3	88.89	PASS	30-150	30079.9	32819.5	91.65	PASS	30-150
CCB4	CCB	1	46874.4	54001.3	86.8	PASS	30-150	29024.6	32819.5	88.44	PASS	30-150
CCV5	CCV	1	47926.3	54001.3	88.75	PASS	30-150	29820.5	32819.5	90.86	PASS	30-150
CCB5	CCB	1	46697.2	54001.3	86.47	PASS	30-150	28923.3	32819.5	88.13	PASS	30-150
CCV6	CCV	1	46571.4	54001.3	86.24	PASS	30-150	29475.4	32819.5	89.81	PASS	30-150
CCB6	CCB	1	45016	54001.3	83.36	PASS	30-150	28192.1	32819.5	85.9	PASS	30-150
ICSA3	ICSA	1	45901.7	54001.3	85	PASS	30-150	28926.6	32819.5	88.14	PASS	30-150
ICSAB3	ICSAB	1	46115.6	54001.3	85.4	PASS	30-150	28854.3	32819.5	87.92	PASS	30-150
N062348-002C	SAMP	1	43905.3	54001.3	81.3	PASS	30-150	26616.1	32819.5	81.1	PASS	30-150
CCV7	CCV	1	45921.7	54001.3	85.04	PASS	30-150	28521.5	32819.5	86.9	PASS	30-150
CCB7	CCB	1	44232.8	54001.3	81.91	PASS	30-150	27893.8	32819.5	84.99	PASS	30-150
N062348-002C	SAMP	1	43025.2	54001.3	79.67	PASS	30-150	26400.2	32819.5	80.44	PASS	30-150
CCV8	CCV	1	45445	54001.3	84.16	PASS	30-150	28422.5	32819.5	86.6	PASS	30-150
CCB8	CCB	1	43461.9	54001.3	80.48	PASS	30-150	27586.6	32819.5	84.06	PASS	30-150
N062348-002C	SAMP	1	42428.2	54001.3	78.57	PASS	30-150	26271.1	32819.5	80.05	PASS	30-150
N062348-004C	SAMP	10	42701.1	54001.3	79.07	PASS	30-150	26626.1	32819.5	81.13	PASS	30-150
N062348-006B	SAMP	100	44063.5	54001.3	81.6	PASS	30-150	28005	32819.5	85.33	PASS	30-150
N062348-007B	SAMP	10	43229.1	54001.3	80.05	PASS	30-150	27540.9	32819.5	83.92	PASS	30-150

INTERNAL STANDARD: 240115A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062348-008B	SAMP	10	42847	54001.3	79.34	PASS	30-150	27148.1	32819.5	82.72	PASS	30-150
CCV9	CCV	1	44611.6	54001.3	82.61	PASS	30-150	28077.4	32819.5	85.55	PASS	30-150
CCB9	CCB	1	43026.4	54001.3	79.68	PASS	30-150	27149.2	32819.5	82.72	PASS	30-150
ICSA4	ICSA	1	43547.7	54001.3	80.64	PASS	30-150	27568.7	32819.5	84	PASS	30-150
ICSAB4	ICSAB	1	43987.6	54001.3	81.46	PASS	30-150	28080.7	32819.5	85.56	PASS	30-150
CCV10	CCV	1	42322.3	54001.3	78.37	PASS	30-150	27149.2	32819.5	82.72	PASS	30-150
CCB10	CCB	1	40817.6	54001.3	75.59	PASS	30-150	26178.7	32819.5	79.77	PASS	30-150
CCV11	CCV	1	41553.7	54001.3	76.95	PASS	30-150	26993.4	32819.5	82.25	PASS	30-150
CCB11	CCB	1	40437.7	54001.3	74.88	PASS	30-150	26307.8	32819.5	80.16	PASS	30-150
CCV12	CCV	1	40399.8	54001.3	74.81	PASS	30-150	26005.1	32819.5	79.24	PASS	30-150
CCB12	CCB	1	39247	54001.3	72.68	PASS	30-150	25272.8	32819.5	77.01	PASS	30-150
ICSA5	ICSA	1	40324.1	54001.3	74.67	PASS	30-150	26028.5	32819.5	79.31	PASS	30-150
ICSAB5	ICSAB	1	40183.8	54001.3	74.41	PASS	30-150	26100.8	32819.5	79.53	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062348
 Test Method: EPA 6020
 Analysis Date: 1/14/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 106016

Instrument ID: ICPMS-03
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn, Mo, Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062346-002B DT 5x	Arsenic	As	µg/L	5.305036	PASS	5.293336	0.22%	10
N062346-002B DT 5x	Barium	Ba	µg/L	32.48709	PASS	29.8307	8.90%	10
N062346-002B DT 5x	Manganese	Mn	µg/L	5.149448	NA	4.704129	9.47%	10
N062346-002B DT 5x	Molybdenum	Mo	µg/L	7.053631	NA	6.98008	1.05%	10
N062346-002B DT 5x	Selenium	Se	µg/L	1.092124	NA	1.152863	5.27%	10
N062346-002B DT 5x	Chromium	Cr	µg/L	26.3787	PASS	25.61773	2.97%	10

Reviewed by:



2/18/2024

Note: NA - Not Applicable

02/01/24 15:44

DT_EPA 6020_N062348_106016

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062348
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062346-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 180411						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5630626						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	14.511	0.10	10.00	5.293	92.2	80	120				
Barium	38.604	1.0	10.00	29.83	87.7	80	120				
Manganese	96.682	0.50	100.0	4.704	92.0	80	120				
Molybdenum	16.849	0.50	10.00	6.980	98.7	80	120				
Selenium	9.903	0.50	10.00	1.153	87.5	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062348
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062346-002B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 180413						
Client ID: ZZZZZZ	Batch ID: 106016	TestNo: EPA 6020	EPA 3010A	Analysis Date: 1/14/2024	SeqNo: 5627420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	35.293	1.0	10.00	25.62	96.8	80	120				

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

CALIFORNIA

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 ELAP Cert 2676 | NV Cert NV00922 | ORELAP/NELAP Cert 4046



LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

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ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062911

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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February 27, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062911

RE: PG&E Topock - PCM, 30121866

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 05, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062911

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for samples N062911-003 and -004 due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (0 ug/L) for sample N062911-003 (MW-76-181-Q124) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of sample upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (0 ug/L) for sample N062911-003 (MW-76-181-Q124) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 4.2 and 3.5 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.



ASSET Laboratories

Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California

Project: PG&E Topock - PCM, 30121866

Lab Order: N062911

Work Order Sample Summary

Contract No:

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062911-001A	MW-76-039-Q124	Groundwater	2/5/2024 1:00:00 PM	2/5/2024	2/27/2024
N062911-001B	MW-76-039-Q124	Groundwater	2/5/2024 1:00:00 PM	2/5/2024	2/27/2024
N062911-001C	MW-76-039-Q124	Groundwater	2/5/2024 1:00:00 PM	2/5/2024	2/27/2024
N062911-002A	MW-76-156-Q124	Groundwater	2/5/2024 1:46:00 PM	2/5/2024	2/27/2024
N062911-002B	MW-76-156-Q124	Groundwater	2/5/2024 1:46:00 PM	2/5/2024	2/27/2024
N062911-002C	MW-76-156-Q124	Groundwater	2/5/2024 1:46:00 PM	2/5/2024	2/27/2024
N062911-003A	MW-76-181-Q124	Groundwater	2/5/2024 2:22:00 PM	2/5/2024	2/27/2024
N062911-003B	MW-76-181-Q124	Groundwater	2/5/2024 2:22:00 PM	2/5/2024	2/27/2024
N062911-003C	MW-76-181-Q124	Groundwater	2/5/2024 2:22:00 PM	2/5/2024	2/27/2024
N062911-004A	MW-76-218-Q124	Groundwater	2/5/2024 3:00:00 PM	2/5/2024	2/27/2024
N062911-004B	MW-76-218-Q124	Groundwater	2/5/2024 3:00:00 PM	2/5/2024	2/27/2024
N062911-004C	MW-76-218-Q124	Groundwater	2/5/2024 3:00:00 PM	2/5/2024	2/27/2024
N062911-005A	EB-709-Q124	Groundwater	2/5/2024 3:10:00 PM	2/5/2024	2/27/2024
N062911-006A	MW-77-046-Q124	Groundwater	2/5/2024 3:15:00 PM	2/5/2024	2/27/2024
N062911-006B	MW-77-046-Q124	Groundwater	2/5/2024 3:15:00 PM	2/5/2024	2/27/2024
N062911-006C	MW-77-046-Q124	Groundwater	2/5/2024 3:15:00 PM	2/5/2024	2/27/2024
N062911-007A	MW-77-102-Q124	Groundwater	2/5/2024 1:13:00 PM	2/5/2024	2/27/2024
N062911-007B	MW-77-102-Q124	Groundwater	2/5/2024 1:13:00 PM	2/5/2024	2/27/2024
N062911-007C	MW-77-102-Q124	Groundwater	2/5/2024 1:13:00 PM	2/5/2024	2/27/2024
N062911-008A	MW-77-158-Q124	Groundwater	2/5/2024 1:55:00 PM	2/5/2024	2/27/2024
N062911-008B	MW-77-158-Q124	Groundwater	2/5/2024 1:55:00 PM	2/5/2024	2/27/2024
N062911-008C	MW-77-158-Q124	Groundwater	2/5/2024 1:55:00 PM	2/5/2024	2/27/2024
N062911-009A	MW-77-187-Q124	Groundwater	2/5/2024 2:41:00 PM	2/5/2024	2/27/2024
N062911-009B	MW-77-187-Q124	Groundwater	2/5/2024 2:41:00 PM	2/5/2024	2/27/2024
N062911-009C	MW-77-187-Q124	Groundwater	2/5/2024 2:41:00 PM	2/5/2024	2/27/2024
N062911-010A	EB-710-Q124	Groundwater	2/5/2024 3:50:00 PM	2/5/2024	2/27/2024
N062911-011A	MW-916-Q124	Groundwater	2/5/2024 1:10:00 PM	2/5/2024	2/27/2024
N062911-011B	MW-916-Q124	Groundwater	2/5/2024 1:10:00 PM	2/5/2024	2/27/2024
N062911-011C	MW-916-Q124	Groundwater	2/5/2024 1:10:00 PM	2/5/2024	2/27/2024



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-001

Client Sample ID: MW-76-039-Q124
Collection Date: 2/5/2024 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246				PrepDate:		Analyst: RAB
Hexavalent Chromium	7.4	0.039	0.20		µg/L	1	2/6/2024 11:32 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106652				PrepDate: 2/6/2024		Analyst: DJ
Chromium	7.1	0.035	1.0		µg/L	1	2/8/2024 01:55 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-002

Client Sample ID: MW-76-156-Q124
Collection Date: 2/5/2024 1:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	2/7/2024 08:43 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106652				PrepDate: 2/6/2024		Analyst: DJ
Chromium	ND	0.035	1.0		µg/L	1	2/8/2024 01:59 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-003

Client Sample ID: MW-76-181-Q124
Collection Date: 2/5/2024 2:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	2/6/2024 01:07 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106652				PrepDate: 2/6/2024		Analyst: DJ
Chromium	3.9	0.035	1.0		µg/L	1	2/8/2024 02:04 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-004

Client Sample ID: MW-76-218-Q124
Collection Date: 2/5/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240221A	QC Batch: R182773						Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	2/21/2024 05:34 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106652					2/6/2024	Analyst: DJ
Chromium	ND	0.035	1.0		µg/L	1	2/8/2024 02:37 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-005

Client Sample ID: EB-709-Q124
Collection Date: 2/5/2024 3:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/6/2024 02:41 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-006

Client Sample ID: MW-77-046-Q124
Collection Date: 2/5/2024 3:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/6/2024 01:54 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-007

Client Sample ID: MW-77-102-Q124
Collection Date: 2/5/2024 1:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246			PrepDate:		Analyst: RAB
Hexavalent Chromium	0.60	0.039	0.20	µg/L	1	2/6/2024 12:10 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-008

Client Sample ID: MW-77-158-Q124
Collection Date: 2/5/2024 1:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/6/2024 04:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-009

Client Sample ID: MW-77-187-Q124
Collection Date: 2/5/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_240206A	QC Batch: R181246		PrepDate:		Analyst: RAB		
Hexavalent Chromium	1.3	0.039	0.20		µg/L	1	2/6/2024 12:57 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-010

Client Sample ID: EB-710-Q124
Collection Date: 2/5/2024 3:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246			PrepDate:			Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	2/6/2024 03:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-011

Client Sample ID: MW-916-Q124
Collection Date: 2/5/2024 1:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240206A	QC Batch: R181246				PrepDate:		Analyst: RAB
Hexavalent Chromium	7.4	0.039	0.20		µg/L	1	2/6/2024 03:19 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106652				PrepDate: 2/6/2024		Analyst: DJ
Chromium	7.2	0.035	1.0		µg/L	1	2/8/2024 03:00 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181246	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246
Client ID: PBW	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672810
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID: LCS-R181246	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246
Client ID: LCSW	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672811
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.877	0.20	5.000	0	97.5 90 110

Sample ID: N062911-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672813
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	12.433	0.20	5.000	7.425	100 90 110

Sample ID: N062911-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672816
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.559	0.20	1.000	0.5992	95.9 90 110

Sample ID: N062911-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672822
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.966	1.0	5.000	0	99.3 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062911-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672823							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.826	1.0	5.000	0	96.5	90	110	4.966	2.87	20	

Sample ID: N062911-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672825							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.061	0.20	1.000	0	106	90	110				

Sample ID: N062911-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672830							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.068	0.20	1.000	0	107	90	110				

Sample ID: N062911-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672832							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.066	0.20	1.000	0	107	90	110				

Sample ID: N062911-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.301	0.20	5.000	7.357	98.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062911-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672840						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.115	0.20	1.000	0.1063	101	90	110				
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Sample ID: N062911-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672841						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	7.279	0.20						7.425	1.98	20	
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Sample ID: N062911-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	6.597	1.0	5.000	1.621	99.5	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181320	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: PBW	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: LCS-R181320	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: LCSW	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.827 0.20 5.000 0 96.5 90 110

Sample ID: N062938-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 2.449 0.20 1.000 1.400 105 90 110

Sample ID: N062938-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 42.382 1.0 25.00 17.17 101 90 110

Sample ID: N062938-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.070 0.20 1.000 0 107 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677953						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.808	1.0	25.00	18.41	97.6	90	110				

Sample ID: N062938-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.729	1.0	25.00	32.42	97.3	90	110				

Sample ID: N062938-004ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	31.707	1.0						32.42	2.21	20	

Sample ID: N062938-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.185	0.20	1.000	0.1252	106	90	110				

Sample ID: N062938-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.061	0.20	1.000	0	106	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677966						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.047	0.20	1.000	0	105	90	110				

Sample ID: N062938-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.20	1.000	0	106	90	110				

Sample ID: N062938-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.034	0.20	1.000	0	103	90	110				

Sample ID: N062938-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.004	0.20	1.000	0	100	90	110				

Sample ID: N062938-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677976						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.032	0.20	1.000	0	103	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.593	1.0	5.000	0	91.9	90	110				

Sample ID: N062938-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.801	1.0	5.000	0	96.0	90	110				

Sample ID: N062938-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.974	1.0	5.000	0	99.5	90	110				

Sample ID: N062911-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.020	0.20	1.000	0	102	90	110				

Sample ID: N062938-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	252.772	4.0	100.0	153.1	99.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-004AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.452	1.0	25.00	32.42	96.1	90	110	56.73	0.489	20	

Sample ID: N062938-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677993							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.291	0.20	1.000	0.3353	95.6	90	110				

Sample ID: N062938-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677995							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	115.274	2.0	50.00	66.41	97.7	90	110				

Sample ID: N062938-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.031	0.20	1.000	0	103	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R182773	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: PBW	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704448						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: LCS-R182773	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: LCSW	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.000 0.20 5.000 0 100 90 110

Sample ID: N063211-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.417 0.20 1.000 0.3980 102 90 110

Sample ID: N063211-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704455						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.452 0.20 1.000 0.4578 99.5 90 110

Sample ID: N063211-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.248 0.20 1.000 0.3007 94.7 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063213-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704457						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	95.417	2.0	50.00	47.41	96.0	90	110				

Sample ID: N063213-008AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	95.860	2.0	50.00	47.41	96.9	90	110	95.42	0.463	20	

Sample ID: N063211-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.392	0.20						0.3980	1.65	20	

Sample ID: N063213-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704468						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.581	0.20	1.000	1.646	93.4	90	110				

Sample ID: N063213-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704469						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1070.640	20	500.0	575.3	99.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063213-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704470						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2121.240	40	1000	1126	99.6	90	110				

Sample ID: N063213-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.883	1.0	5.000	0	97.7	90	110				

Sample ID: N063213-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704474						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.047	0.20	1.000	0	105	90	110				

Sample ID: N062911-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.424	1.0	5.000	0.6365	95.8	90	110				

Sample ID: N063214-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.945	0.20	1.000	0	94.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063214-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.992	0.20	1.000	0	99.2	90	110				

Sample ID: N063214-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704486						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.995	0.20	1.000	0	99.5	90	110				

Sample ID: N063214-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704490						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.895	1.0	5.000	0	97.9	90	110				

Sample ID: N063214-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.639	1.0	5.000	0	92.8	90	110				

Sample ID: N063214-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.879	1.0	5.000	0	97.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063213-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704497							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	51.472	1.0	25.00	26.91	98.2	90	110				

Sample ID: N063213-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704499							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	954.410	20	500.0	475.8	95.7	90	110				

Sample ID: N063213-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704501							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.737	0.20	5.000	8.107	92.6	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-106652	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181347						
Client ID: PBW	Batch ID: 106652	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-106652	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181347						
Client ID: LCSW	Batch ID: 106652	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.918	1.0	10.00	0	99.2	85	115				
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Sample ID: N062911-003CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181347						
Client ID: ZZZZZ	Batch ID: 106652	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680792						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	13.018	1.0	10.00	3.881	91.4	75	125				
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Sample ID: N062911-003CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181347						
Client ID: ZZZZZ	Batch ID: 106652	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680793						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	13.234	1.0	10.00	3.881	93.5	75	125	13.02	1.65	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-001

Client Sample ID: MW-76-039-Q124
Collection Date: 2/5/2024 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	400	17	25		mg/L	50	2/6/2024 02:45 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 11:02 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-002

Client Sample ID: MW-76-156-Q124
Collection Date: 2/5/2024 1:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Sulfate	390	34	50		mg/L	100	2/6/2024 03:17 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 11:34 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-003

Client Sample ID: MW-76-181-Q124
Collection Date: 2/5/2024 2:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Sulfate	440	17	25		mg/L	50	2/6/2024 01:57 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 10:15 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-004

Client Sample ID: MW-76-218-Q124
Collection Date: 2/5/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	450	17	25		mg/L	50	2/6/2024 04:05 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 11:50 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-006

Client Sample ID: MW-77-046-Q124
Collection Date: 2/5/2024 3:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Sulfate	500	34	50		mg/L	100	2/6/2024 04:21 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 12:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-007

Client Sample ID: MW-77-102-Q124
Collection Date: 2/5/2024 1:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	530	17	25		mg/L	50	2/6/2024 04:36 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 12:53 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-008

Client Sample ID: MW-77-158-Q124
Collection Date: 2/5/2024 1:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	280	17	25		mg/L	50	2/6/2024 04:52 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 01:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-009

Client Sample ID: MW-77-187-Q124
Collection Date: 2/5/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	250	17	25		mg/L	50	2/6/2024 05:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 01:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-011

Client Sample ID: MW-916-Q124
Collection Date: 2/5/2024 1:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Sulfate	390	17	25		mg/L	50	2/6/2024 05:24 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240206A	QC Batch: R181233				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/6/2024 01:41 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R181233_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: PBW	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: LCS-R181233_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: LCSW	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.047	0.50	4.000	0	101	90	110				

Sample ID: N062911-003BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	639.635	25	200.0	440.9	99.4	80	120				

Sample ID: N062911-003BMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	640.485	25	200.0	440.9	99.8	80	120	639.6	0.133	20	

Sample ID: N062911-001BDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673429						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	390.275	25						397.6	1.86	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R181233_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: PBW	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673330						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050
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Sample ID: LCS-R181233_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: LCSW	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673331						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	1.275	0.050	1.250	0	102	90	110
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Sample ID: N062911-003BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673333						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	12.409	0.50	12.50	0	99.3	80	120
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Sample ID: N062911-003BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673334						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	12.184	0.50	12.50	0	97.5	80	120	12.41	1.83	20
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Sample ID: N062911-001BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ZZZZZ	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.50									
						0	0	20			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |

Calculations are based on raw values

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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-001

Client Sample ID: MW-76-039-Q124
Collection Date: 2/5/2024 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	2/7/2024 01:23 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-002

Client Sample ID: MW-76-156-Q124
Collection Date: 2/5/2024 1:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate:	2/6/2024	Analyst: DJ	
Iron	35	13	20		µg/L	1	2/7/2024 01:28 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-003

Client Sample ID: MW-76-181-Q124
Collection Date: 2/5/2024 2:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate:	2/6/2024	Analyst: DJ	
Iron	46	13	20		µg/L	1	2/7/2024 01:33 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-004

Client Sample ID: MW-76-218-Q124
Collection Date: 2/5/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ	
Iron	34	13	20	µg/L	1	2/7/2024 02:06 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-006

Client Sample ID: MW-77-046-Q124
Collection Date: 2/5/2024 3:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ
Iron	280	13	20	µg/L	1	2/7/2024 02:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-007

Client Sample ID: MW-77-102-Q124
Collection Date: 2/5/2024 1:13:00 PM
Matrix: GROUNDWATER

Analyses **Result** **MDL** **PQL** **Qual** **Units** **DF** **Date Analyzed**

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: **NV00922-ICP3_240207B** QC Batch: **106653** PrepDate: **2/6/2024** Analyst: **DJ**
Iron 51 13 20 µg/L 1 2/7/2024 02:15 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-008

Client Sample ID: MW-77-158-Q124
Collection Date: 2/5/2024 1:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ
Iron	80	13	20	µg/L	1	2/7/2024 02:20 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-009

Client Sample ID: MW-77-187-Q124
Collection Date: 2/5/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ
Iron	30	13	20	µg/L	1	2/7/2024 02:26 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-011

Client Sample ID: MW-916-Q124
Collection Date: 2/5/2024 1:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106653			PrepDate: 2/6/2024		Analyst: DJ
Iron	21	13	20	µg/L	1	2/7/2024 02:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: MB-106653	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181269
Client ID: PBW	Batch ID: 106653	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673828
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: N062911-003CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181269
Client ID: ZZZZZ	Batch ID: 106653	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673836
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	131.918	20	100.0	45.64	86.3 75 125

Sample ID: N062911-003CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181269
Client ID: ZZZZZ	Batch ID: 106653	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673839
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	134.899	20	100.0	45.64	89.3 75 125 131.9 2.23 20

Sample ID: LCS-106653	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181269
Client ID: LCSW	Batch ID: 106653	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673846
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	104.279	20	100.0	0	104 85 115

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-001

Client Sample ID: MW-76-039-Q124
Collection Date: 2/5/2024 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	01:55 AM
Barium	150	0.083	1.0	µg/L	1	2/8/2024	01:55 AM
Manganese	ND	0.026	0.50	µg/L	1	2/8/2024	01:55 AM
Molybdenum	12	0.12	0.50	µg/L	1	2/8/2024	01:55 AM
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024	01:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-002

Client Sample ID: MW-76-156-Q124
Collection Date: 2/5/2024 1:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	01:59 AM
Barium	41	0.083	1.0	µg/L	1	2/8/2024	01:59 AM
Manganese	79	0.026	0.50	µg/L	1	2/8/2024	01:59 AM
Molybdenum	10	0.12	0.50	µg/L	1	2/8/2024	01:59 AM
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024	01:59 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-003

Client Sample ID: MW-76-181-Q124
Collection Date: 2/5/2024 2:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 02:04 AM	
Barium	33	0.083	1.0	µg/L	1	2/8/2024 02:04 AM	
Manganese	45	0.026	0.50	µg/L	1	2/8/2024 02:04 AM	
Molybdenum	45	0.12	0.50	µg/L	1	2/8/2024 02:04 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 02:04 AM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-004

Client Sample ID: MW-76-218-Q124
Collection Date: 2/5/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208E	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	1.6	0.050	0.10	µg/L	1	2/8/2024 10:15 PM	
Barium	41	0.083	1.0	µg/L	1	2/8/2024 02:37 AM	
Manganese	100	0.026	0.50	µg/L	1	2/8/2024 02:37 AM	
Molybdenum	81	0.12	0.50	µg/L	1	2/8/2024 02:37 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 02:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-006

Client Sample ID: MW-77-046-Q124
Collection Date: 2/5/2024 3:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208E	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	1.6	0.050	0.10	µg/L	1	2/8/2024	10:20 PM
Barium	90	0.083	1.0	µg/L	1	2/8/2024	02:41 AM
Manganese	660	0.26	5.0	µg/L	10	2/8/2024	09:28 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-007

Client Sample ID: MW-77-102-Q124
Collection Date: 2/5/2024 1:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 02:46 AM	
Barium	87	0.083	1.0	µg/L	1	2/8/2024 02:46 AM	
Manganese	69	0.026	0.50	µg/L	1	2/8/2024 02:46 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-008

Client Sample ID: MW-77-158-Q124
Collection Date: 2/5/2024 1:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 02:50 AM	
Barium	42	0.083	1.0	µg/L	1	2/8/2024 02:50 AM	
Manganese	93	0.026	0.50	µg/L	1	2/8/2024 02:50 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-009

Client Sample ID: MW-77-187-Q124
Collection Date: 2/5/2024 2:41:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	3.2	0.050	0.10	µg/L	1	2/8/2024	02:55 AM
Barium	43	0.083	1.0	µg/L	1	2/8/2024	02:55 AM
Manganese	120	0.026	0.50	µg/L	1	2/8/2024	02:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 27-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062911
Project: PG&E Topock - PCM, 30121866
Lab ID: N062911-011

Client Sample ID: MW-916-Q124
Collection Date: 2/5/2024 1:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106652	PrepDate:	2/6/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 03:00 AM	
Barium	150	0.083	1.0	µg/L	1	2/8/2024 03:00 AM	
Manganese	ND	0.026	0.50	µg/L	1	2/8/2024 03:00 AM	
Molybdenum	12	0.12	0.50	µg/L	1	2/8/2024 03:00 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 03:00 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-106652	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181346						
Client ID: PBW	Batch ID: 106652	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: LCS-106652	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181346						
Client ID: LCSW	Batch ID: 106652	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.158	0.10	10.00	0	102	85	115				
Barium	10.338	1.0	10.00	0	103	85	115				
Manganese	98.096	0.50	100.0	0	98.1	85	115				
Molybdenum	10.063	0.50	10.00	0	101	85	115				
Selenium	9.728	0.50	10.00	0	97.3	85	115				

Sample ID: N062911-003CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/6/2024	RunNo: 181346						
Client ID: ZZZZZ	Batch ID: 106652	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.110	0.10	10.00	0	91.1	75	125				
Barium	43.539	1.0	10.00	32.74	108	75	125				
Manganese	136.300	0.50	100.0	44.52	91.8	75	125				
Molybdenum	56.777	0.50	10.00	45.12	117	75	125				
Selenium	8.877	0.50	10.00	0.04758	88.3	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062911-003CMSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 2/6/2024		RunNo: 181346	
Client ID: ZZZZZZ		Batch ID: 106652		TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024		SeqNo: 5680596			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.063	0.10	10.00	0	90.6	75	125	9.110	0.512	20	
Barium	42.975	1.0	10.00	32.74	102	75	125	43.54	1.30	20	
Manganese	136.325	0.50	100.0	44.52	91.8	75	125	136.3	0.0186	20	
Molybdenum	55.880	0.50	10.00	45.12	108	75	125	56.78	1.59	20	
Selenium	9.620	0.50	10.00	0.04758	95.7	75	125	8.877	8.03	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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SAMPLE RECEIVING ITEMS



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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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CHAIN OF CUSTODY RECORD



Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email: mblloes@pivox.com		P.O.#		Phone: 916-786-3302		Fax:															
Submitted By: <i>Riggs Top Field Tech</i>		Signature: <i>M.D. 02/05/24</i>		Date: <i>02/05/24</i>		Sampled By: <i>Riggs Top</i>		Date: <i>02/05/24</i>		Signature: <i>M.D.</i>		Date: <i>02/05/24</i>		I hereby authorize ASSET Labs to perform the tests indicated below.		Project Name: PG&E Topock - PCM		Project Number: 30121866															
Matrix		Ground		X Sediment		Potable		Soil		NPDES		Other Solid		Surface		250 mL poly		1 L poly		500mL poly		500mL poly		500mL poly		3x40 mL VOA		1 L poly		125 mL poly		1 L poly	
Cr(VI) FF (E218.6)		SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3		Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF: HNO3		Total Dissolved Chromium		Dissolved metals (SW6020) FF: HNO3		Selenium, Molybdenum		Total Organic Carbon (SM5310C); H2SO4		Ammonia as Nitrogen (SM4500NH3D); H2SO4		Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)									
Item No.	Laboratory Work Order No.	Sample ID/Location		Sample Date	Sample Time	Others		Turn Around Time	No. of Container	Container Type	PRESERVATION		Remarks		Turn Around Time		No. of Container		Container Type		PRESERVATION		Remarks										
1	N062911-001	✓ MW-76-039-Q124		2/5/2024	13:00			E 3	P	BNS																							
2	-002	✓ MW-76-156-Q124		2/5/2024	13:46			E 3	P	BNS																							
3	-003	✓ MW-76-181-Q124		2/5/2024	14:22			E 3	P	BNS	MSMSD																						
4	-004	✓ MW-76-218-Q124		2/5/2024	15:00			E 3	P	BNS																							
5	-005	✓ EB-709-Q124		2/5/2024	15:10			E 1	P	BNS																							
6	-006	✓ MW-77-046-Q124		2/5/2024	15:15			E 3	P	BNS																							
7	-007	✓ MW-77-102-Q124		2/5/2024	13:13			E 3	P	BNS																							
8	-008	✓ MW-77-158-Q124		2/5/2024	13:55			E 3	P	BNS																							
9	-009	✓ MW-77-187-Q124		2/5/2024	14:41			E 3	P	BNS																							
10	-010	✓ EB-710-Q124		2/5/2024	15:50			E 3	P	BNS																							
11	-011	✓ MW-916-Q124		2/5/2024	9:10	1310		E 3	P	BNS																							

Relinquished by (Signature and Printed Name): <i>M.D. Riggs Top</i>	Date/Time: <i>02/05/24 1610</i>	Relinquished by (Signature and Printed Name): <i>Michael McEntarm</i>	Date/Time: <i>2/5/24 1610</i>	Turn Around Time (TAT):	Special Instruction:
Relinquished by (Signature and Printed Name): <i>Michael McEntarm</i>	Date/Time: <i>2/5/24 1937</i>	Relinquished by (Signature and Printed Name): <i>Michael McEntarm</i>	Date/Time: <i>2/5/24 1937</i>	<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays	
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:		
TAT Starts at 8 AM the following day if samples received after 3:00PM.				Preservatives: H=HCL N=HNO3 S=H2SO4 C=4°C Z=Zn(AC)2 O=NaOH T=Na2S2O3 Others/Specify: B (NH4)2SO4/NH4OH	
Container Type: T=Tube V=VOA P=Pint J=Jar B=Tedlar G=Glass M=Metal M=Metal C=Can					

Terms:
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
 3. Custom EDD formats will be an additional 3% of the total project price.
 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
 5. Trip Blanks and Equipment Blanks are billable sample.
 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are net 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 2/5/2024 Workorder: N062911
 Rep sample Temp (Deg C): 1.7/2.2 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

For: YRodriguez
 Checklist Completed By MDB
 2/6/2024

Reviewed By: MBC for: Jmaestabain
 2/10/2024

ASSET Laboratories

WORK ORDER Summary

06-Feb-24

WorkOrder: N062911

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/5/2024 7:37 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062911-001A	MW-76-039-Q124	2/5/2024 1:00:00 PM	2/20/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-001B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-001C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-002A	MW-76-156-Q124	2/5/2024 1:46:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-002B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-002C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-003A	MW-76-181-Q124	2/5/2024 2:22:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062911-003B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062911-003C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW

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WORK ORDER Summary

06-Feb-24

WorkOrder: N062911

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/5/2024 7:37 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062911-003C	MW-76-181-Q124	2/5/2024 2:22:00 PM	2/20/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062911-004A	MW-76-218-Q124	2/5/2024 3:00:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-004B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-004C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-005A	EB-709-Q124	2/5/2024 3:10:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-006A	MW-77-046-Q124	2/5/2024 3:15:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-006B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-006C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-007A	MW-77-102-Q124	2/5/2024 1:13:00 PM	2/20/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-007B			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-007C			2/20/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

06-Feb-24

WorkOrder: N062911

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/5/2024 7:37 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062911-007C	MW-77-102-Q124	2/5/2024 1:13:00 PM	2/20/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-008A	MW-77-158-Q124	2/5/2024 1:55:00 PM	2/20/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-008B			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-008C			2/20/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-009A	MW-77-187-Q124	2/5/2024 2:41:00 PM	2/20/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-009B			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-009C			2/20/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-010A	EB-710-Q124	2/5/2024 3:50:00 PM	2/20/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-011A	MW-916-Q124	2/5/2024 1:10:00 PM	2/20/2024	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-011B			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
			2/20/2024	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062911-011C			2/20/2024	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	

ASSET Laboratories

WORK ORDER Summary

06-Feb-24

WorkOrder: N062911

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/5/2024 7:37 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062911-011C	MW-916-Q124	2/5/2024 1:10:00 PM	2/20/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/20/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062911-012A	FOLDER	2/20/2024	2/20/2024	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB	
			2/20/2024	Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB	
			2/20/2024	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB	

List of Analysts

ASSET Laboratories Work Order: N062911

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R181246
ASSET #: N062911

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 2/6/2024

Method:

- | | |
|---|---|
| <input type="checkbox"/> EPA 300.0
<input type="checkbox"/> EPA 7199 | <input checked="" type="checkbox"/> EPA 218.6/EPA 218.7
<input type="checkbox"/> EPA 218.6/EPA 218.7 LL
<input type="checkbox"/> Others _____ |
|---|---|

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X			X	
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?	X			X		
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

N062911-003A = <1.0 ppb ; N062911-003C (6020) = 3.9 ppb
MS protocol performed. Recovery within criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer RB 02192024

Date: _____
Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181320
 ASSET #: N062911

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 2/7/2024

Method:

- | | | | |
|-------------------------------------|-----------|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> | EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer RB 02202024

Date: _____
 Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R182773
 ASSET #: N062911

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 2/21/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer RB 02272024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062911-001A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 7.4246 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 7.4246$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 7.4$$

Reviewed by:

d/Recha 2/27/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV.ICV,1	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb.CCV2,1	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB.ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240206A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/06/24 9:42 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/06/24 9:55 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/06/24 10:04 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/06/24 10:14 AM	Reported
13	MB-R181246	MBLK	1	Hexavalent Chromium	02/06/24 10:23 AM	Reported
14	LCS-R181246	LCS	1	Hexavalent Chromium	02/06/24 10:33 AM	Reported
15	N062911-003A	SAMP	1	Hexavalent Chromium	02/06/24 11:12 AM	Not Reported
16	N062911-003AMS	MS	1	Hexavalent Chromium	02/06/24 11:23 AM	Not Reported
17	N062911-001A	SAMP	1	Hexavalent Chromium	02/06/24 11:32 AM	Reported
18	N062911-001AMS	MS	1	Hexavalent Chromium	02/06/24 11:42 AM	Reported
19	N062911-004A	SAMP	5	Hexavalent Chromium	02/06/24 11:51 AM	Reported
20	N062911-004AMS	MS	5	Hexavalent Chromium	02/06/24 12:00 PM	Not Reported
21	N062911-007A	SAMP	1	Hexavalent Chromium	02/06/24 12:10 PM	Reported
22	N062911-007AMS	MS	1	Hexavalent Chromium	02/06/24 12:19 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/06/24 12:29 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/06/24 12:38 PM	Reported
25	N062911-009A	SAMP	1	Hexavalent Chromium	02/06/24 12:48 PM	Not Reported
26	N062911-009A	SAMP	1	Hexavalent Chromium	02/06/24 12:57 PM	Reported
27	N062911-003A	SAMP	5	Hexavalent Chromium	02/06/24 1:07 PM	Reported
28	N062911-003AMS	MS	5	Hexavalent Chromium	02/06/24 1:16 PM	Reported
29	N062911-003AMSD	MSD	5	Hexavalent Chromium	02/06/24 1:26 PM	Reported
30	N062911-002A	SAMP	1	Hexavalent Chromium	02/06/24 1:35 PM	Not Reported
31	N062911-002AMS	MS	1	Hexavalent Chromium	02/06/24 1:45 PM	Not Reported
32	N062911-006A	SAMP	1	Hexavalent Chromium	02/06/24 1:54 PM	Reported
33	N062911-006AMS	MS	1	Hexavalent Chromium	02/06/24 2:03 PM	Reported
34	N062911-003AMSD	MSD	1	Hexavalent Chromium	02/06/24 2:13 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/06/24 2:22 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/06/24 2:32 PM	Reported
37	N062911-005A	SAMP	1	Hexavalent Chromium	02/06/24 2:41 PM	Reported
38	N062911-005AMS	MS	1	Hexavalent Chromium	02/06/24 2:51 PM	Reported
39	N062911-010A	SAMP	1	Hexavalent Chromium	02/06/24 3:00 PM	Reported
40	N062911-010AMS	MS	1	Hexavalent Chromium	02/06/24 3:10 PM	Reported
41	N062911-011A	SAMP	1	Hexavalent Chromium	02/06/24 3:19 PM	Reported
42	N062911-011AMS	MS	1	Hexavalent Chromium	02/06/24 3:29 PM	Reported

INJECTION LOG: 240206A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062911-002A	SAMP	5	Hexavalent Chromium	02/06/24 3:38 PM	Not Reported
44	N062911-002AMS	MS	5	Hexavalent Chromium	02/06/24 3:48 PM	Not Reported
45	N062911-006A	SAMP	5	Hexavalent Chromium	02/06/24 3:57 PM	Not Reported
46	N062911-006AMS	MS	5	Hexavalent Chromium	02/06/24 4:06 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/06/24 4:16 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/06/24 4:25 PM	Reported
49	N062911-008A	SAMP	1	Hexavalent Chromium	02/06/24 4:35 PM	Reported
50	N062911-008AMS	MS	1	Hexavalent Chromium	02/06/24 4:44 PM	Reported
51	N062911-008A	SAMP	5	Hexavalent Chromium	02/06/24 4:54 PM	Not Reported
52	N062911-008AMS	MS	5	Hexavalent Chromium	02/06/24 5:03 PM	Not Reported
53	N062911-001ADUP	DUP	1	Hexavalent Chromium	02/06/24 5:13 PM	Reported
54	N062911-004A	SAMP	1	Hexavalent Chromium	02/06/24 5:22 PM	Not Reported
55	N062911-004AMS	MS	1	Hexavalent Chromium	02/06/24 5:32 PM	Not Reported
56	N062911-004AMS	MS	5	Hexavalent Chromium	02/06/24 5:41 PM	Reported
57	CCV-5	CCV	1	Hexavalent Chromium	02/06/24 5:50 PM	Reported
58	CCB-5	CCB	1	Hexavalent Chromium	02/06/24 6:00 PM	Reported
59	BLANK	BLANK	1	Hexavalent Chromium	02/06/24 6:09 PM	Not Reported

M Rocha 2/27/2024
for RBA

Injection Log Summary

Sequence Details			
Name:	IC-07_240206A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 18:40:11
No. of Injections:	62	Updated By:	ics 5000

Injection Details								
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/06/2024 09:42	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		02/06/2024 09:55	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/06/2024 10:04	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		02/06/2024 10:14	Finished	CCB R240103B
13	MB-H2O.MBLK,1,	5	1000	Unknown		02/06/2024 10:23	Finished	MB R240103B
14	LCS-H2O.LCS,1,	6	1000	Unknown		02/06/2024 10:33	Finished	LCS @5ppb, IWST-231228B
15	N062911-003A.SAMP	1	1000	Unknown		02/06/2024 11:12	Finished	SAMP,10 mL
16	N062911-003AMS,MS	2	1000	Unknown		02/06/2024 11:23	Finished	MS (1ppb), IWST-231228B,10r
17	N062911-001A.SAMP	3	1000	Unknown		02/06/2024 11:32	Finished	SAMP,10 mL
18	N062911-001AMS,MS	4	1000	Unknown		02/06/2024 11:42	Finished	MS (5ppb), IWST-231228B,10r
19	N062911-004A.SAMP	5	1000	Unknown		02/06/2024 11:51	Finished	SAMP,2>10 mL
20	N062911-004AMS,MS	6	1000	Unknown		02/06/2024 12:00	Finished	MS (5ppb), IWST-231228B,2>
21	N062911-007A.SAMP	7	1000	Unknown		02/06/2024 12:10	Finished	SAMP,10 mL
22	N062911-007AMS,MS	8	1000	Unknown		02/06/2024 12:19	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2.CCV,1,	9	1000	Unknown		02/06/2024 12:29	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		02/06/2024 12:38	Finished	CCB R240103B
25	N062911-009A.SAMP	11	1000	Unknown		02/06/2024 12:48	Finished	SAMP,10 mL
26	N062911-009A.SAMP	12	1000	Unknown		02/06/2024 12:57	Finished	MS (1ppb), IWST-231228B,10r
27	N062911-003A.SAMP	13	1000	Unknown		02/06/2024 13:07	Finished	SAMP,2>10 mL
28	N062911-003AMS,MS	14	1000	Unknown		02/06/2024 13:16	Finished	MS (1ppb), IWST-231228B,2>
29	N062911-003AMSD,MS	15	1000	Unknown		02/06/2024 13:26	Finished	MSD (1ppb), IWST-231228B,2>
30	N062911-002A.SAMP	16	1000	Unknown		02/06/2024 13:35	Finished	SAMP,10 mL
31	N062911-002AMS,MS	17	1000	Unknown		02/06/2024 13:45	Finished	MS (5ppb), IWST-231228B,10r
32	N062911-006A.SAMP	18	1000	Unknown		02/06/2024 13:54	Finished	SAMP,10 mL
33	N062911-006AMS,MS	19	1000	Unknown		02/06/2024 14:03	Finished	MS (1ppb), IWST-231228B,10r
34	N062911-003AMSD,MS	20	1000	Unknown		02/06/2024 14:13	Finished	MSD (1ppb), IWST-231228B,10r
35	CCV-3.CCV,1,	21	1000	Unknown		02/06/2024 14:22	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	22	1000	Unknown		02/06/2024 14:32	Finished	CCB R240103B
37	N062911-005A.SAMP	23	1000	Unknown		02/06/2024 14:41	Finished	SAMP,10 mL
38	N062911-005AMS,MS	24	1000	Unknown		02/06/2024 14:51	Finished	MS (1ppb), IWST-231228B,10r
39	N062911-010A.SAMP	25	1000	Unknown		02/06/2024 15:00	Finished	SAMP,10 mL
40	N062911-010AMS,MS	26	1000	Unknown		02/06/2024 15:10	Finished	MS (1ppb), IWST-231228B,10r
41	N062911-011A.SAMP	27	1000	Unknown		02/06/2024 15:19	Finished	SAMP,10 mL
42	N062911-011AMS,MS	28	1000	Unknown		02/06/2024 15:29	Finished	MS (5ppb), IWST-231228B,10r
43	N062911-002A.SAMP	29	1000	Unknown		02/06/2024 15:38	Finished	SAMP,2>10 mL
44	N062911-002AMS,MS	30	1000	Unknown		02/06/2024 15:48	Finished	MS (1ppb), IWST-231228B,2>
45	N062911-006A.SAMP	31	1000	Unknown		02/06/2024 15:57	Finished	SAMP,2>10 mL
46	N062911-006AMS,MS	32	1000	Unknown		02/06/2024 16:06	Finished	MS (1ppb), IWST-231228B,2>
47	CCV-4.CCV,1,	33	1000	Unknown		02/06/2024 16:16	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	34	1000	Unknown		02/06/2024 16:25	Finished	CCB R240103B
49	N062911-008A.SAMP	35	1000	Unknown		02/06/2024 16:35	Finished	SAMP,10 mL
50	N062911-008AMS,MS	36	1000	Unknown		02/06/2024 16:44	Finished	MS (1ppb), IWST-231228B,10r
51	N062911-008A.SAMP	37	1000	Unknown		02/06/2024 16:54	Finished	SAMP,2>10 mL
52	N062911-008AMS,MS	38	1000	Unknown		02/06/2024 17:03	Finished	MS (1ppb), IWST-231228B,2>
53	N062911-001ADUP,MS	39	1000	Unknown		02/06/2024 17:13	Finished	DUP,10 mL
54	N062911-004A.SAMP	40	1000	Unknown		02/06/2024 17:22	Finished	SAMP,10 mL
55	N062911-004AMS,MS	41	1000	Unknown		02/06/2024 17:32	Finished	MS (1ppb), IWST-231228B,10r
56	N062911-004AMS,MS	42	1000	Unknown		02/06/2024 17:41	Finished	MS (1ppb), IWST-231228B,2>
57	CCV-5.CCV,1,	43	1000	Unknown		02/06/2024 17:50	Finished	CCV @5ppb, IWST-231228A
58	CCB-5.CCB,1,	44	1000	Unknown		02/06/2024 18:00	Finished	CCB R240103B
59	BLANK	45	1000	Unknown		02/06/2024 18:09	Finished	BLANK
60	SHUTDOWN	46	1000	Unknown		02/06/2024 18:19	Finished	

61	Eluent: R240205A	47	1000	Unknown		n.a.	Finished	
62	PCR: R240205B	48	1000	Unknown		n.a.	Finished	



INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/07/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/07/24 10:22 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/07/24 10:31 AM	Reported
13	MB-R181320	MBLK	1	Hexavalent Chromium	02/07/24 10:40 AM	Reported
14	LCS-R181320	LCS	1	Hexavalent Chromium	02/07/24 10:50 AM	Reported
15	N062938-004A	SAMP	1	Hexavalent Chromium	02/07/24 11:08 AM	Not Reported
16	N062938-004AMS	MS	1	Hexavalent Chromium	02/07/24 11:19 AM	Not Reported
17	N062938-001A	SAMP	1	Hexavalent Chromium	02/07/24 11:28 AM	Reported
18	N062938-001AMS	MS	1	Hexavalent Chromium	02/07/24 11:37 AM	Reported
19	N062938-002A	SAMP	5	Hexavalent Chromium	02/07/24 11:47 AM	Reported
20	N062938-002AMS	MS	5	Hexavalent Chromium	02/07/24 11:56 AM	Reported
21	N062938-008A	SAMP	1	Hexavalent Chromium	02/07/24 12:06 PM	Reported
22	N062938-008AMS	MS	1	Hexavalent Chromium	02/07/24 12:15 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/07/24 12:25 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/07/24 12:34 PM	Reported
25	N062938-003A	SAMP	5	Hexavalent Chromium	02/07/24 12:44 PM	Reported
26	N062938-003AMS	MS	5	Hexavalent Chromium	02/07/24 12:53 PM	Reported
27	N062938-005A	SAMP	1	Hexavalent Chromium	02/07/24 1:03 PM	Not Reported
28	N062938-005AMS	MS	1	Hexavalent Chromium	02/07/24 1:12 PM	Not Reported
29	N062938-006A	SAMP	1	Hexavalent Chromium	02/07/24 1:22 PM	Not Reported
30	N062938-006AMS	MS	1	Hexavalent Chromium	02/07/24 1:31 PM	Not Reported
31	N062938-016A	SAMP	5	Hexavalent Chromium	02/07/24 1:46 PM	Not Reported
32	N062938-016AMS	MS	5	Hexavalent Chromium	02/07/24 1:57 PM	Not Reported
33	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 2:07 PM	Not Reported
34	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 2:16 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/07/24 2:26 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/07/24 2:35 PM	Reported
37	N062938-004A	SAMP	5	Hexavalent Chromium	02/07/24 2:56 PM	Reported
38	N062938-004AMS	MS	5	Hexavalent Chromium	02/07/24 3:08 PM	Reported
39	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 3:18 PM	Not Reported
40	N062938-004ADUP	DUP	5	Hexavalent Chromium	02/07/24 3:27 PM	Reported
41	N062938-015A	SAMP	1	Hexavalent Chromium	02/07/24 3:36 PM	Not Reported
42	N062938-015AMS	MS	1	Hexavalent Chromium	02/07/24 3:46 PM	Not Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062938-010A	SAMP	1	Hexavalent Chromium	02/07/24 3:55 PM	Reported
44	N062938-010AMS	MS	1	Hexavalent Chromium	02/07/24 4:05 PM	Reported
45	N062938-012A	SAMP	1	Hexavalent Chromium	02/07/24 4:14 PM	Reported
46	N062938-012AMS	MS	1	Hexavalent Chromium	02/07/24 4:24 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/07/24 4:33 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/07/24 4:43 PM	Reported
49	N062938-007A	SAMP	1	Hexavalent Chromium	02/07/24 4:52 PM	Reported
50	N062938-007AMS	MS	1	Hexavalent Chromium	02/07/24 5:02 PM	Reported
51	N062938-013A	SAMP	1	Hexavalent Chromium	02/07/24 5:11 PM	Reported
52	N062938-013AMS	MS	1	Hexavalent Chromium	02/07/24 5:21 PM	Reported
53	N062938-018A	SAMP	1	Hexavalent Chromium	02/07/24 5:30 PM	Reported
54	N062938-018AMS	MS	1	Hexavalent Chromium	02/07/24 5:40 PM	Reported
55	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 5:49 PM	Not Reported
56	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 5:59 PM	Not Reported
57	N062938-011A	SAMP	1	Hexavalent Chromium	02/07/24 6:08 PM	Reported
58	N062938-011AMS	MS	1	Hexavalent Chromium	02/07/24 6:18 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/07/24 6:27 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/07/24 6:36 PM	Reported
61	N062938-019A	SAMP	1	Hexavalent Chromium	02/07/24 6:46 PM	Reported
62	N062938-019AMS	MS	1	Hexavalent Chromium	02/07/24 6:55 PM	Reported
63	N062938-017A	SAMP	5	Hexavalent Chromium	02/07/24 7:05 PM	Reported
64	N062938-017AMS	MS	5	Hexavalent Chromium	02/07/24 7:14 PM	Reported
65	N062938-005A	SAMP	5	Hexavalent Chromium	02/07/24 7:24 PM	Reported
66	N062938-005AMS	MS	5	Hexavalent Chromium	02/07/24 7:33 PM	Reported
67	N062938-006A	SAMP	5	Hexavalent Chromium	02/07/24 7:46 PM	Reported
68	N062938-006AMS	MS	5	Hexavalent Chromium	02/07/24 7:56 PM	Reported
69	N062938-007A	SAMP	5	Hexavalent Chromium	02/07/24 8:05 PM	Not Reported
70	N062938-007AMS	MS	5	Hexavalent Chromium	02/07/24 8:14 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/07/24 8:24 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/07/24 8:33 PM	Reported
73	N062911-002A	SAMP	1	Hexavalent Chromium	02/07/24 8:43 PM	Reported
74	N062911-002AMS	MS	1	Hexavalent Chromium	02/07/24 8:52 PM	Reported
75	N062938-016A	SAMP	20	Hexavalent Chromium	02/07/24 9:02 PM	Reported
76	N062938-016AMS	MS	20	Hexavalent Chromium	02/07/24 9:11 PM	Reported
77	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 9:53 PM	Reported
78	CCV-7	CCV	1	Hexavalent Chromium	02/07/24 10:11 PM	Reported
79	CCB-7	CCB	1	Hexavalent Chromium	02/07/24 10:22 PM	Reported
80	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 10:31 PM	Reported
81	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 10:41 PM	Reported
82	N062938-015A	SAMP	10	Hexavalent Chromium	02/07/24 10:50 PM	Reported
83	N062938-015AMS	MS	10	Hexavalent Chromium	02/07/24 10:59 PM	Reported
84	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 11:09 PM	Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 11:18 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	02/07/24 11:28 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	02/07/24 11:37 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 11:47 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240207A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	08/Feb/24 00:17:33
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/07/2024 09:22	Finished	BLANK
10	CCV-1,CCV,1,	1	1000	Unknown		02/07/2024 10:11	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	2	1000	Unknown		02/07/2024 10:22	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	3	1000	Unknown		02/07/2024 10:31	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	4	1000	Unknown		02/07/2024 10:40	Finished	MB R240103B
14	LCS-H2O,LCS,1,	5	1000	Unknown		02/07/2024 10:50	Finished	LCS @5ppb, IWST-231228B
15	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 11:08	Finished	SAMP,10 mL
16	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 11:19	Finished	MS (5ppb), IWST-231228B,10r
17	N062938-001A,SAMF	3	1000	Unknown		02/07/2024 11:28	Finished	SAMP,10 mL
18	N062938-001AMS,M\$	4	1000	Unknown		02/07/2024 11:37	Finished	MS (1ppb), IWST-231228B,10r
19	N062938-002A,SAMF	5	1000	Unknown		02/07/2024 11:47	Finished	SAMP,2>10 mL
20	N062938-002AMS,M\$	6	1000	Unknown		02/07/2024 11:56	Finished	MS (5ppb), IWST-231228B,2>
21	N062938-008A,SAMF	7	1000	Unknown		02/07/2024 12:06	Finished	SAMP,10 mL
22	N062938-008AMS,M\$	8	1000	Unknown		02/07/2024 12:15	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2,CCV,1,	9	1000	Unknown		02/07/2024 12:25	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		02/07/2024 12:34	Finished	CCB R240103B
25	N062938-003A,SAMF	11	1000	Unknown		02/07/2024 12:44	Finished	SAMP,2>10 mL
26	N062938-003AMS,M\$	12	1000	Unknown		02/07/2024 12:53	Finished	MS (5ppb), IWST-231228B,2>
27	N062938-005A,SAMF	13	1000	Unknown		02/07/2024 13:03	Finished	SAMP,10 mL
28	N062938-005AMS,M\$	14	1000	Unknown		02/07/2024 13:12	Finished	MS (1ppb), IWST-231228B,10r
29	N062938-006A,SAMF	15	1000	Unknown		02/07/2024 13:22	Finished	SAMP,10 mL
30	N062938-006AMS,M\$	16	1000	Unknown		02/07/2024 13:31	Finished	MS (1ppb), IWST-231228B,10r
31	N062938-016A,SAMF	1	1000	Unknown		02/07/2024 13:46	Finished	SAMP,2>10 mL
32	N062938-016AMS,M\$	2	1000	Unknown		02/07/2024 13:57	Finished	MS (5ppb), IWST-231228B,2>
33	N062938-014A,SAMF	3	1000	Unknown		02/07/2024 14:07	Finished	SAMP,10 mL
34	N062938-014AMS,M\$	4	1000	Unknown		02/07/2024 14:16	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	5	1000	Unknown		02/07/2024 14:26	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	6	1000	Unknown		02/07/2024 14:35	Finished	CCB R240103B
37	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 14:56	Finished	SAMP,2>10 mL
38	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 15:08	Finished	MS (5ppb), IWST-231228B,2>
39	N062938-004AMSD,N	3	1000	Unknown		02/07/2024 15:18	Finished	MSD (5ppb), IWST-231228B,2
40	N062938-004ADUP,D	4	1000	Unknown		02/07/2024 15:27	Finished	DUP,2>10 mL
41	N062938-015A,SAMF	5	1000	Unknown		02/07/2024 15:36	Finished	SAMP,10 mL
42	N062938-015AMS,M\$	6	1000	Unknown		02/07/2024 15:46	Finished	MS (5ppb), IWST-231228B,10r
43	N062938-010A,SAMF	7	1000	Unknown		02/07/2024 15:55	Finished	SAMP,10 mL
44	N062938-010AMS,M\$	8	1000	Unknown		02/07/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
45	N062938-012A,SAMF	9	1000	Unknown		02/07/2024 16:14	Finished	SAMP,10 mL
46	N062938-012AMS,M\$	10	1000	Unknown		02/07/2024 16:24	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	11	1000	Unknown		02/07/2024 16:33	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	12	1000	Unknown		02/07/2024 16:43	Finished	CCB R240103B
49	N062938-007A,SAMF	13	1000	Unknown		02/07/2024 16:52	Finished	SAMP,10 mL
50	N062938-007AMS,M\$	14	1000	Unknown		02/07/2024 17:02	Finished	MS (1ppb), IWST-231228B,10r
51	N062938-013A,SAMF	15	1000	Unknown		02/07/2024 17:11	Finished	SAMP,10 mL
52	N062938-013AMS,M\$	16	1000	Unknown		02/07/2024 17:21	Finished	MS (1ppb), IWST-231228B,10r
53	N062938-018A,SAMF	17	1000	Unknown		02/07/2024 17:30	Finished	SAMP,10 mL
54	N062938-018AMS,M\$	18	1000	Unknown		02/07/2024 17:40	Finished	MS (1ppb), IWST-231228B,10r
55	N062938-009A,SAMF	19	1000	Unknown		02/07/2024 17:49	Finished	SAMP,10 mL
56	N062938-009AMS,M\$	20	1000	Unknown		02/07/2024 17:59	Finished	MS (1ppb), IWST-231228B,10r
57	N062938-011A,SAMF	21	1000	Unknown		02/07/2024 18:08	Finished	SAMP,10 mL
58	N062938-011AMS,M\$	22	1000	Unknown		02/07/2024 18:18	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	23	1000	Unknown		02/07/2024 18:27	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	24	1000	Unknown		02/07/2024 18:36	Finished	CCB R240103B

61	N062938-019A,SAMF	25	1000	Unknown	02/07/2024 18:46	Finished	SAMP,10 mL
62	N062938-019AMS,M\$	26	1000	Unknown	02/07/2024 18:55	Finished	MS (1ppb), IWST-231228B,10r
63	N062938-017A,SAMF	27	1000	Unknown	02/07/2024 19:05	Finished	SAMP,2>10 mL
64	N062938-017AMS,M\$	28	1000	Unknown	02/07/2024 19:14	Finished	MS (1ppb), IWST-231228B,2>
65	N062938-005A,SAMF	29	1000	Unknown	02/07/2024 19:24	Finished	SAMP,2>10 mL
66	N062938-005AMS,M\$	30	1000	Unknown	02/07/2024 19:33	Finished	MS (1ppb), IWST-231228B,2>
67	N062938-006A,SAMF	31	1000	Unknown	02/07/2024 19:46	Finished	SAMP,2>10 mL
68	N062938-006AMS,M\$	32	1000	Unknown	02/07/2024 19:56	Finished	MS (1ppb), IWST-231228B,2>
69	N062938-007A,SAMF	33	1000	Unknown	02/07/2024 20:05	Finished	SAMP,2>10 mL
70	N062938-007AMS,M\$	34	1000	Unknown	02/07/2024 20:14	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	35	1000	Unknown	02/07/2024 20:24	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	36	1000	Unknown	02/07/2024 20:33	Finished	CCB R240103B
73	N062911-002A,SAMF	37	1000	Unknown	02/07/2024 20:43	Finished	SAMP,10 mL
74	N062911-002AMS,M\$	38	1000	Unknown	02/07/2024 20:52	Finished	MS (1ppb), IWST-231228B,10r
75	N062938-016A,SAMF	39	1000	Unknown	02/07/2024 21:02	Finished	SAMP,0.5>10 mL
76	N062938-016AMS,M\$	40	1000	Unknown	02/07/2024 21:11	Finished	MS (5ppb), IWST-231228B,0.5
77	N062938-004AMSD,M	2	1000	Unknown	02/07/2024 21:53	Finished	MSD (5ppb), IWST-231228B,2
78	CCV-7,CCV,1,	1	1000	Unknown	02/07/2024 22:11	Finished	CCV @5ppb, IWST-231228A
79	CCB-7,CCB,1,	2	1000	Unknown	02/07/2024 22:22	Finished	CCB R240103B
80	N062938-014A,SAMF	3	1000	Unknown	02/07/2024 22:31	Finished	SAMP,10 mL
81	N062938-014AMS,M\$	4	1000	Unknown	02/07/2024 22:41	Finished	MS (1ppb), IWST-231228B,10r
82	N062938-015A,SAMF	5	1000	Unknown	02/07/2024 22:50	Finished	SAMP,1>10 mL
83	N062938-015AMS,M\$	6	1000	Unknown	02/07/2024 22:59	Finished	MS (5ppb), IWST-231228B,1>
84	N062938-009A,SAMF	7	1000	Unknown	02/07/2024 23:09	Finished	SAMP,10 mL
85	N062938-009AMS,M\$	8	1000	Unknown	02/07/2024 23:18	Finished	MS (1ppb), IWST-231228B,10r
86	CCV-8,CCV1,1,	9	1000	Unknown	02/07/2024 23:28	Finished	CCV @10ppb, IWST-231228A
87	CCB-8,CCB,1,	10	1000	Unknown	02/07/2024 23:37	Finished	CCB R240103B
88	BLANK	11	1000	Unknown	02/07/2024 23:47	Finished	BLANK
89	SHUTDOWN	12	1000	Unknown	02/07/2024 23:56	Finished	
90	Eluent: R240205A	13	1000	Unknown	n.a.	Finished	
91	PCR: R240205B	14	1000	Unknown	n.a.	Finished	



INJECTION LOG: 240221A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/21/24 9:16 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/21/24 9:30 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/21/24 9:39 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/21/24 9:49 AM	Reported
13	MB-R182773	MBLK	1	Hexavalent Chromium	02/21/24 9:58 AM	Reported
14	LCS-R182773	LCS	1	Hexavalent Chromium	02/21/24 10:08 AM	Reported
15	N063213-008A	SAMP	10	Hexavalent Chromium	02/21/24 10:17 AM	Reported
16	N063211-001A	SAMP	1	Hexavalent Chromium	02/21/24 10:27 AM	Reported
17	N063211-002A	SAMP	1	Hexavalent Chromium	02/21/24 10:36 AM	Reported
18	N063211-003A	SAMP	1	Hexavalent Chromium	02/21/24 10:46 AM	Reported
19	N063211-001AMS	MS	1	Hexavalent Chromium	02/21/24 10:55 AM	Reported
20	N063211-002AMS	MS	1	Hexavalent Chromium	02/21/24 11:04 AM	Reported
21	N063211-003AMS	MS	1	Hexavalent Chromium	02/21/24 11:14 AM	Reported
22	N063213-008AMS	MS	10	Hexavalent Chromium	02/21/24 11:23 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	02/21/24 11:33 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/21/24 11:42 AM	Reported
25	N063213-008AMSD	MSD	10	Hexavalent Chromium	02/21/24 11:52 AM	Reported
26	N063213-001A	SAMP	1	Hexavalent Chromium	02/21/24 12:01 PM	Not Reported
27	N063213-002A	SAMP	1	Hexavalent Chromium	02/21/24 12:11 PM	Reported
28	N063213-005A	SAMP	1	Hexavalent Chromium	02/21/24 12:20 PM	Reported
29	N063213-003A	SAMP	5	Hexavalent Chromium	02/21/24 12:30 PM	Not Reported
30	N063213-004A	SAMP	100	Hexavalent Chromium	02/21/24 12:39 PM	Reported
31	N063213-007A	SAMP	200	Hexavalent Chromium	02/21/24 12:52 PM	Reported
32	N063211-001ADUP	DUP	1	Hexavalent Chromium	02/21/24 1:03 PM	Reported
33	N063213-001AMS	MS	1	Hexavalent Chromium	02/21/24 1:12 PM	Not Reported
34	N063213-002AMS	MS	1	Hexavalent Chromium	02/21/24 1:21 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/21/24 1:31 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/21/24 1:40 PM	Reported
37	N063213-005AMS	MS	1	Hexavalent Chromium	02/21/24 1:50 PM	Reported
38	N063213-004AMS	MS	100	Hexavalent Chromium	02/21/24 1:59 PM	Reported
39	N063213-007AMS	MS	200	Hexavalent Chromium	02/21/24 2:09 PM	Reported
40	N063213-006A	SAMP	1	Hexavalent Chromium	02/21/24 2:18 PM	Not Reported
41	N063213-006AMS	MS	1	Hexavalent Chromium	02/21/24 2:28 PM	Not Reported
42	N063213-006A	SAMP	5	Hexavalent Chromium	02/21/24 2:37 PM	Reported

INJECTION LOG: 240221A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063213-006AMS	MS	5	Hexavalent Chromium	02/21/24 2:46 PM	Reported
44	N063213-009A	SAMP	1	Hexavalent Chromium	02/21/24 2:56 PM	Reported
45	N063213-009AMS	MS	1	Hexavalent Chromium	02/21/24 3:05 PM	Reported
46	N063213-003AMS	MS	5	Hexavalent Chromium	02/21/24 3:15 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/21/24 3:24 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/21/24 3:34 PM	Reported
49	N063214-007A	SAMP	1	Hexavalent Chromium	02/21/24 3:43 PM	Not Reported
50	N063214-007AMS	MS	1	Hexavalent Chromium	02/21/24 3:53 PM	Not Reported
51	N063214-001A	SAMP	1	Hexavalent Chromium	02/21/24 4:02 PM	Not Reported
52	N063214-001AMS	MS	1	Hexavalent Chromium	02/21/24 4:52 PM	Not Reported
53	N063214-003A	SAMP	1	Hexavalent Chromium	02/21/24 5:05 PM	Not Reported
54	N063214-003AMS	MS	1	Hexavalent Chromium	02/21/24 5:15 PM	Not Reported
55	N062911-004A	SAMP	5	Hexavalent Chromium	02/21/24 5:24 PM	Reported
N062911-004AMS 56	N063214-004AMS	MS	5	Hexavalent Chromium	02/21/24 5:34 PM	Reported
57	N063214-002A	SAMP	1	Hexavalent Chromium	02/21/24 5:43 PM	Reported
58	N063214-002AMS	MS	1	Hexavalent Chromium	02/21/24 5:52 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/21/24 6:02 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/21/24 6:11 PM	Reported
61	N063214-004A	SAMP	1	Hexavalent Chromium	02/21/24 6:21 PM	Reported
62	N063214-004AMS	MS	1	Hexavalent Chromium	02/21/24 6:30 PM	Reported
63	N063214-006A	SAMP	1	Hexavalent Chromium	02/21/24 6:40 PM	Reported
64	N063214-006AMS	MS	1	Hexavalent Chromium	02/21/24 6:49 PM	Reported
65	N063214-008A	SAMP	1	Hexavalent Chromium	02/21/24 6:59 PM	Reported
66	N063214-008AMS	MS	1	Hexavalent Chromium	02/21/24 7:08 PM	Reported
67	N063214-001A	SAMP	5	Hexavalent Chromium	02/21/24 7:18 PM	Reported
68	N063214-001AMS	MS	5	Hexavalent Chromium	02/21/24 7:27 PM	Reported
69	N063214-003A	SAMP	5	Hexavalent Chromium	02/21/24 7:37 PM	Reported
70	N063214-003AMS	MS	5	Hexavalent Chromium	02/21/24 7:46 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/21/24 7:55 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/21/24 8:05 PM	Reported
73	N063214-005A	SAMP	5	Hexavalent Chromium	02/21/24 8:14 PM	Reported
74	N063214-005AMS	MS	5	Hexavalent Chromium	02/21/24 8:24 PM	Reported
75	N063213-001AMS	MS	5	Hexavalent Chromium	02/21/24 8:33 PM	Reported
76	N063213-001A	SAMP	5	Hexavalent Chromium	02/21/24 8:43 PM	Reported
77	N063213-003AMS	MS	100	Hexavalent Chromium	02/21/24 8:52 PM	Reported
78	N063213-003A	SAMP	100	Hexavalent Chromium	02/21/24 9:02 PM	Reported
79	N063213-002AMS	MS	1	Hexavalent Chromium	02/21/24 9:11 PM	Reported
80	N063214-005A	SAMP	1	Hexavalent Chromium	02/21/24 9:21 PM	Not Reported
81	N063214-005AMS	MS	1	Hexavalent Chromium	02/21/24 9:30 PM	Not Reported
82	CCV-7	CCV	1	Hexavalent Chromium	02/21/24 9:39 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	02/21/24 9:49 PM	Reported
84	BLANK	BLANK	1	Hexavalent Chromium	02/21/24 9:58 PM	Not Reported

JRB 2/27/2024
for RBA


Injection Log Summary

Sequence Details

Name:	IC-07_240221A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	22/Feb/24 12:29:45
No. of Injections:	87	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/21/2024 09:16	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/21/2024 09:30	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/21/2024 09:39	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/21/2024 09:49	Finished	CCB R240129C
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/21/2024 09:58	Finished	MS R240129C
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/21/2024 10:08	Finished	LCS @5ppb, IWST-231228B
15	N063213-008A,SAMP	7	1000	Unknown		02/21/2024 10:17	Finished	SAMP,1>10 mL
16	N063211-001A,SAMP	8	1000	Unknown		02/21/2024 10:27	Finished	SAMP,10 mL
17	N063211-002A,SAMP	9	1000	Unknown		02/21/2024 10:36	Finished	SAMP,10 mL
18	N063211-003A,SAMP	10	1000	Unknown		02/21/2024 10:46	Finished	SAMP,10 mL
19	N063211-001AMS,MS	11	1000	Unknown		02/21/2024 10:55	Finished	MS (1ppb), IWST-231228B,10r
20	N063211-002AMS,MS	12	1000	Unknown		02/21/2024 11:04	Finished	MS (1ppb), IWST-231228B,10r
21	N063211-003AMS,MS	13	1000	Unknown		02/21/2024 11:14	Finished	MS (1ppb), IWST-231228B,10r
22	N063213-008AMS,MS	14	1000	Unknown		02/21/2024 11:23	Finished	MS (5ppb), IWST-231228B,1>
23	CCV-2,CCV1,1,	15	1000	Unknown		02/21/2024 11:33	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	16	1000	Unknown		02/21/2024 11:42	Finished	CCB R240129C
25	N063213-008AMSD,MS	17	1000	Unknown		02/21/2024 11:52	Finished	MSD (5ppb), IWST-231228B,1
26	N063213-001A,SAMP	18	1000	Unknown		02/21/2024 12:01	Finished	SAMP,10 mL
27	N063213-002A,SAMP	19	1000	Unknown		02/21/2024 12:11	Finished	SAMP,10 mL
28	N063213-005A,SAMP	20	1000	Unknown		02/21/2024 12:20	Finished	SAMP,10 mL
29	N063213-003A,SAMP	21	1000	Unknown		02/21/2024 12:30	Finished	SAMP,2>10 mL
30	N063213-004A,SAMP	22	1000	Unknown		02/21/2024 12:39	Finished	SAMP,0.1>10 mL
31	N063213-007A,SAMP	1	1000	Unknown		02/21/2024 12:52	Finished	SAMP,0.05>10 mL
32	N063211-001ADUP,C	2	1000	Unknown		02/21/2024 13:03	Finished	DUP,10 mL
33	N063213-001AMS,MS	3	1000	Unknown		02/21/2024 13:12	Finished	MS (5ppb), IWST-231228B,10r
34	N063213-002AMS,MS	4	1000	Unknown		02/21/2024 13:21	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	5	1000	Unknown		02/21/2024 13:31	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	6	1000	Unknown		02/21/2024 13:40	Finished	CCB R240129C
37	N063213-005AMS,MS	7	1000	Unknown		02/21/2024 13:50	Finished	MS (1ppb), IWST-231228B,10r
38	N063213-004AMS,MS	8	1000	Unknown		02/21/2024 13:59	Finished	MS (5ppb), IWST-231228B,0.1
39	N063213-007AMS,MS	9	1000	Unknown		02/21/2024 14:09	Finished	MS (5ppb), IWST-231228B,0.0
40	N063213-006A,SAMP	10	1000	Unknown		02/21/2024 14:18	Finished	SAMP,10 mL
41	N063213-006AMS,MS	11	1000	Unknown		02/21/2024 14:28	Finished	MS (1ppb), IWST-231228B,10r
42	N063213-006A,SAMP	12	1000	Unknown		02/21/2024 14:37	Finished	SAMP,2>10 mL
43	N063213-006AMS,MS	13	1000	Unknown		02/21/2024 14:46	Finished	MS (1ppb), IWST-231228B,2>
44	N063213-009A,SAMP	14	1000	Unknown		02/21/2024 14:56	Finished	SAMP,10 mL
45	N063213-009AMS,MS	15	1000	Unknown		02/21/2024 15:05	Finished	MS (1ppb), IWST-231228B,10r
46	N063213-003AMS,MS	16	1000	Unknown		02/21/2024 15:15	Finished	MS (5ppb), IWST-231228B,2>
47	CCV-4,CCV1,1,	17	1000	Unknown		02/21/2024 15:24	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	18	1000	Unknown		02/21/2024 15:34	Finished	CCB R240129C
49	N063214-007A,SAMP	19	1000	Unknown		02/21/2024 15:43	Finished	SAMP,10 mL
50	N063214-007AMS,MS	20	1000	Unknown		02/21/2024 15:53	Finished	MS (1ppb), IWST-231228B,10r
51	N063214-001A,SAMP	21	1000	Unknown		02/21/2024 16:02	Finished	SAMP,10 mL
52	N063214-001AMS,MS	1	1000	Unknown		02/21/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
53	N063214-003A,SAMP	2	1000	Unknown		02/21/2024 17:05	Finished	SAMP,10 mL
54	N063214-003AMS,MS	3	1000	Unknown		02/21/2024 17:15	Finished	MS (1ppb), IWST-231228B,10r
55	N062911-004A,SAMP	4	1000	Unknown		02/21/2024 17:24	Finished	SAMP,2>10 mL
56	N063214-004AMS,MS	5	1000	Unknown		02/21/2024 17:34	Finished	MS (1ppb), IWST-231228B,2>
57	N063214-002A,SAMP	6	1000	Unknown		02/21/2024 17:43	Finished	SAMP,10 mL
58	N063214-002AMS,MS	7	1000	Unknown		02/21/2024 17:52	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	8	1000	Unknown		02/21/2024 18:02	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	9	1000	Unknown		02/21/2024 18:11	Finished	CCB R240129C

 2/27/2024
 for RBA

61	N063214-004A,SAMP	10	1000	Unknown	02/21/2024 18:21	Finished	SAMP,10 mL
62	N063214-004AMS,MS	11	1000	Unknown	02/21/2024 18:30	Finished	MS (1ppb), IWST-231228B,10r
63	N063214-006A,SAMP	12	1000	Unknown	02/21/2024 18:40	Finished	SAMP,10 mL
64	N063214-006AMS,MS	13	1000	Unknown	02/21/2024 18:49	Finished	MS (1ppb), IWST-231228B,10r
65	N063214-008A,SAMP	14	1000	Unknown	02/21/2024 18:59	Finished	SAMP,10 mL
66	N063214-008AMS,MS	15	1000	Unknown	02/21/2024 19:08	Finished	MS (1ppb), IWST-231228B,10r
67	N063214-001A,SAMP	16	1000	Unknown	02/21/2024 19:18	Finished	SAMP,2>10 mL
68	N063214-001AMS,MS	17	1000	Unknown	02/21/2024 19:27	Finished	MS (1ppb), IWST-231228B,2>
69	N063214-003A,SAMP	18	1000	Unknown	02/21/2024 19:37	Finished	SAMP,2>10 mL
70	N063214-003AMS,MS	19	1000	Unknown	02/21/2024 19:46	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	20	1000	Unknown	02/21/2024 19:55	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	21	1000	Unknown	02/21/2024 20:05	Finished	CCB R240129C
73	N063214-005A,SAMP	22	1000	Unknown	02/21/2024 20:14	Finished	SAMP,2>10 mL
74	N063214-005AMS,MS	23	1000	Unknown	02/21/2024 20:24	Finished	MS (1ppb), IWST-231228B,2>
75	N063213-001AMS,MS	24	1000	Unknown	02/21/2024 20:33	Finished	MS (5ppb), IWST-231228B,2>
76	N063213-001A,SAMP	25	1000	Unknown	02/21/2024 20:43	Finished	SAMP,2>10 mL
77	N063213-003AMS,MS	26	1000	Unknown	02/21/2024 20:52	Finished	MS (5ppb), IWST-231228B,0.1
78	N063213-003A,SAMP	27	1000	Unknown	02/21/2024 21:02	Finished	SAMP,0.1>10 mL
79	N063213-002AMS,MS	28	1000	Unknown	02/21/2024 21:11	Finished	MS (5ppb), IWST-231228B,10r
80	N063214-005A,SAMP	29	1000	Unknown	02/21/2024 21:21	Finished	SAMP,10 mL
81	N063214-005AMS,MS	30	1000	Unknown	02/21/2024 21:30	Finished	MS (1ppb), IWST-231228B,10r
82	CCV-7,CCV,1,	31	1000	Unknown	02/21/2024 21:39	Finished	CCV @5ppb, IWST-231228A
83	CCB-7,CCB,1,	32	1000	Unknown	02/21/2024 21:49	Finished	CCB R240129C
84	BLANK	33	1000	Unknown	02/21/2024 21:58	Finished	BLANK
85	SHUTDOWN R240221A	34	1000	Unknown	02/21/2024 22:08	Finished	
86	Eluent: R240220A	35	1000	Unknown	n.a.	Finished	
87	PCR: R240220B	36	1000	Unknown	n.a.	Finished	

R240221B

M/Rocha 2/29/2024
for RBA

SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 2/6/24
 Time Prepared: 0918H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14325
 Diphenylcarbazide: 15209
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240103B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062911-1A	9.40	-	-250ml	-250ml		
2)	2A	9.31	-				
3)	3A	9.24	-				
4)	4A	9.48	-				
5)	5A	9.70	-				
6)	6A	9.26	-				
7)	7A	9.44	-				
8)	8A	9.44	-				
9)	9A	9.51	-				
10)	10A	9.71	-				
11)	11A	9.40	-				
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 2/7/24
 Time Prepared: 0958H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14324
 Diphenylcarbazide: 15209
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240103B

C-107A
 N2428K

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062918-1A	9.42	-	-250ml	-250ml		
2)	2A	9.34	-				
3)	3A	9.52	-				
4)	4A	9.38	-				
5)	5A	8.84	9.38			+ 5	
6)	6A	8.05	9.41			+ 6	
7)	7A	8.91	9.43			+ 4	
8)	8A	8.68	9.44			+ 6	
9)	9A	9.68	-				
10)	10A	9.32	-				
11)	11A	9.64	-				
12)	12A	9.29	-				
13)	13A	9.41	-				
14)	14A	9.48	-				
15)	15A	9.54	-				
	16A	9.50	-				

Logbook No. 24



ASSET LABORATORIES
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV000022
 ORELAP Cert 4046 (EPA TO-15 & TO-17)

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 2/5/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0427	0.2063	1.0639	2.1157	3.2270	4.3227	0.9999
Measured, in ug/L	0.1985	0.9592	4.9461	9.8357	15.0023	20.0959	0.9999
Relative Error (%RE)		-4%		-2%			

	Stock	Working
Standard Concentration:	1000000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{ (B - A) / A \} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ICV	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5672804						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.20	5.000	0	96.7	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5672805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	90.1	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCV	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672807						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.990	0.20	5.000	0	99.8	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672808						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.196	0.20	0.2000	0	97.9	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZ	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.883	0.20	10.00	0	98.8	95	105				
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Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCV	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.903	0.20	5.000	0	98.1	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ZZZZZZ	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.863	0.20	10.00	0	98.6	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCV	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672843							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.906	0.20	5.000	0	98.1	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ICV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5677936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.20	5.000	0	96.7	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5677937							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	90.1	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.904	0.20	5.000	0	98.1	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677940							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	89.8	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677950							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.811	0.20	10.00	0	98.1	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677954							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.893	0.20	5.000	0	97.9	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677963							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.984	0.20	10.00	0	99.8	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677973							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.816	0.20	5.000	0	96.3	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.806	0.20	10.00	0	98.1	95	105
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.932	0.20	5.000	0	98.6	95	105
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.921	0.20	10.00	0	99.2	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ICV	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5704442							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.20	5.000	0	96.7	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5704443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	90.1	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: CCV	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704445							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.942	0.20	5.000	0	98.8	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704446							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.193	0.20	0.2000	0	96.5	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704458							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.938	0.20	10.00	0	99.4	95	105				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: CCV	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.977	0.20	5.000	0	99.5	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.893	0.20	10.00	0	98.9	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: CCV	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.863	0.20	5.000	0	97.3	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: ZZZZZ	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.764	0.20	10.00	0	97.6	95	105
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773						
Client ID: CCV	Batch ID: R182773	TestNo: EPA 218.6		Analysis Date: 2/21/2024	SeqNo: 5704502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.859	0.20	5.000	0	97.2	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL • TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: ICB	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5672806							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCB	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672809							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCB	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672818							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCB	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672828							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCB	Batch ID: R181246	TestNo: EPA 218.6	Analysis Date: 2/6/2024	SeqNo: 5672838							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181246						
Client ID: CCB	Batch ID: R181246	TestNo: EPA 218.6		Analysis Date: 2/6/2024	SeqNo: 5672844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ICB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5677938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677955						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677974	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677984	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677991	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677999	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: ICB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5704444	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704447	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704459	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704467	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704476	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704482	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704494	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 182773
Client ID: CCB	Batch ID: R182773	TestNo: EPA 218.6	Analysis Date: 2/21/2024	SeqNo: 5704503	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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NEVADA
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/6/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.040	

Average 4.042
Actual RT Window 3.962 - 4.122
Applied RT Window 3.842 - 4.242

MB-R181246	N.A.	N.A.
LCS-R181246	4.040	PASS
N062911-001A	3.848	PASS
N062911-001AMS	3.856	PASS
N062911-004A	4.023	PASS
N062911-004AMS	4.006	PASS
N062911-007A	3.890	PASS
N062911-007AMS	3.890	PASS
N062911-009A	3.881	PASS
N062911-009A	3.873	PASS
N062911-003A	N.A.	N.A.
N062911-003AMS	4.015	PASS
N062911-003AMSD	4.006	PASS
N062911-002A	N.A.	N.A.
N062911-002AMS	3.856	PASS
N062911-006A	N.A.	N.A.
N062911-006AMS	3.873	PASS
N062911-005A	N.A.	N.A.
N062911-005AMS	4.048	PASS
N062911-010A	N.A.	N.A.
N062911-010AMS	4.040	PASS
N062911-011A	3.848	PASS
N062911-011AMS	3.856	PASS

Reviewed by:

MRecha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/6/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.040	

Average 4.042
Actual RT Window 3.962 - 4.122
Applied RT Window 3.842 - 4.242

N062911-002A	N.A.	N.A.
N062911-002AMS	4.023	PASS
N062911-006A	N.A.	N.A.
N062911-006AMS	4.015	PASS
N062911-008A	3.873	PASS
N062911-008AMS	3.873	PASS
N062911-008A	N.A.	N.A.
N062911-008AMS	4.015	PASS
N062911-001ADUP	3.856	PASS
N062911-004AMS	4.006	PASS

Reviewed by:

dRecha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

MB-R181320	N.A.	N.A.
LCS-R181320	4.040	PASS
N062938-004A	3.865	PASS
N062938-004AMS	3.865	PASS
N062938-001A	3.848	PASS
N062938-001AMS	3.848	PASS
N062938-002A	4.015	PASS
N062938-002AMS	4.023	PASS
N062938-008A	N.A.	N.A.
N062938-008AMS	3.873	PASS
N062938-003A	4.015	PASS
N062938-003AMS	4.015	PASS
N062938-005A	N.A.	N.A.
N062938-006A	N.A.	N.A.
N062938-016A	4.006	PASS
N062938-016AMS	3.998	PASS
N062938-014A	4.023	PASS
N062938-014AMS	4.031	PASS
N062938-004A	4.023	PASS
N062938-004AMS	4.015	PASS

Reviewed by:

d/Rocha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

N062938-004AMSD	4.015	PASS
N062938-004ADUP	4.023	PASS
N062938-015A	3.923	PASS
N062938-015AMS	3.923	PASS
N062938-010A	4.040	PASS
N062938-010AMS	4.031	PASS
N062938-012A	N.A.	N.A.
N062938-012AMS	4.040	PASS
N062938-007A	N.A.	N.A.
N062938-007AMS	3.865	PASS
N062938-013A	N.A.	N.A.
N062938-013AMS	4.048	PASS
N062938-018A	N.A.	N.A.
N062938-018AMS	4.031	PASS
N062938-009A	N.A.	N.A.
N062938-009AMS	4.056	PASS
N062938-011A	N.A.	N.A.
N062938-011AMS	4.056	PASS
N062938-019A	N.A.	N.A.
N062938-019AMS	4.048	PASS

Reviewed by:

d/Rocha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

N062938-017A	N.A.	N.A.
N062938-017AMS	4.023	PASS
N062938-005A	N.A.	N.A.
N062938-005AMS	4.006	PASS
N062938-006A	N.A.	N.A.
N062938-006AMS	4.015	PASS
N062938-007A	N.A.	N.A.
N062938-007AMS	4.015	PASS
N062911-002A	N.A.	N.A.
N062911-002AMS	3.848	PASS
N062938-016A	4.031	PASS
N062938-016AMS	4.031	PASS
N062938-004AMSD	4.015	PASS
N062938-014A	4.023	PASS
N062938-014AMS	4.023	PASS
N062938-015A	4.031	PASS
N062938-015AMS	4.031	PASS
N062938-009A	N.A.	N.A.
N062938-009AMS	4.048	PASS

Reviewed by:

d/Rocha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/21/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.065	
CCV-2	4.056	
CCV-3	4.056	
CCV-4	4.056	
CCV-5	4.056	
CCV-6	4.065	
CCV-7	4.056	

Average 4.059

Actual RT Window 3.979 - 4.139

Applied RT Window 3.859 - 4.259

MB-R182773	N.A.	N.A.
LCS-R182773	4.065	PASS
N063213-008A	4.023	PASS
N063211-001A	3.923	PASS
N063211-002A	3.923	PASS
N063211-003A	3.906	PASS
N063211-001AMS	3.915	PASS
N063211-002AMS	3.915	PASS
N063211-003AMS	3.906	PASS
N063213-008AMS	4.031	PASS
N063213-008AMSD	4.023	PASS
N063213-001A	4.048	PASS
N063213-002A	3.898	PASS
N063213-005A	3.931	PASS
N063213-003A	4.031	PASS
N063213-004A	4.056	PASS
N063213-007A	4.056	PASS
N063211-001ADUP	3.923	PASS
N063213-001AMS	4.040	PASS
N063213-002AMS	3.898	PASS
N063213-005AMS	3.940	PASS

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/21/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.065	
CCV-2	4.056	
CCV-3	4.056	
CCV-4	4.056	
CCV-5	4.056	
CCV-6	4.065	
CCV-7	4.056	

Average 4.059
Actual RT Window 3.979 - 4.139
Applied RT Window 3.859 - 4.259

N063213-004AMS	4.056	PASS
N063213-007AMS	4.056	PASS
N063213-006A	N.A.	N.A.
N063213-006A	N.A.	N.A.
N063213-006AMS	4.015	PASS
N063213-009A	N.A.	N.A.
N063213-009AMS	4.056	PASS
N063213-003AMS	4.031	PASS
N063214-007A	N.A.	N.A.
N063214-007AMS	N.A.	N.A.
N063214-001A	N.A.	N.A.
N063214-003A	N.A.	N.A.
N063214-003AMS	N.A.	N.A.
N062911-004A	4.031	PASS
N063911-004AMS	4.015	PASS
N063214-002A	N.A.	N.A.
N063214-002AMS	4.048	PASS
N063214-004A	N.A.	N.A.
N063214-004AMS	4.056	PASS
N063214-006A	N.A.	N.A.
N063214-006AMS	4.056	PASS

Reviewed by:

d/Rocha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/21/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.065	
CCV-2	4.056	
CCV-3	4.056	
CCV-4	4.056	
CCV-5	4.056	
CCV-6	4.065	
CCV-7	4.056	

Average 4.059

Actual RT Window 3.979 - 4.139

Applied RT Window 3.859 - 4.259

N063214-008A	N.A.	N.A.
N063214-008AMS	4.048	PASS
N063214-001A	N.A.	N.A.
N063214-001AMS	4.006	PASS
N063214-003A	N.A.	N.A.
N063214-003AMS	3.965	PASS
N063214-005A	N.A.	N.A.
N063214-005AMS	3.840	FAIL
N063213-001AMS	4.048	PASS
N063213-001A	4.048	PASS
N063213-003AMS	4.056	PASS
N063213-003A	4.056	PASS
N063213-002AMS	3.898	PASS
N063214-005A	N.A.	N.A.
N063214-005AMS	N.A.	N.A.

Reviewed by:

Note: RT failed in N063214-005AMS, for re-run.

d/Recha 2/27/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary


Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1,	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

Reviewed by:

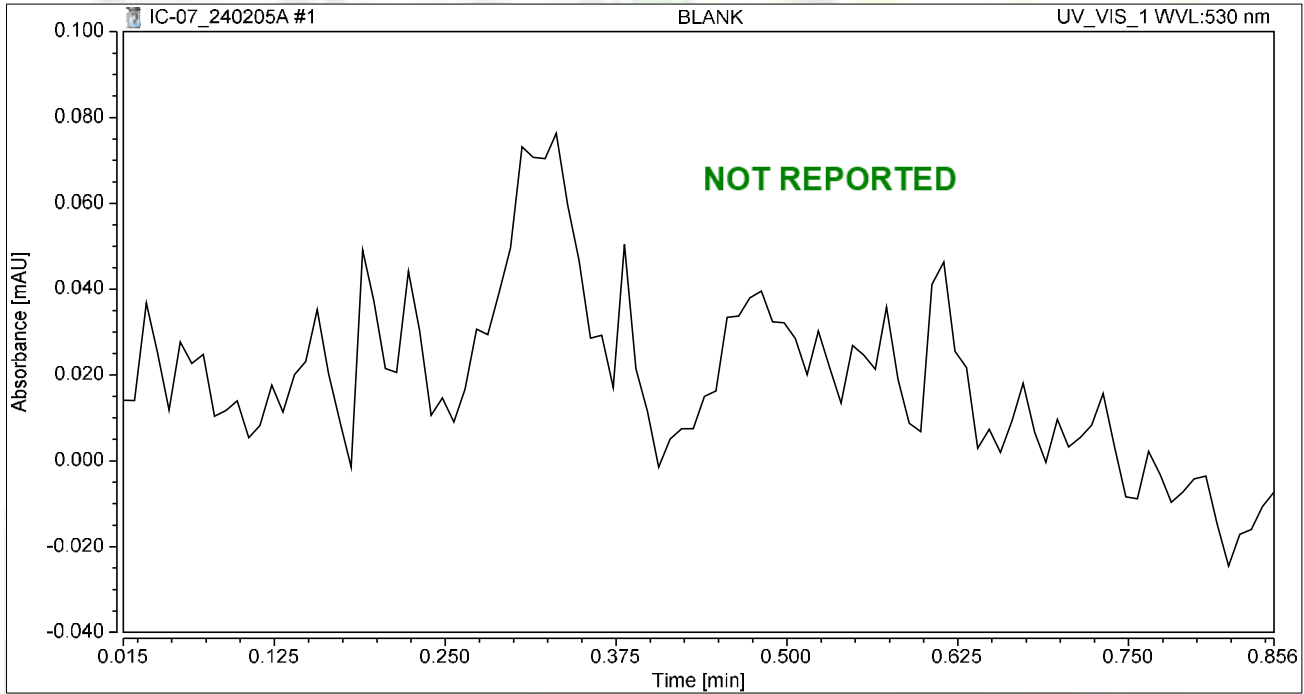
 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.84
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 11:59	Sample Weight:	1.0000

Chromatogram



Integration Results

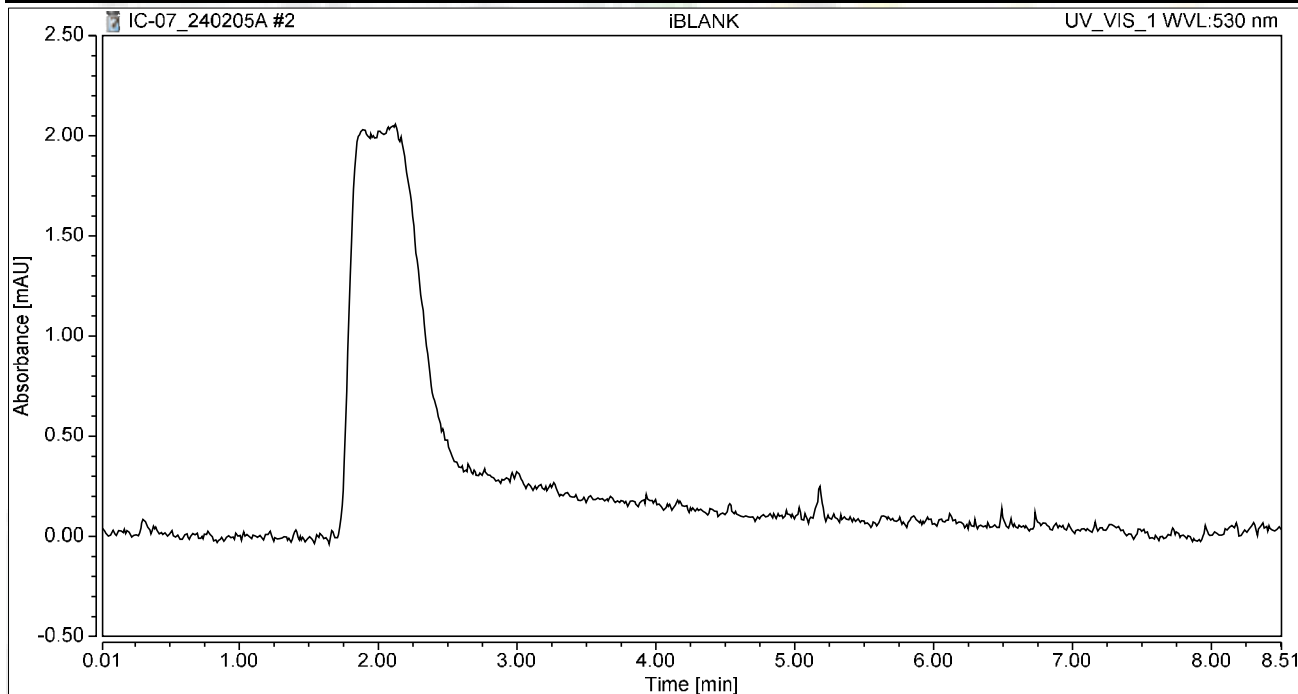
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

jrb

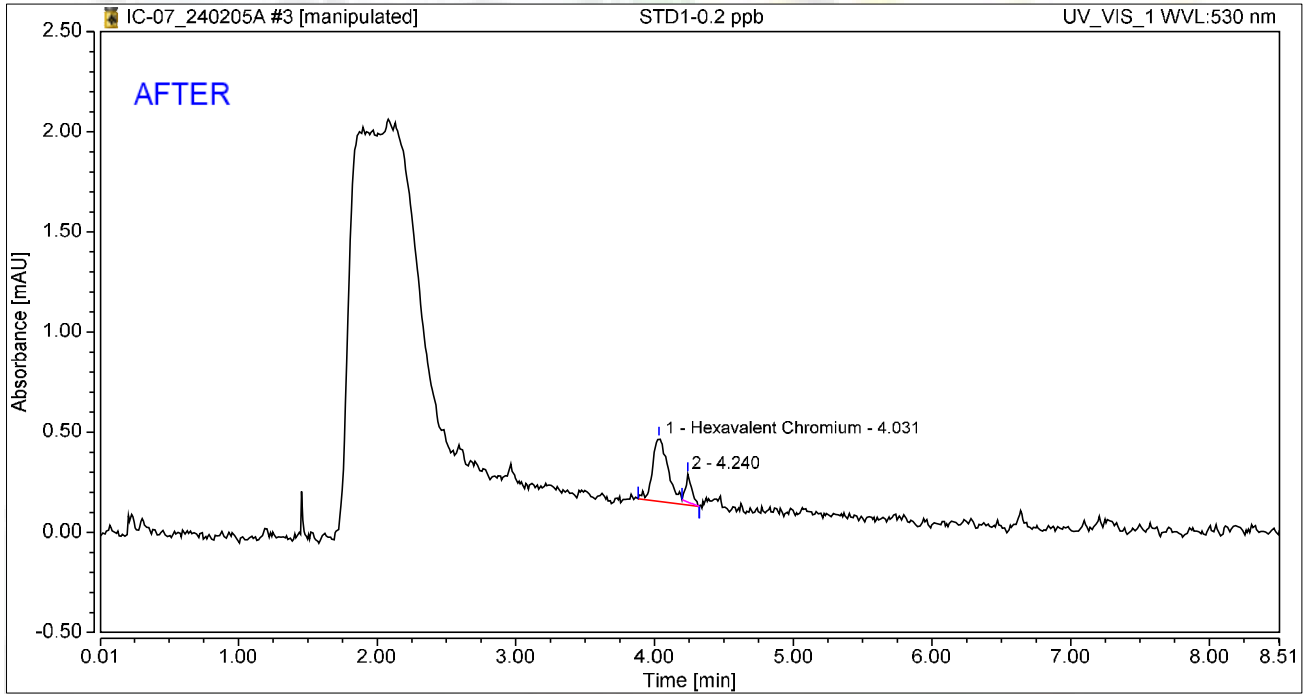
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.043	0.313	85.65	69.19	0.1985
2		4.240	0.007	0.139	14.35	30.81	n.a.
Total:			0.050	0.452	100.00	100.00	

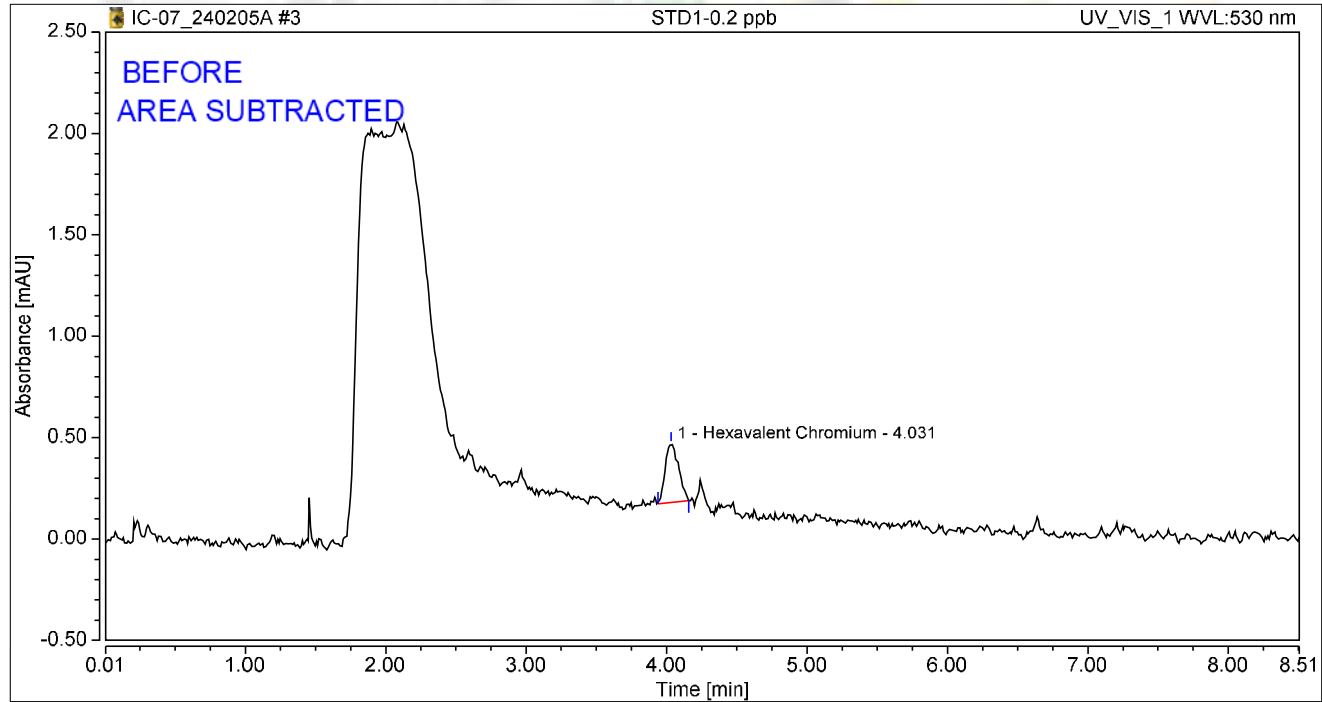
Reviewed by:

JRB 2/19/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD1-0.2 ppb	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	01	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight: 1.0000

Chromatogram



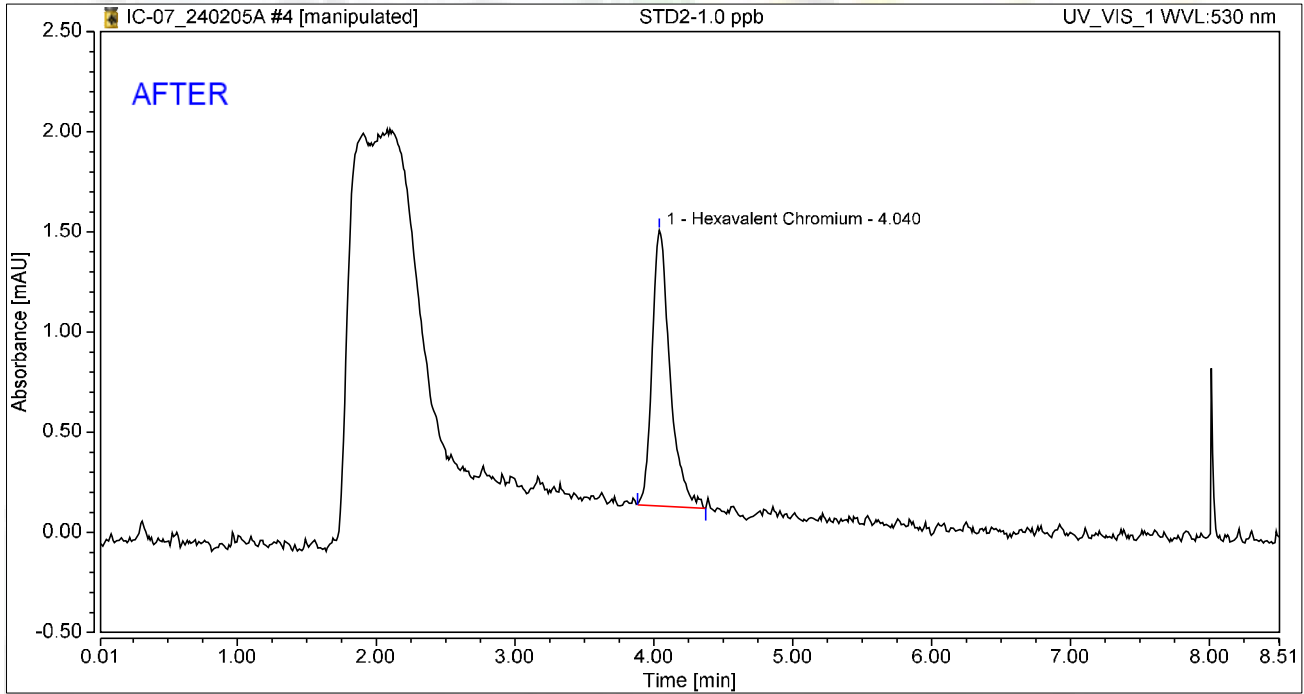
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.032	0.288	100.00	100.00	0.1502
Total:			0.032	0.288	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.206	1.377	100.00	100.00	0.9592
Total:			0.206	1.377	100.00	100.00	

Reviewed by:

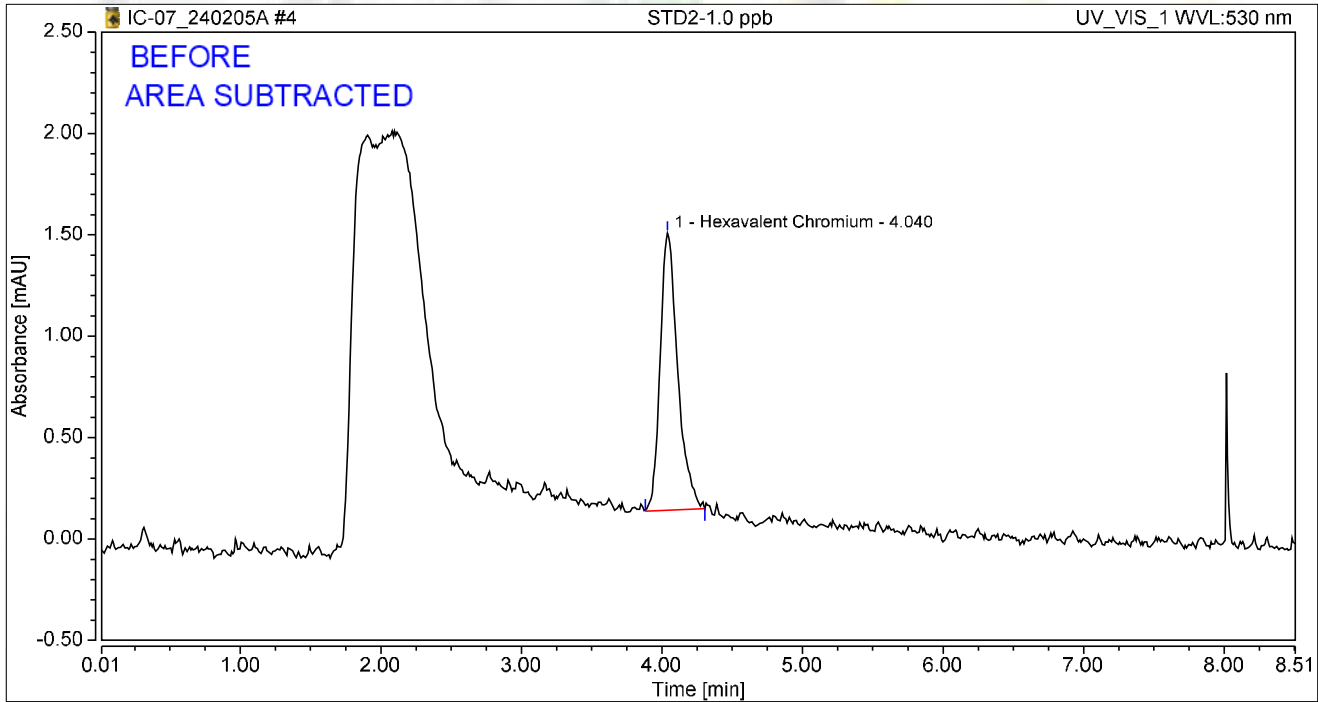
JRB 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight:	1.0000

Chromatogram



Integration Results

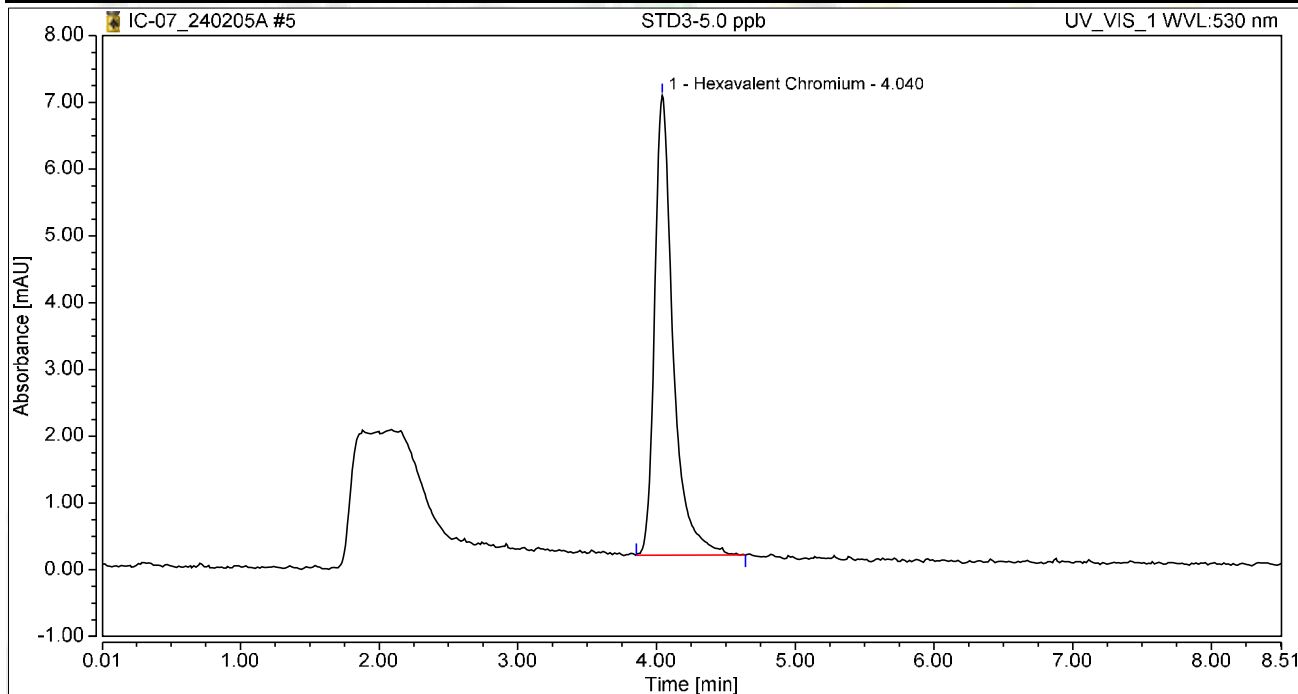
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.198	1.367	100.00	100.00	0.9223
Total:			0.198	1.367	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:38	Sample Weight:	1.0000

Chromatogram



Integration Results

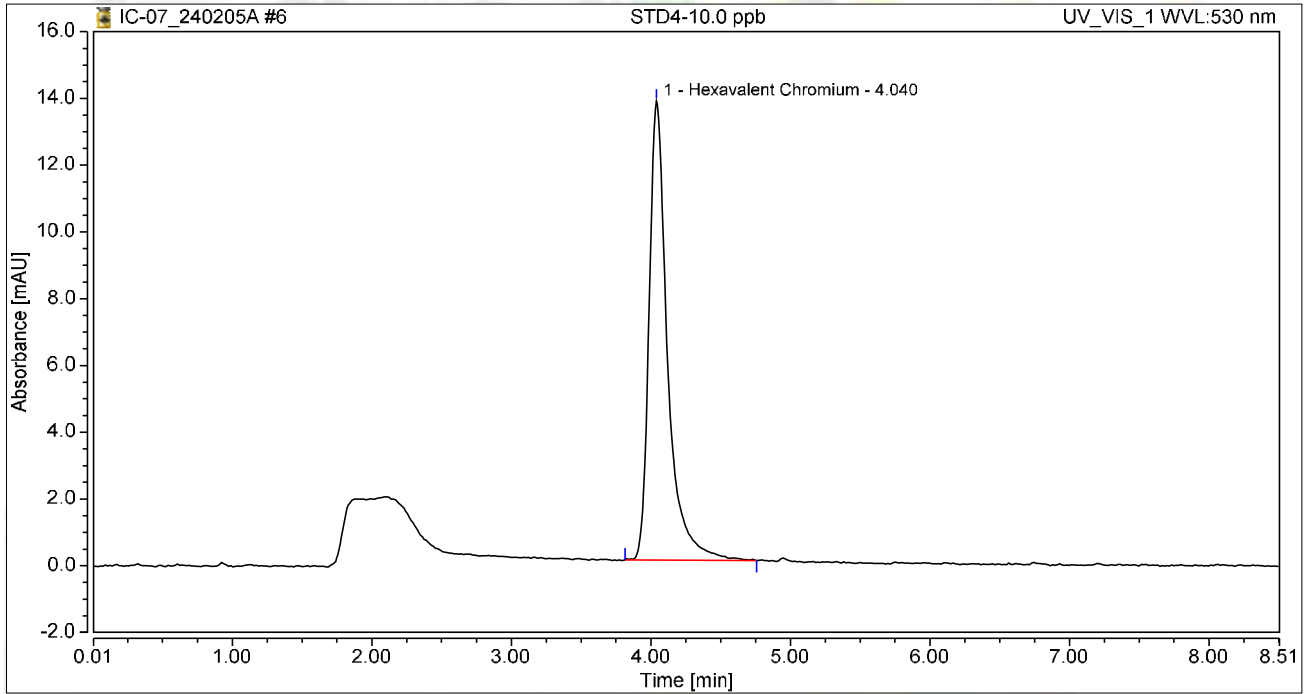
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.064	6.885	100.00	100.00	4.9461
Total:			1.064	6.885	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:47	Sample Weight:	1.0000

Chromatogram



Integration Results

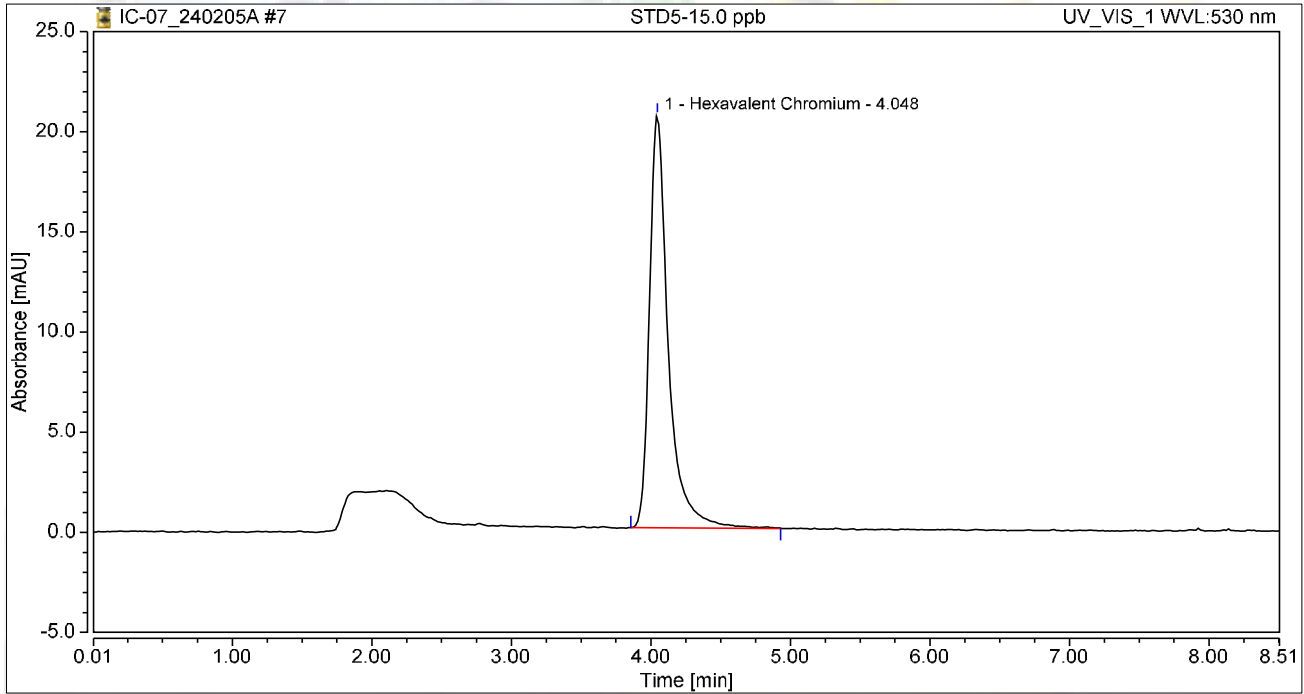
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.116	13.748	100.00	100.00	9.8357
Total:			2.116	13.748	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:57	Sample Weight:	1.0000

Chromatogram



Integration Results

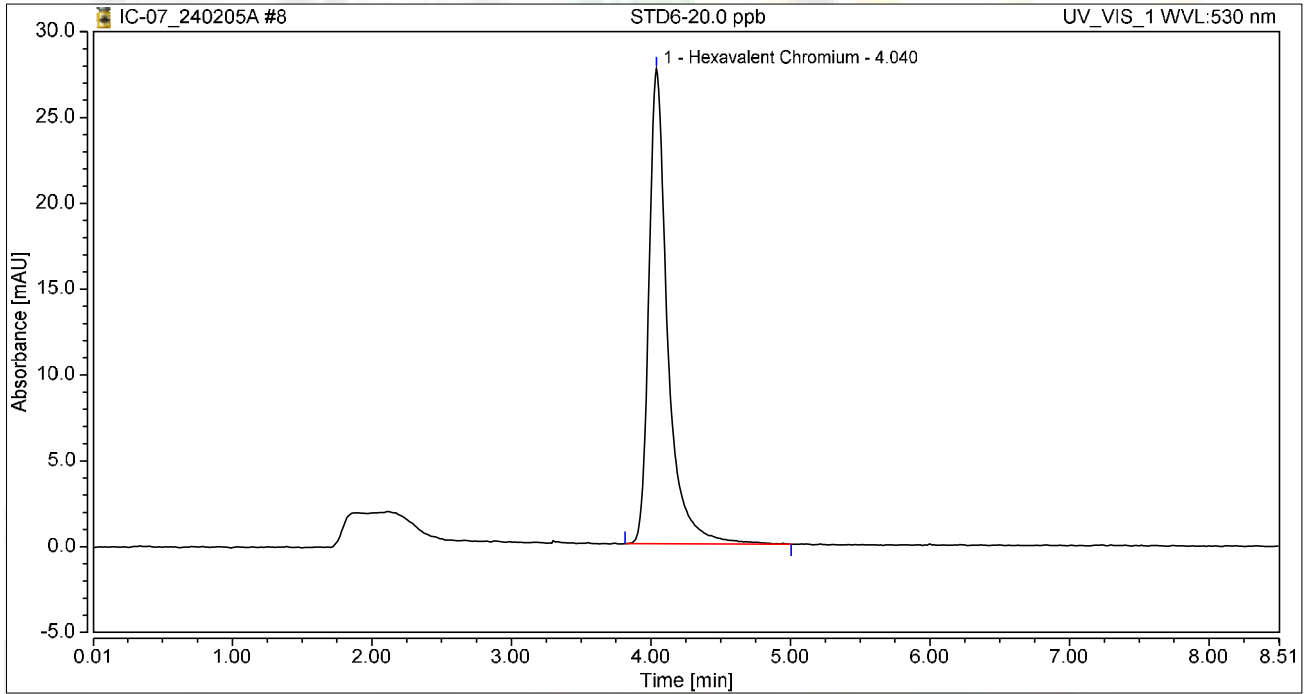
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	3.227	20.605	100.00	100.00	15.0023
Total:			3.227	20.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:08	Sample Weight:	1.0000

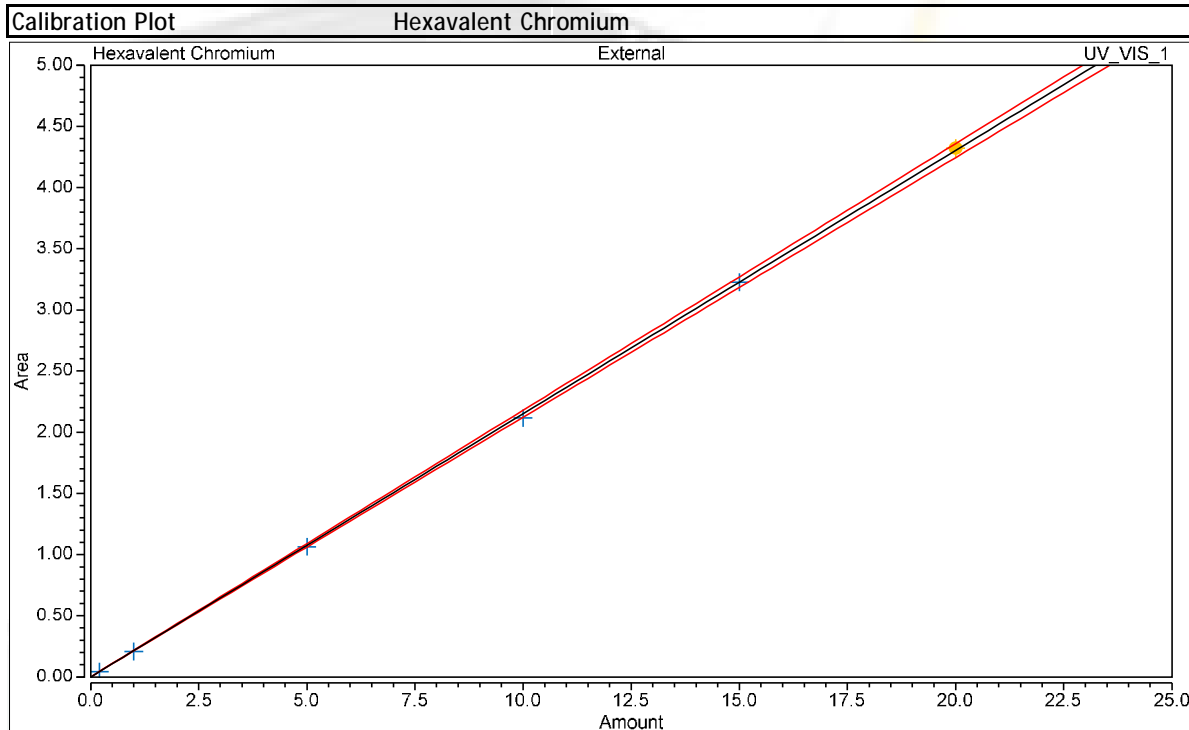
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	4.323	27.676	100.00	100.00	20.0959
Total:			4.323	27.676	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2151
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99987



Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0427	0.043	0.313
4	STD2-1.0 ppb	02	1.0000	0.2063	0.206	1.377
5	STD3-5.0 ppb	03	5.0000	1.0639	1.064	6.885
6	STD4-10.0 ppb	04	10.0000	2.1157	2.116	13.748
7	STD5-15.0 ppb	05	15.0000	3.2270	3.227	20.605
8	STD6-20.0 ppb	06	20.0000	4.3227	4.323	27.676

Reviewed by:

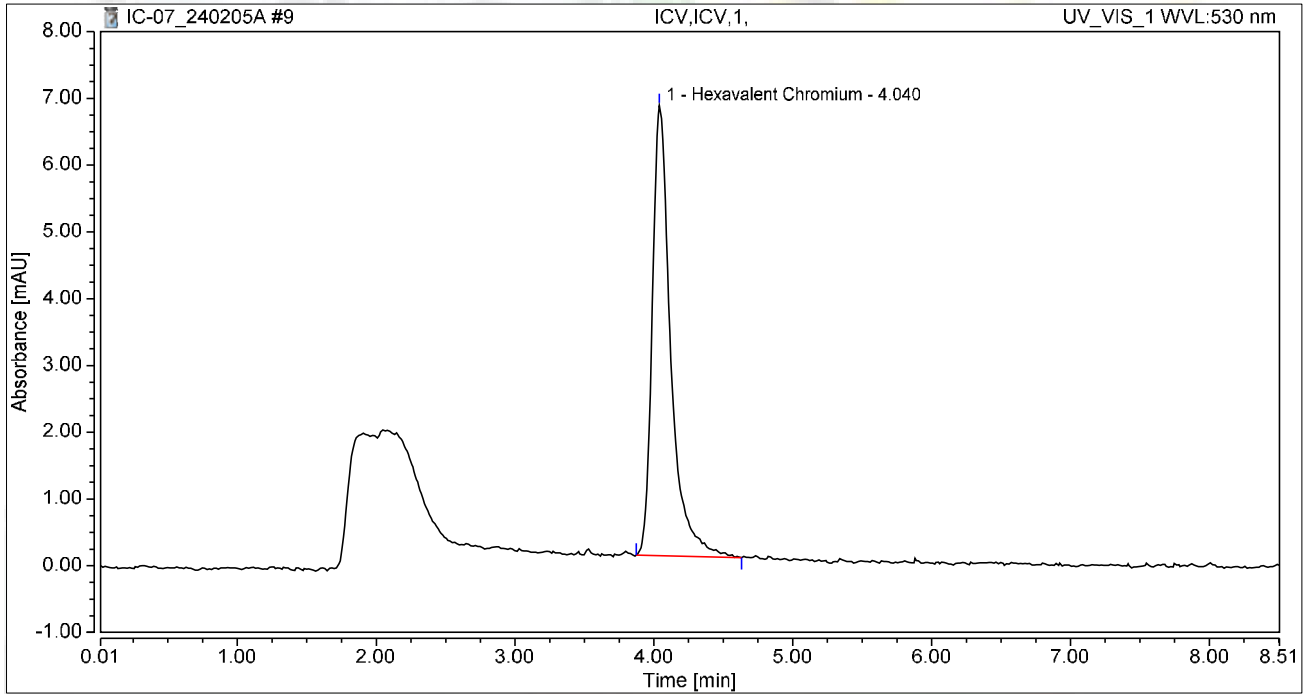
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Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:21	Sample Weight:	1.0000

Chromatogram



Integration Results

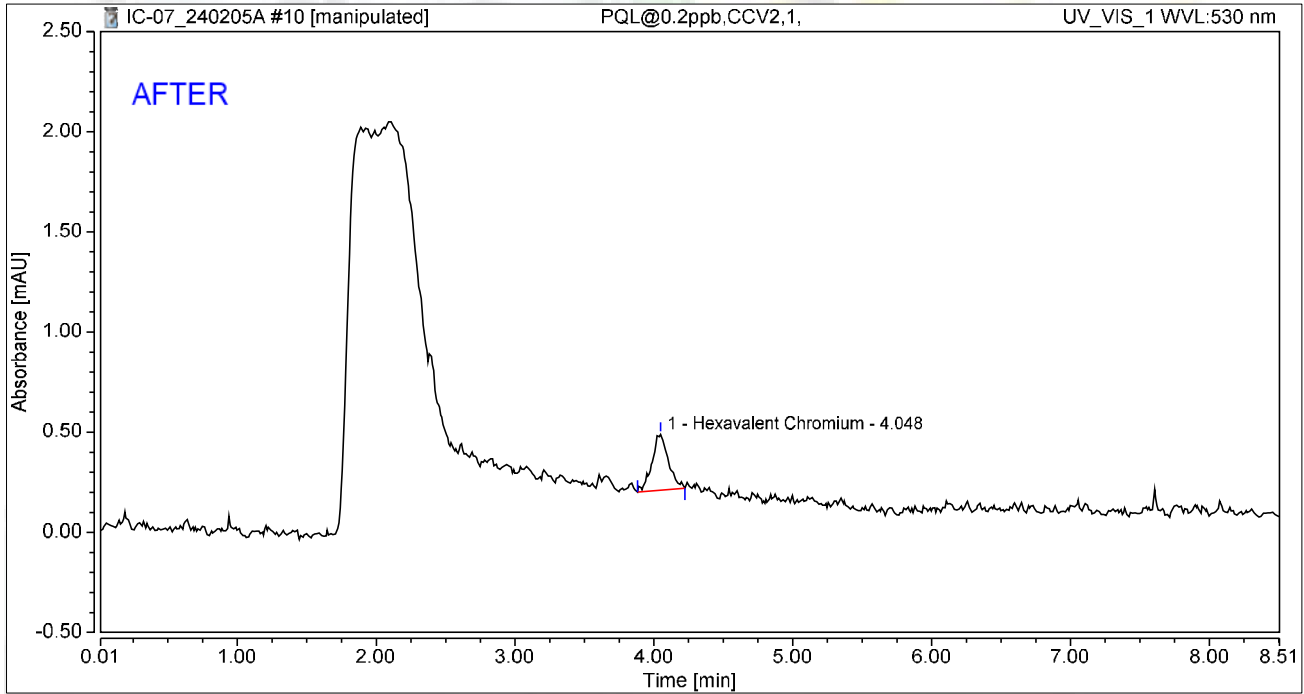
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.040	6.743	100.00	100.00	4.8342
Total:			1.040	6.743	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.039	0.279	100.00	100.00	0.1802
Total:			0.039	0.279	100.00	100.00	

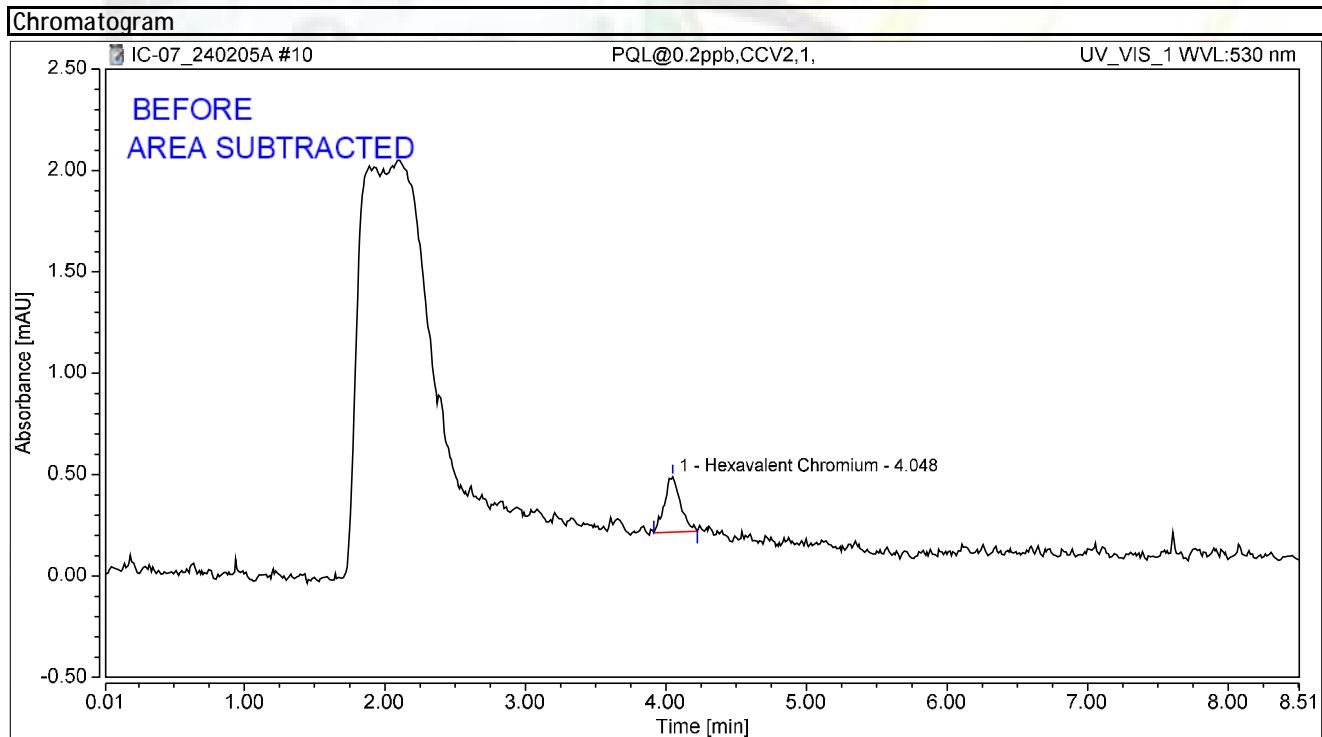
Reviewed by:

jrb

2/19/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight: 1.0000



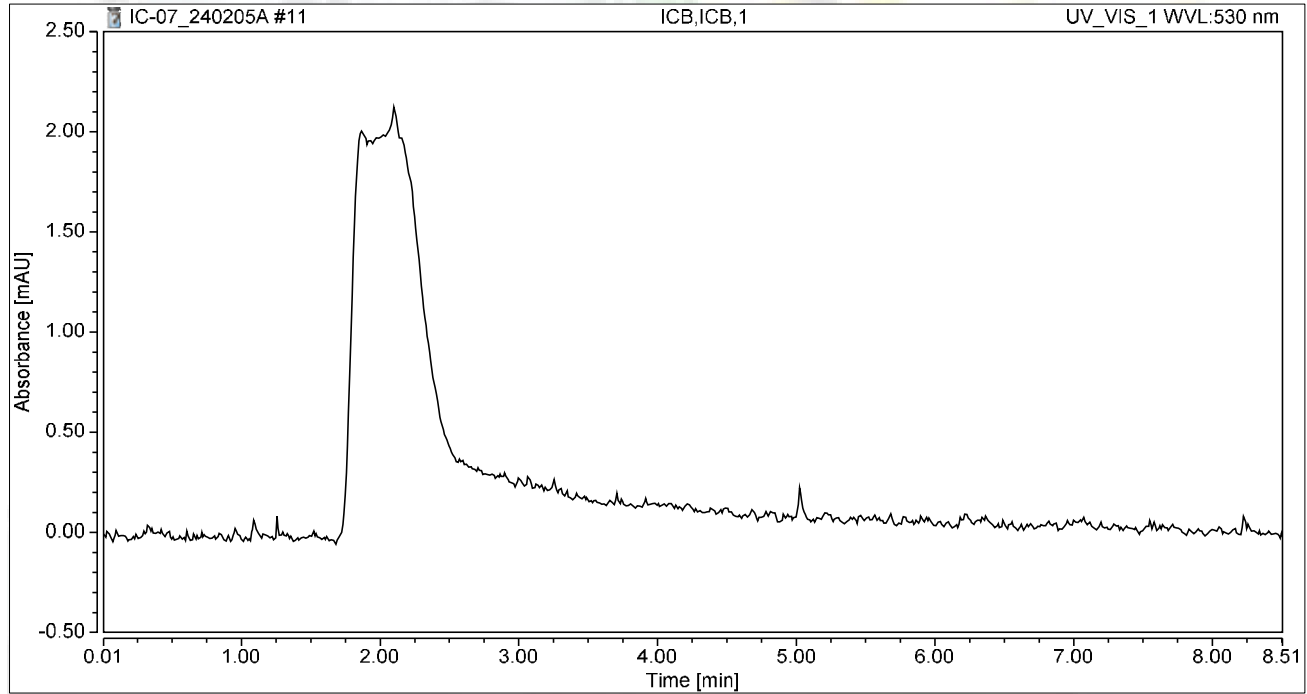
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.036	0.273	100.00	100.00	0.1694
Total:			0.036	0.273	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:40	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

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RAW DATA



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240206A

Instrument ID: IC-07


Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/06/24 9:42 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/06/24 9:55 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/06/24 10:04 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/06/24 10:14 AM	Reported
13	MB-R181246	MBLK	1	Hexavalent Chromium	02/06/24 10:23 AM	Reported
14	LCS-R181246	LCS	1	Hexavalent Chromium	02/06/24 10:33 AM	Reported
15	N062911-003A	SAMP	1	Hexavalent Chromium	02/06/24 11:12 AM	Not Reported
16	N062911-003AMS	MS	1	Hexavalent Chromium	02/06/24 11:23 AM	Not Reported
17	N062911-001A	SAMP	1	Hexavalent Chromium	02/06/24 11:32 AM	Reported
18	N062911-001AMS	MS	1	Hexavalent Chromium	02/06/24 11:42 AM	Reported
19	N062911-004A	SAMP	5	Hexavalent Chromium	02/06/24 11:51 AM	Reported
20	N062911-004AMS	MS	5	Hexavalent Chromium	02/06/24 12:00 PM	Not Reported
21	N062911-007A	SAMP	1	Hexavalent Chromium	02/06/24 12:10 PM	Reported
22	N062911-007AMS	MS	1	Hexavalent Chromium	02/06/24 12:19 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/06/24 12:29 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/06/24 12:38 PM	Reported
25	N062911-009A	SAMP	1	Hexavalent Chromium	02/06/24 12:48 PM	Not Reported
26	N062911-009A	SAMP	1	Hexavalent Chromium	02/06/24 12:57 PM	Reported
27	N062911-003A	SAMP	5	Hexavalent Chromium	02/06/24 1:07 PM	Reported
28	N062911-003AMS	MS	5	Hexavalent Chromium	02/06/24 1:16 PM	Reported
29	N062911-003AMSD	MSD	5	Hexavalent Chromium	02/06/24 1:26 PM	Reported
30	N062911-002A	SAMP	1	Hexavalent Chromium	02/06/24 1:35 PM	Not Reported
31	N062911-002AMS	MS	1	Hexavalent Chromium	02/06/24 1:45 PM	Not Reported
32	N062911-006A	SAMP	1	Hexavalent Chromium	02/06/24 1:54 PM	Reported
33	N062911-006AMS	MS	1	Hexavalent Chromium	02/06/24 2:03 PM	Reported
34	N062911-003AMSD	MSD	1	Hexavalent Chromium	02/06/24 2:13 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/06/24 2:22 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/06/24 2:32 PM	Reported
37	N062911-005A	SAMP	1	Hexavalent Chromium	02/06/24 2:41 PM	Reported
38	N062911-005AMS	MS	1	Hexavalent Chromium	02/06/24 2:51 PM	Reported
39	N062911-010A	SAMP	1	Hexavalent Chromium	02/06/24 3:00 PM	Reported
40	N062911-010AMS	MS	1	Hexavalent Chromium	02/06/24 3:10 PM	Reported
41	N062911-011A	SAMP	1	Hexavalent Chromium	02/06/24 3:19 PM	Reported
42	N062911-011AMS	MS	1	Hexavalent Chromium	02/06/24 3:29 PM	Reported

INJECTION LOG: 240206A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062911-002A	SAMP	5	Hexavalent Chromium	02/06/24 3:38 PM	Not Reported
44	N062911-002AMS	MS	5	Hexavalent Chromium	02/06/24 3:48 PM	Not Reported
45	N062911-006A	SAMP	5	Hexavalent Chromium	02/06/24 3:57 PM	Not Reported
46	N062911-006AMS	MS	5	Hexavalent Chromium	02/06/24 4:06 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/06/24 4:16 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/06/24 4:25 PM	Reported
49	N062911-008A	SAMP	1	Hexavalent Chromium	02/06/24 4:35 PM	Reported
50	N062911-008AMS	MS	1	Hexavalent Chromium	02/06/24 4:44 PM	Reported
51	N062911-008A	SAMP	5	Hexavalent Chromium	02/06/24 4:54 PM	Not Reported
52	N062911-008AMS	MS	5	Hexavalent Chromium	02/06/24 5:03 PM	Not Reported
53	N062911-001ADUP	DUP	1	Hexavalent Chromium	02/06/24 5:13 PM	Reported
54	N062911-004A	SAMP	1	Hexavalent Chromium	02/06/24 5:22 PM	Not Reported
55	N062911-004AMS	MS	1	Hexavalent Chromium	02/06/24 5:32 PM	Not Reported
56	N062911-004AMS	MS	5	Hexavalent Chromium	02/06/24 5:41 PM	Reported
57	CCV-5	CCV	1	Hexavalent Chromium	02/06/24 5:50 PM	Reported
58	CCB-5	CCB	1	Hexavalent Chromium	02/06/24 6:00 PM	Reported
59	BLANK	BLANK	1	Hexavalent Chromium	02/06/24 6:09 PM	Not Reported

Reviewed by:

 2/19/2024

Injection Log Summary

Sequence Details

Name:	IC-07_240206A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 18:40:11
No. of Injections:	62	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/06/2024 09:42	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/06/2024 09:55	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/06/2024 10:04	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/06/2024 10:14	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/06/2024 10:23	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/06/2024 10:33	Finished	LCS @5ppb, IWST-231228B
15	N062911-003A,SAMF	1	1000	Unknown		02/06/2024 11:12	Finished	SAMP,10 mL
16	N062911-003AMS,MS	2	1000	Unknown		02/06/2024 11:23	Finished	MS (1ppb), IWST-231228B,10r
17	N062911-001A,SAMF	3	1000	Unknown		02/06/2024 11:32	Finished	SAMP,10 mL
18	N062911-001AMS,MS	4	1000	Unknown		02/06/2024 11:42	Finished	MS (5ppb), IWST-231228B,10r
19	N062911-004A,SAMF	5	1000	Unknown		02/06/2024 11:51	Finished	SAMP,2>10 mL
20	N062911-004AMS,MS	6	1000	Unknown		02/06/2024 12:00	Finished	MS (5ppb), IWST-231228B,2>
21	N062911-007A,SAMF	7	1000	Unknown		02/06/2024 12:10	Finished	SAMP,10 mL
22	N062911-007AMS,MS	8	1000	Unknown		02/06/2024 12:19	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2,CCV,1,	9	1000	Unknown		02/06/2024 12:29	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		02/06/2024 12:38	Finished	CCB R240103B
25	N062911-009A,SAMF	11	1000	Unknown		02/06/2024 12:48	Finished	SAMP,10 mL
26	N062911-009A,SAMF	12	1000	Unknown		02/06/2024 12:57	Finished	MS (1ppb), IWST-231228B,10r
27	N062911-003A,SAMF	13	1000	Unknown		02/06/2024 13:07	Finished	SAMP,2>10 mL
28	N062911-003AMS,MS	14	1000	Unknown		02/06/2024 13:16	Finished	MS (1ppb), IWST-231228B,2>
29	N062911-003AMSD,MS	15	1000	Unknown		02/06/2024 13:26	Finished	MSD (1ppb), IWST-231228B,2>
30	N062911-002A,SAMF	16	1000	Unknown		02/06/2024 13:35	Finished	SAMP,10 mL
31	N062911-002AMS,MS	17	1000	Unknown		02/06/2024 13:45	Finished	MS (5ppb), IWST-231228B,10r
32	N062911-006A,SAMF	18	1000	Unknown		02/06/2024 13:54	Finished	SAMP,10 mL
33	N062911-006AMS,MS	19	1000	Unknown		02/06/2024 14:03	Finished	MS (1ppb), IWST-231228B,10r
34	N062911-003AMSD,MS	20	1000	Unknown		02/06/2024 14:13	Finished	MSD (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	21	1000	Unknown		02/06/2024 14:22	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	22	1000	Unknown		02/06/2024 14:32	Finished	CCB R240103B
37	N062911-005A,SAMF	23	1000	Unknown		02/06/2024 14:41	Finished	SAMP,10 mL
38	N062911-005AMS,MS	24	1000	Unknown		02/06/2024 14:51	Finished	MS (1ppb), IWST-231228B,10r
39	N062911-010A,SAMF	25	1000	Unknown		02/06/2024 15:00	Finished	SAMP,10 mL
40	N062911-010AMS,MS	26	1000	Unknown		02/06/2024 15:10	Finished	MS (1ppb), IWST-231228B,10r
41	N062911-011A,SAMF	27	1000	Unknown		02/06/2024 15:19	Finished	SAMP,10 mL
42	N062911-011AMS,MS	28	1000	Unknown		02/06/2024 15:29	Finished	MS (5ppb), IWST-231228B,10r
43	N062911-002A,SAMF	29	1000	Unknown		02/06/2024 15:38	Finished	SAMP,2>10 mL
44	N062911-002AMS,MS	30	1000	Unknown		02/06/2024 15:48	Finished	MS (1ppb), IWST-231228B,2>
45	N062911-006A,SAMF	31	1000	Unknown		02/06/2024 15:57	Finished	SAMP,2>10 mL
46	N062911-006AMS,MS	32	1000	Unknown		02/06/2024 16:06	Finished	MS (1ppb), IWST-231228B,2>
47	CCV-4,CCV1,1,	33	1000	Unknown		02/06/2024 16:16	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	34	1000	Unknown		02/06/2024 16:25	Finished	CCB R240103B
49	N062911-008A,SAMF	35	1000	Unknown		02/06/2024 16:35	Finished	SAMP,10 mL
50	N062911-008AMS,MS	36	1000	Unknown		02/06/2024 16:44	Finished	MS (1ppb), IWST-231228B,10r
51	N062911-008A,SAMF	37	1000	Unknown		02/06/2024 16:54	Finished	SAMP,2>10 mL
52	N062911-008AMS,MS	38	1000	Unknown		02/06/2024 17:03	Finished	MS (1ppb), IWST-231228B,2>
53	N062911-001ADUP,MS	39	1000	Unknown		02/06/2024 17:13	Finished	DUP,10 mL
54	N062911-004A,SAMF	40	1000	Unknown		02/06/2024 17:22	Finished	SAMP,10 mL
55	N062911-004AMS,MS	41	1000	Unknown		02/06/2024 17:32	Finished	MS (1ppb), IWST-231228B,10r
56	N062911-004AMS,MS	42	1000	Unknown		02/06/2024 17:41	Finished	MS (1ppb), IWST-231228B,2>
57	CCV-5,CCV,1,	43	1000	Unknown		02/06/2024 17:50	Finished	CCV @5ppb, IWST-231228A
58	CCB-5,CCB,1,	44	1000	Unknown		02/06/2024 18:00	Finished	CCB R240103B
59	BLANK	45	1000	Unknown		02/06/2024 18:09	Finished	BLANK
60	SHUTDOWN	46	1000	Unknown		02/06/2024 18:19	Finished	

61	Eluent: R240205A	47	1000	Unknown		n.a.	Finished	
62	PCR: R240205B	48	1000	Unknown		n.a.	Finished	

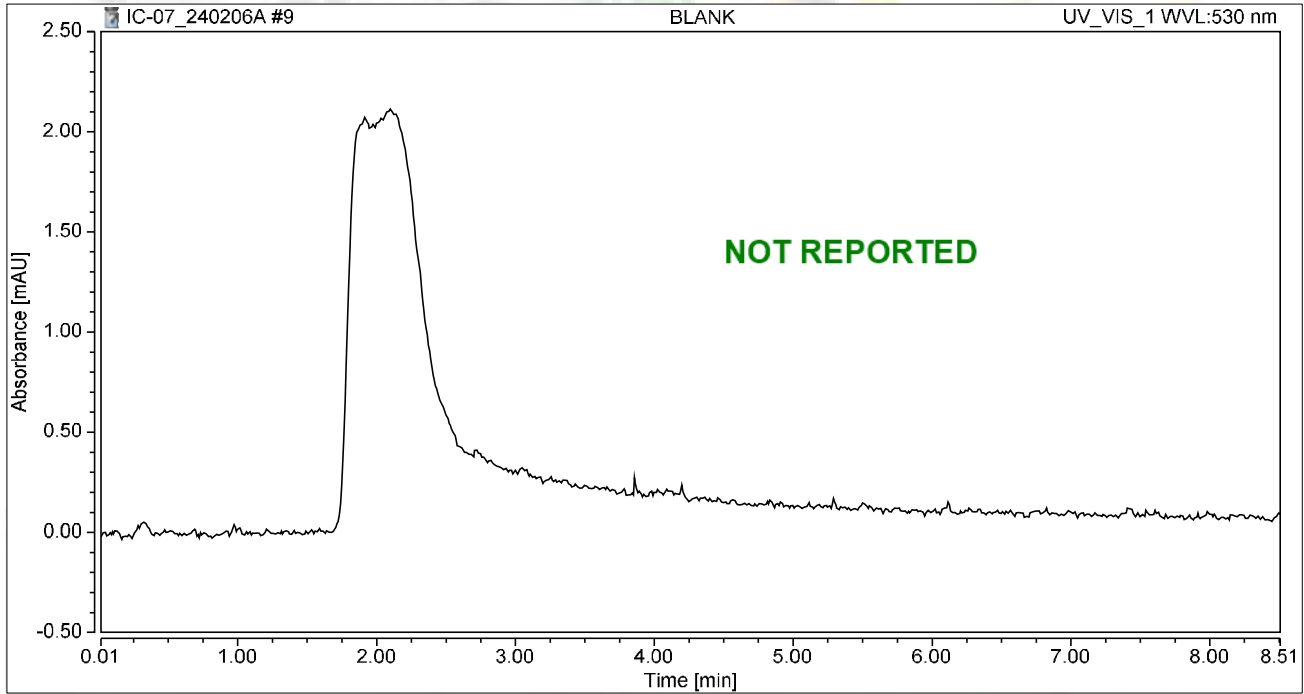


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 09:42	Sample Weight:	1.0000

Chromatogram



Integration Results

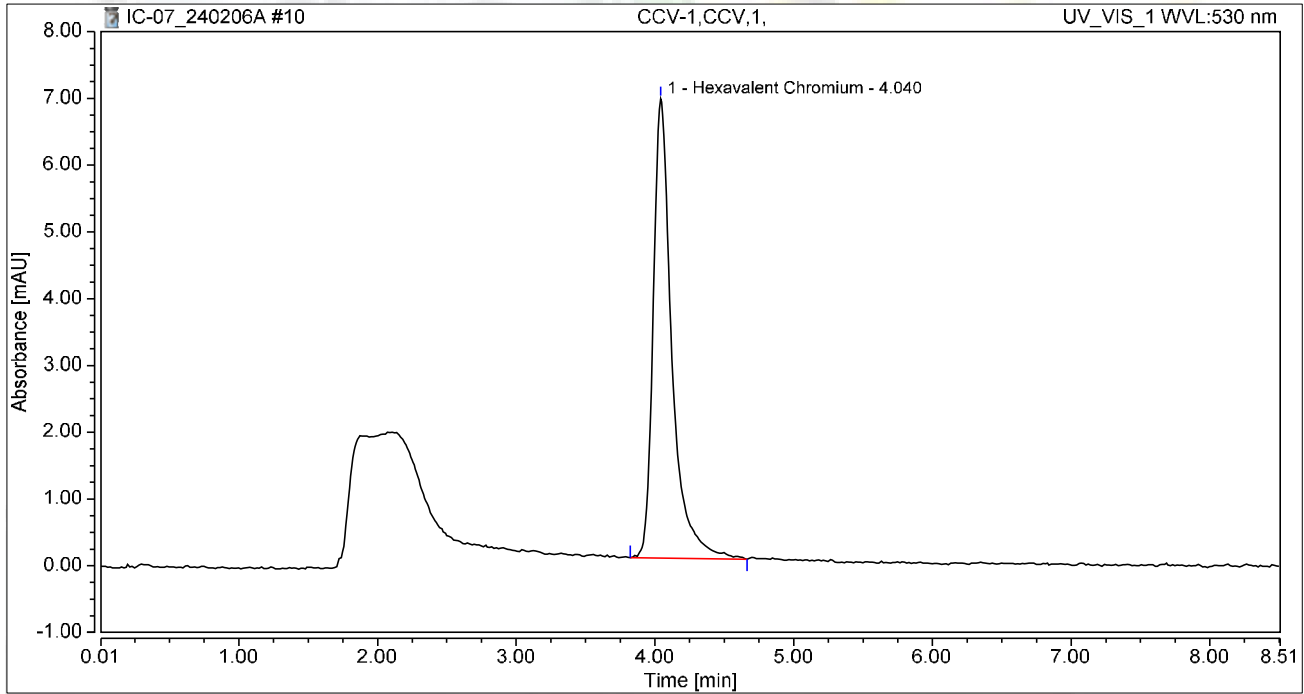
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 09:55	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.073	6.880	100.00	100.00	4.9899
Total:			1.073	6.880	100.00	100.00	

Reviewed by:

jrb

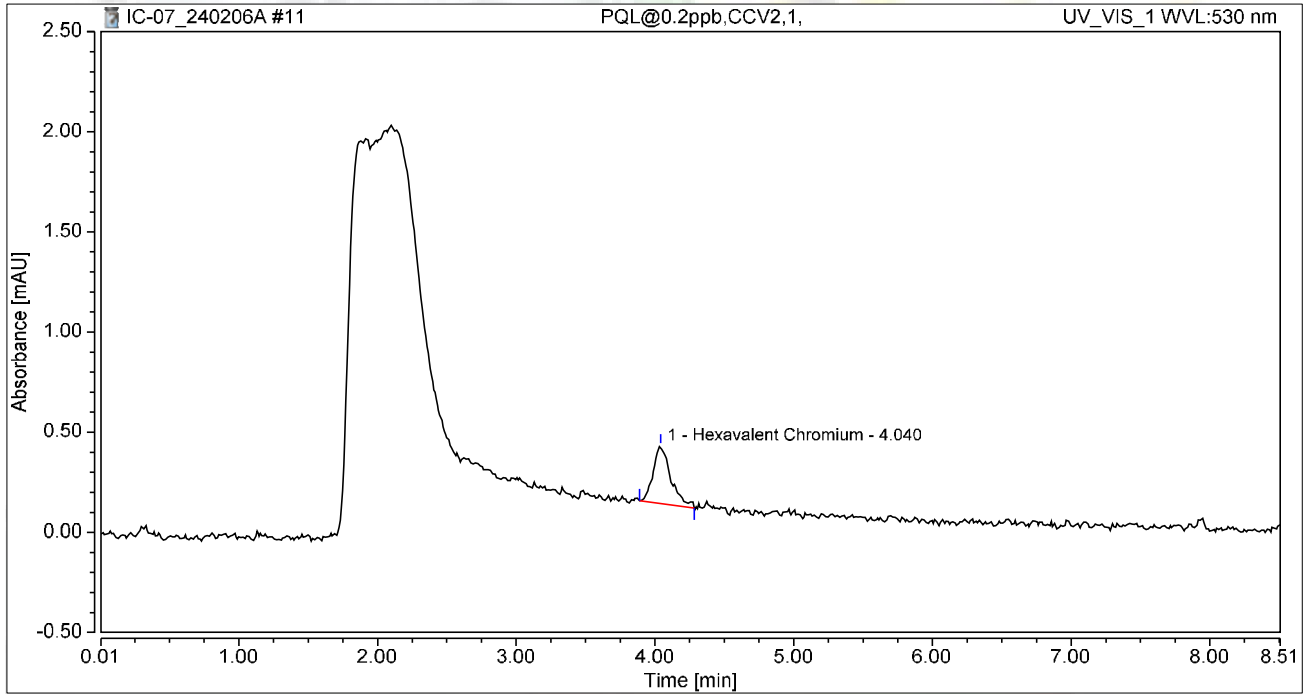
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 10:04	Sample Weight:	1.0000

Chromatogram



Integration Results

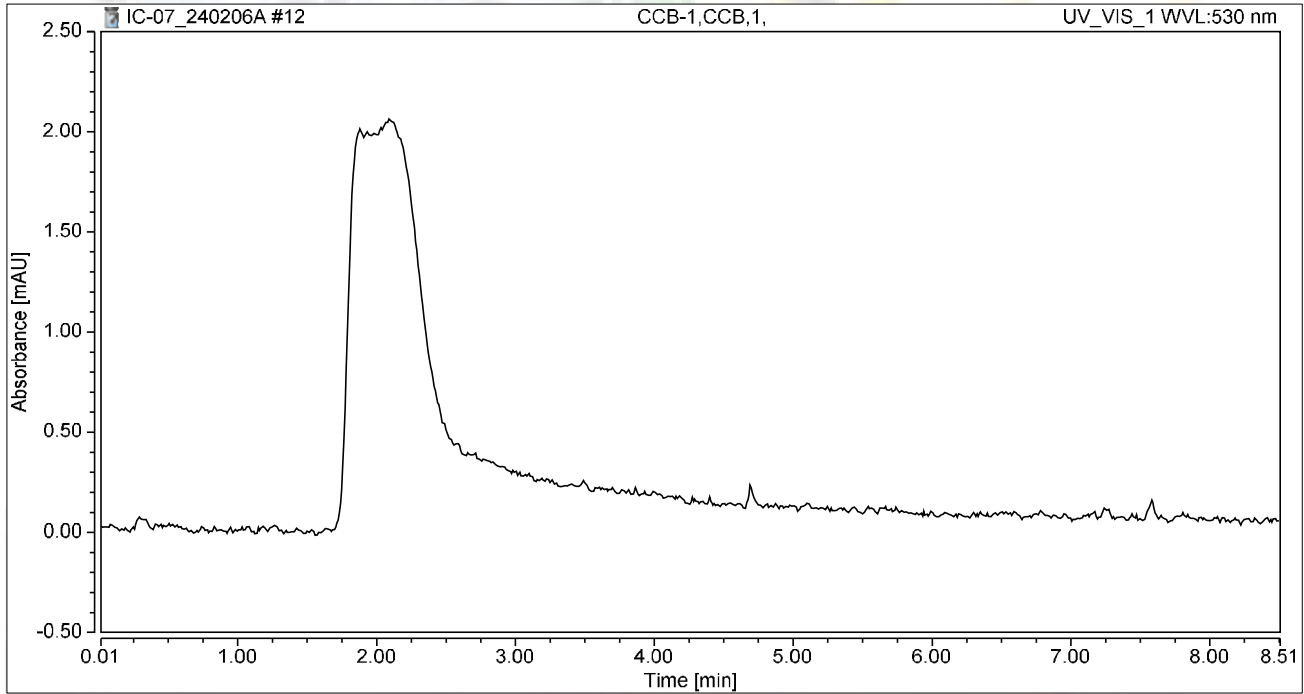
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.042	0.287	100.00	100.00	0.1958
Total:			0.042	0.287	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 10:14	Sample Weight:	1.0000

Chromatogram



Integration Results

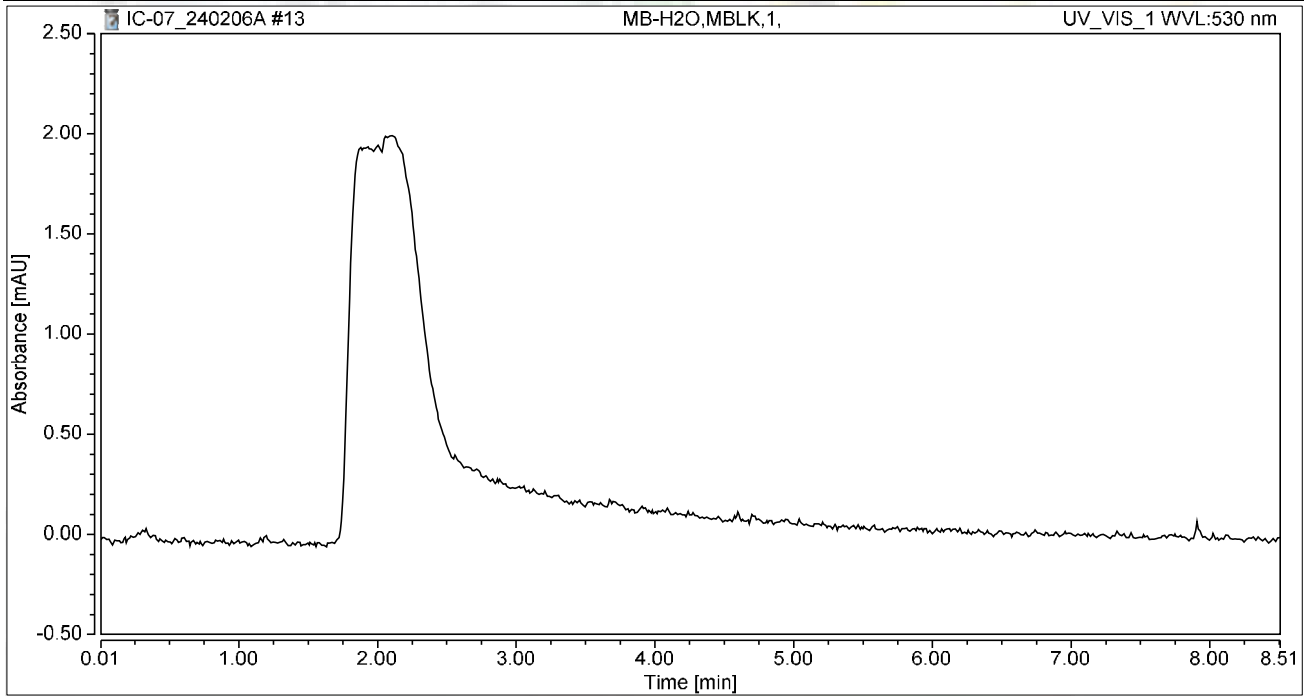
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 10:23	Sample Weight:	1.0000

Chromatogram



Integration Results

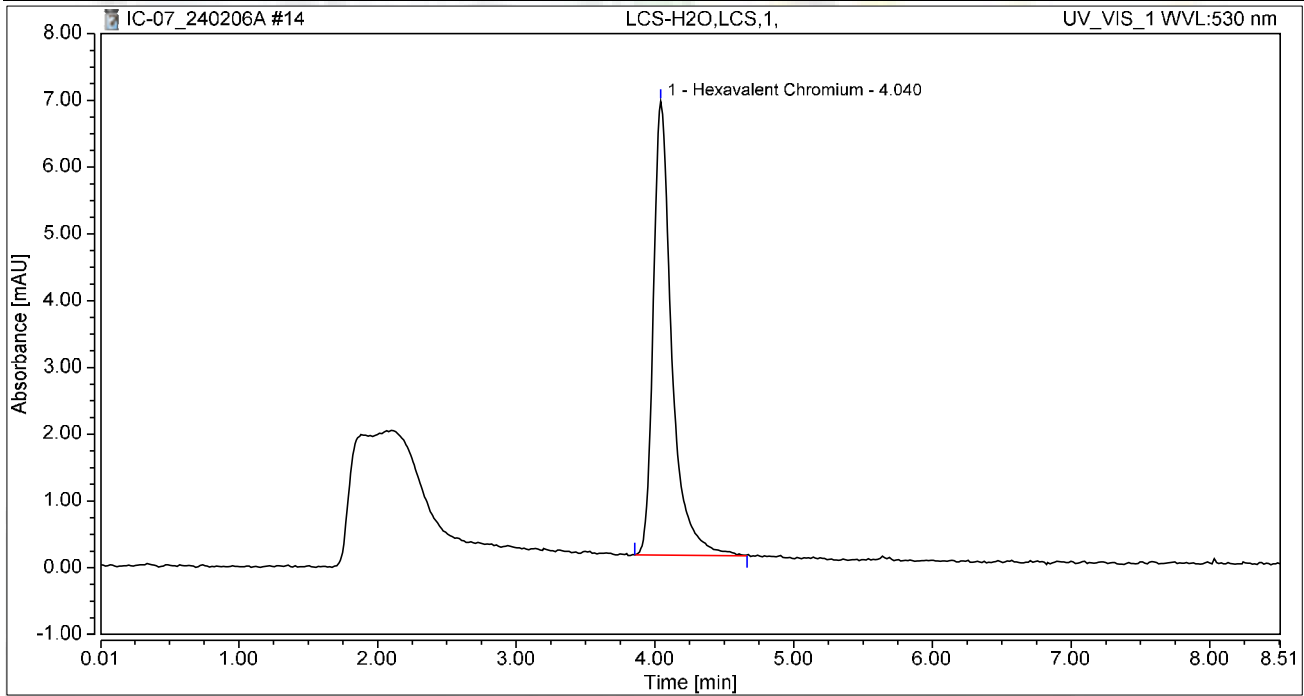
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 10:33	Sample Weight:	1.0000

Chromatogram



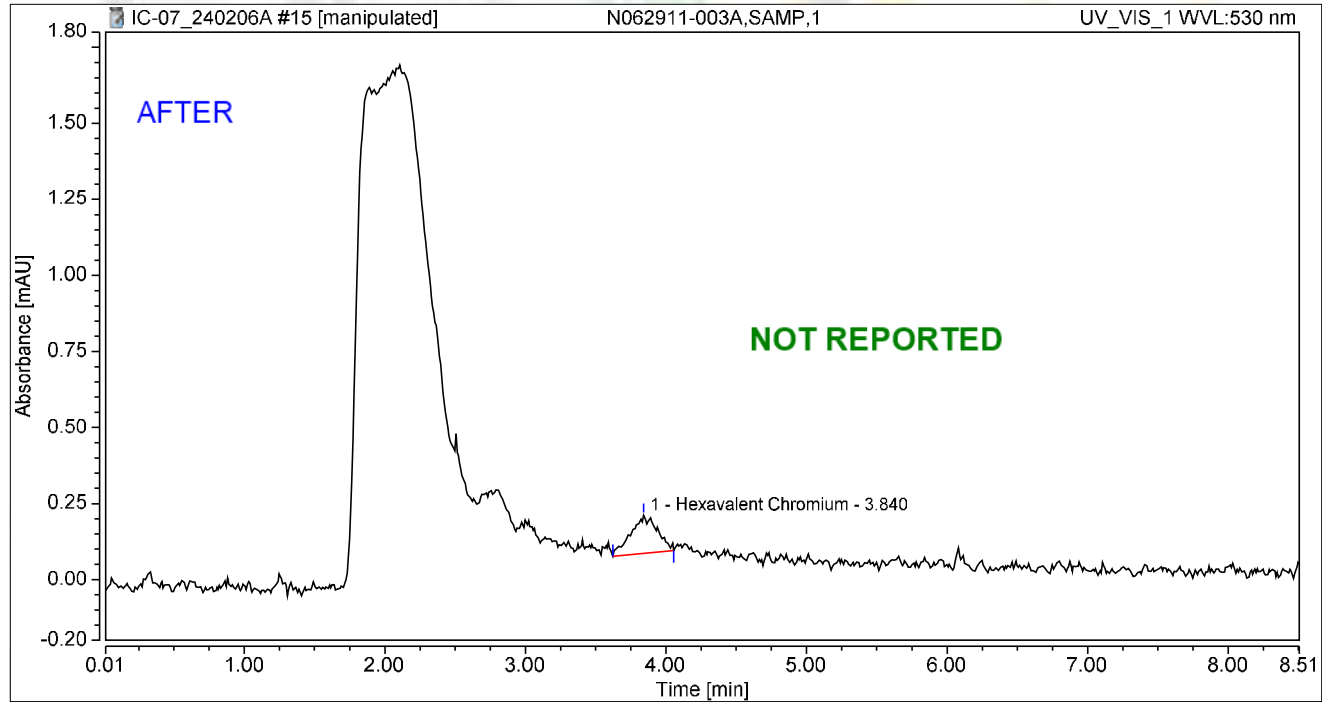
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.049	6.798	100.00	100.00	4.8770
Total:			1.049	6.798	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062911-003A,SAMP,1	Run Time (min): 8.49
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	06/Feb/24 11:12	Sample Weight: 1.0000

Chromatogram



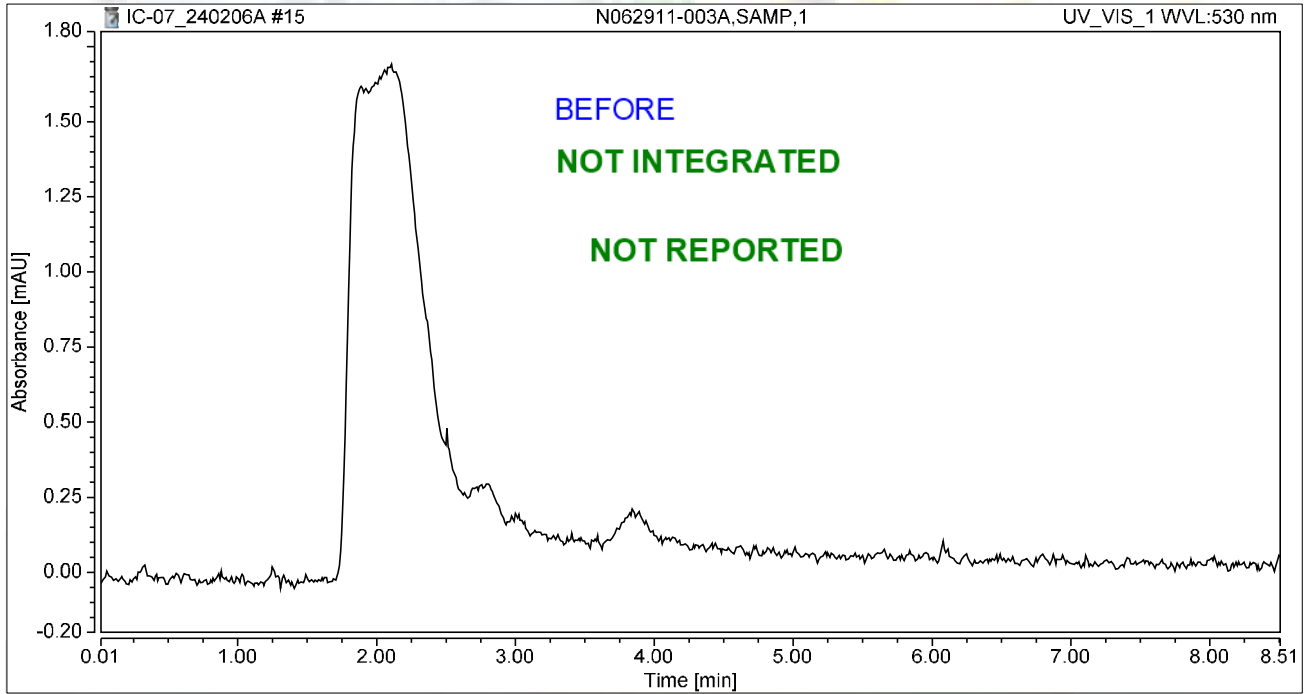
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.028	0.125	100.00	100.00	0.1283
Total:			0.028	0.125	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 11:12	Sample Weight:	1.0000

Chromatogram



Integration Results

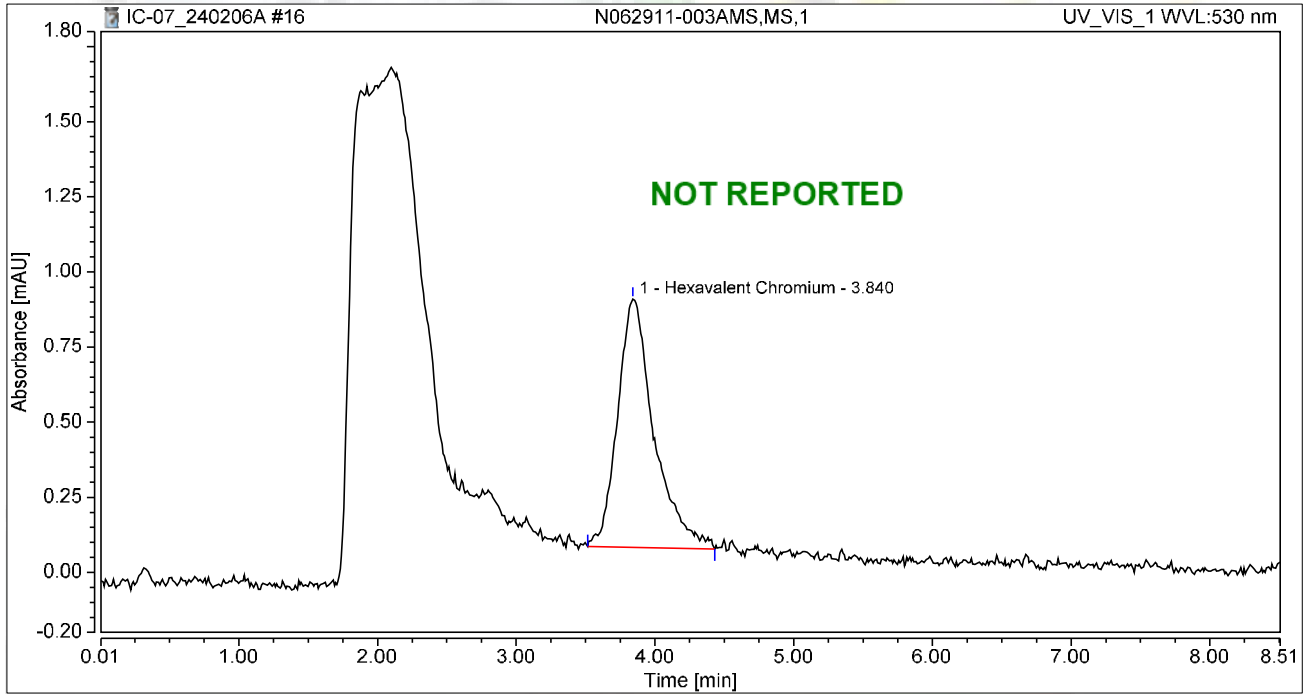
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 11:23	Sample Weight:	1.0000

Chromatogram



Integration Results

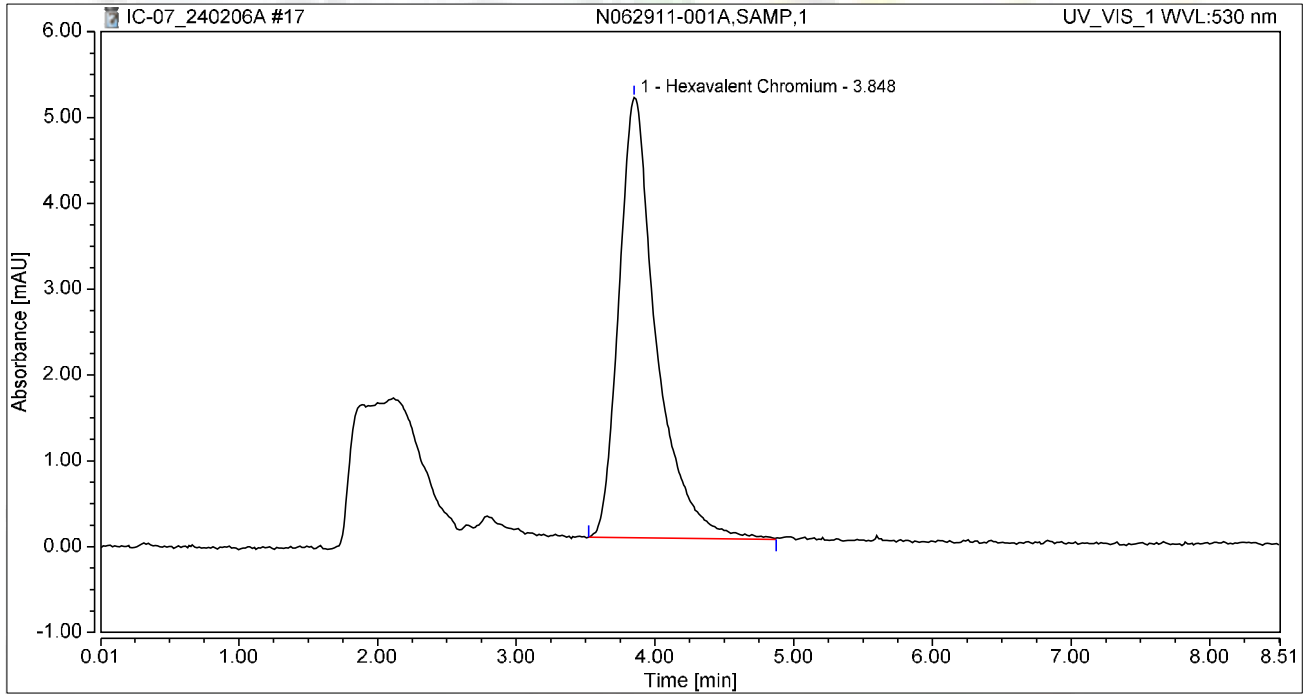
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.251	0.827	100.00	100.00	1.1684
Total:			0.251	0.827	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 11:32	Sample Weight:	1.0000

Chromatogram



Integration Results

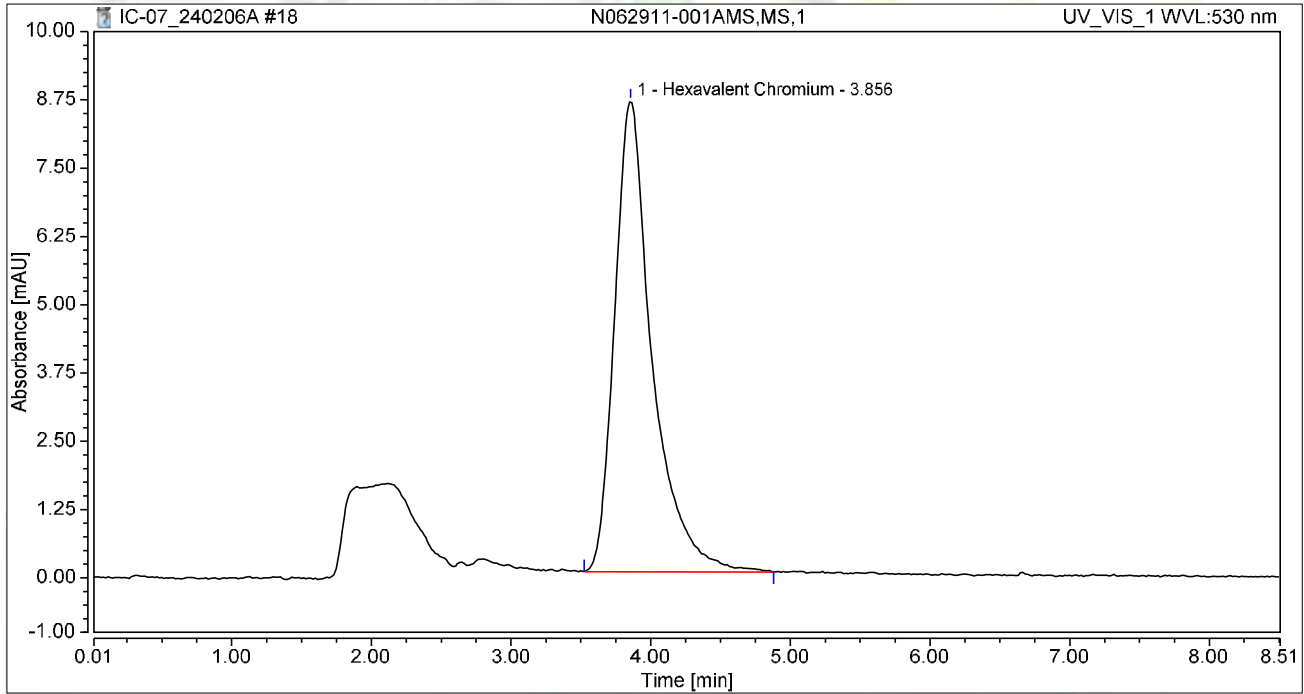
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	1.597	5.128	100.00	100.00	7.4246
Total:			1.597	5.128	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 11:42	Sample Weight:	1.0000

Chromatogram



Integration Results

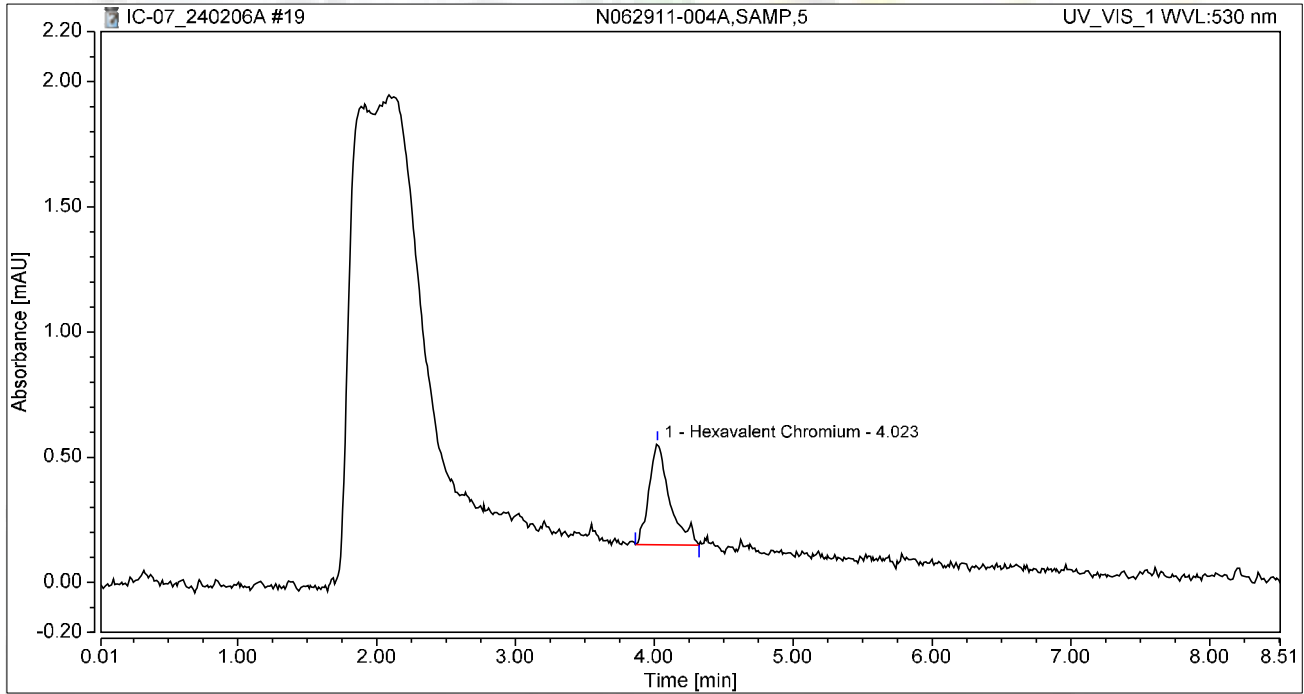
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	2.674	8.621	100.00	100.00	12.4331
Total:			2.674	8.621	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 11:51	Sample Weight:	1.0000

Chromatogram



Integration Results

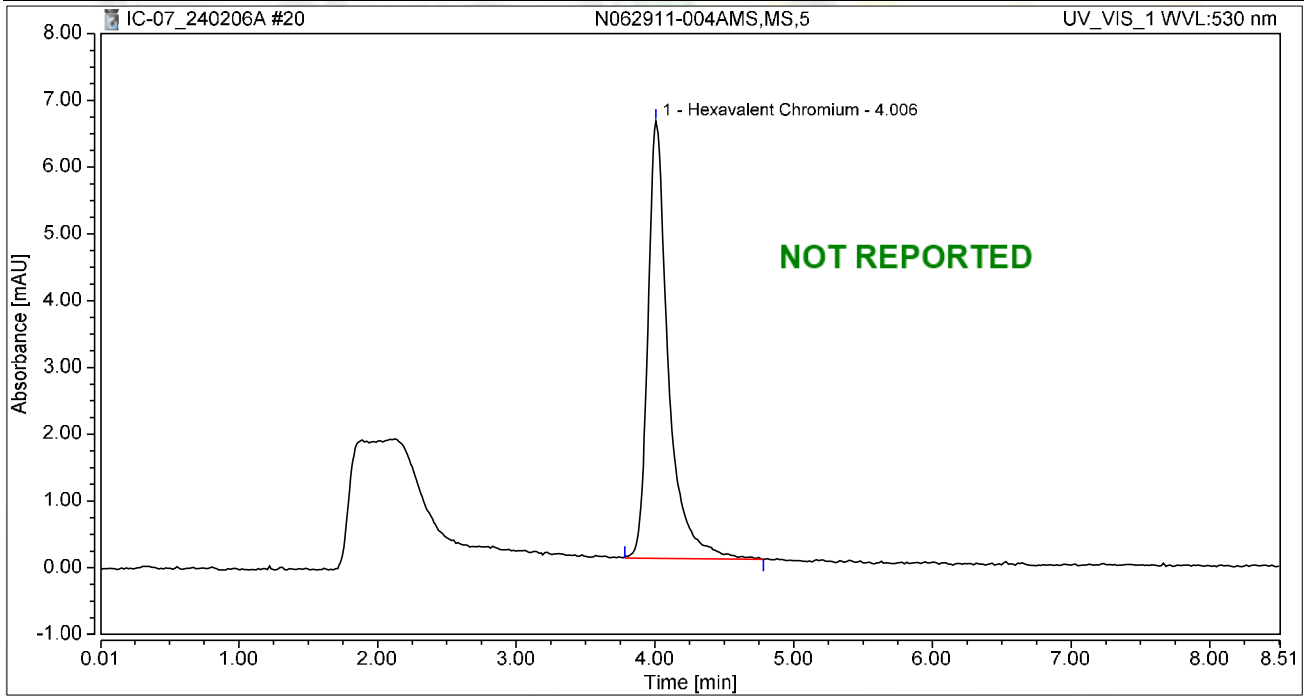
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.070	0.405	100.00	100.00	0.3242
Total:			0.070	0.405	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:00	Sample Weight:	1.0000

Chromatogram



Integration Results

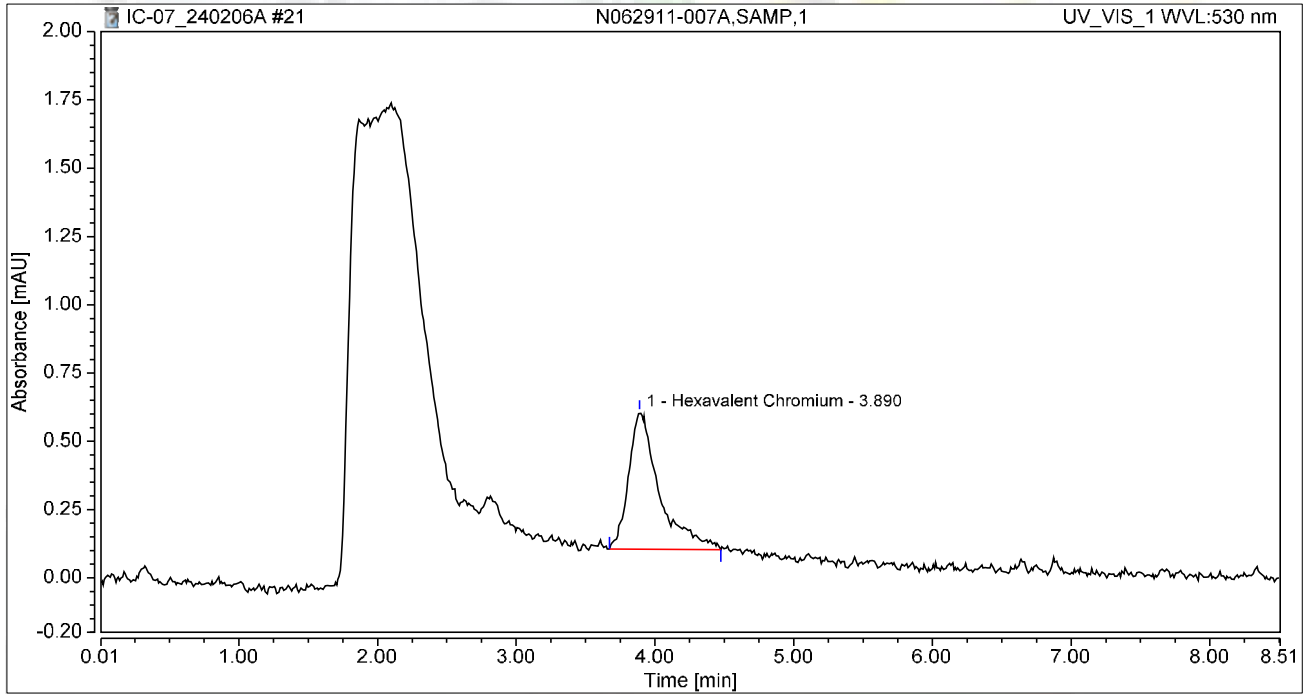
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.119	6.549	100.00	100.00	5.2020
Total:			1.119	6.549	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:10	Sample Weight:	1.0000

Chromatogram



Integration Results

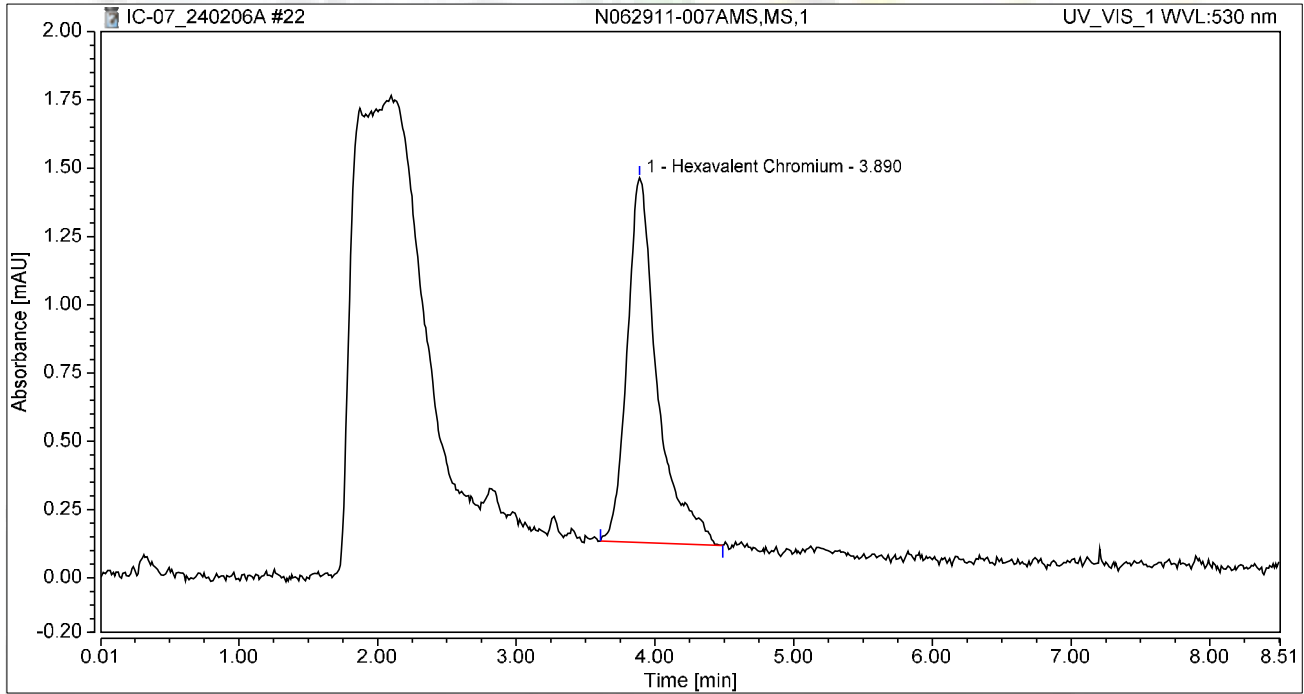
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.129	0.502	100.00	100.00	0.5992
Total:			0.129	0.502	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:19	Sample Weight:	1.0000

Chromatogram



Integration Results

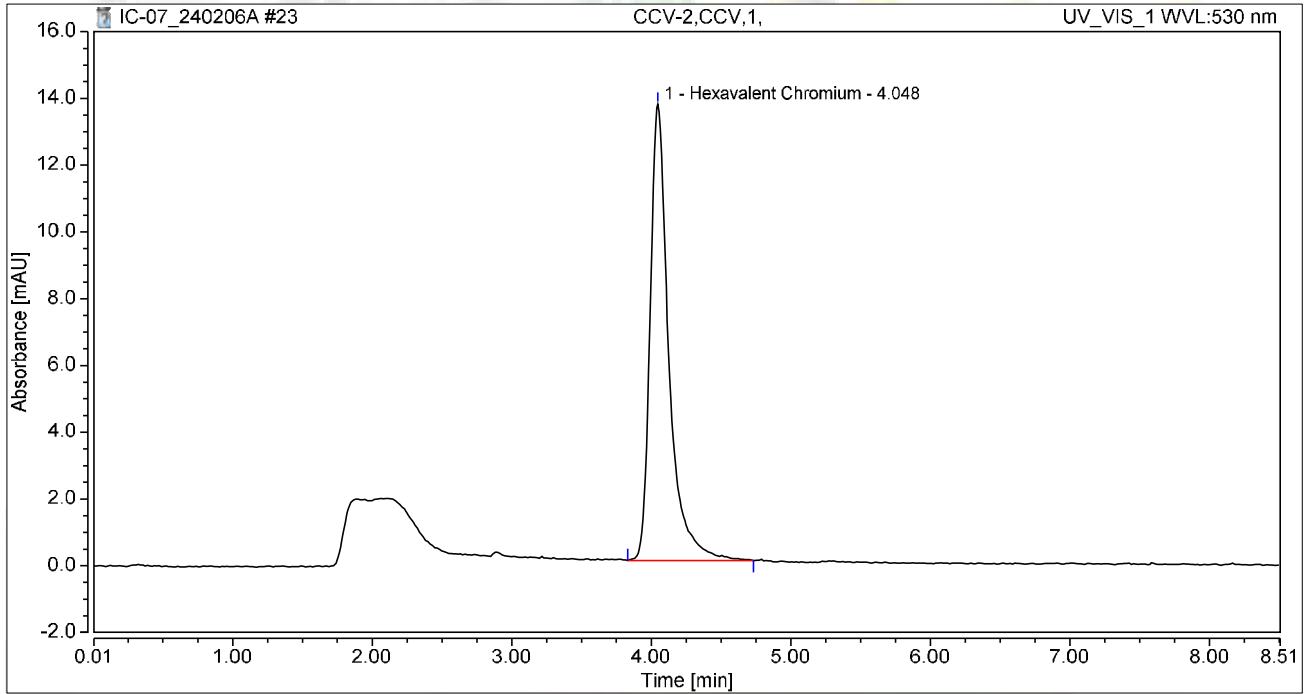
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.335	1.335	100.00	100.00	1.5586
Total:			0.335	1.335	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:29	Sample Weight:	1.0000

Chromatogram



Integration Results

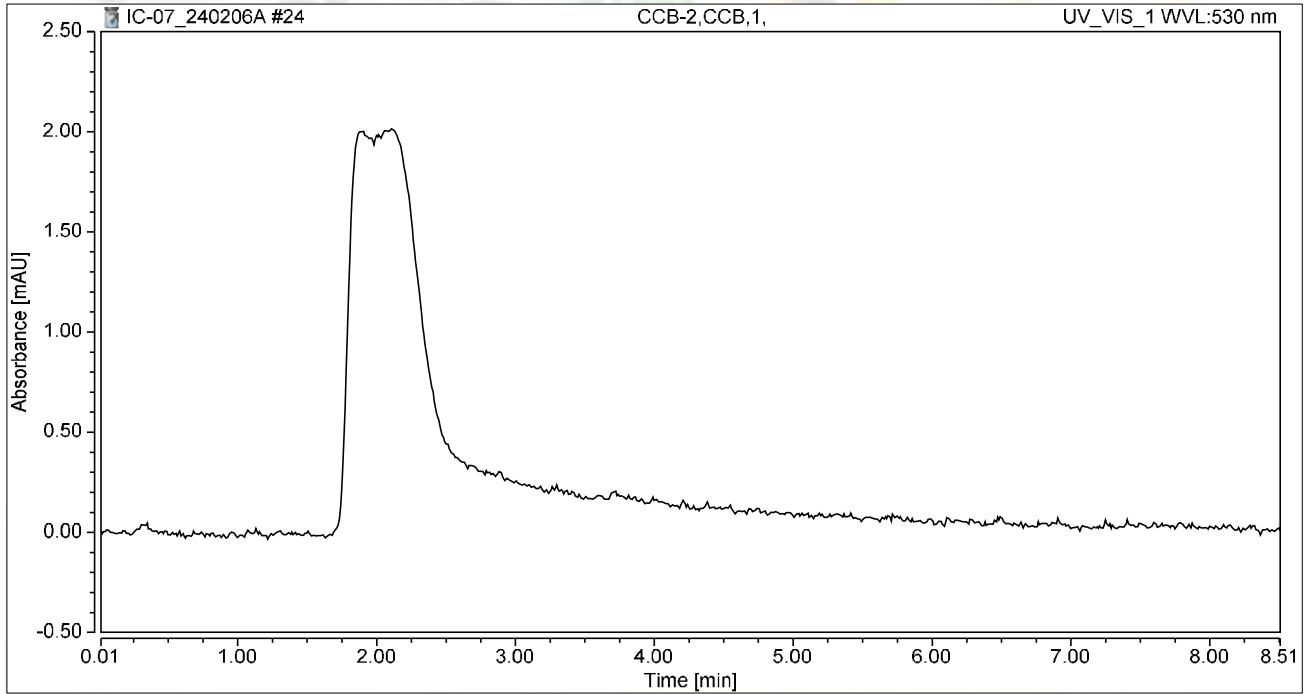
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.126	13.668	100.00	100.00	9.8829
Total:			2.126	13.668	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:38	Sample Weight:	1.0000

Chromatogram



Integration Results

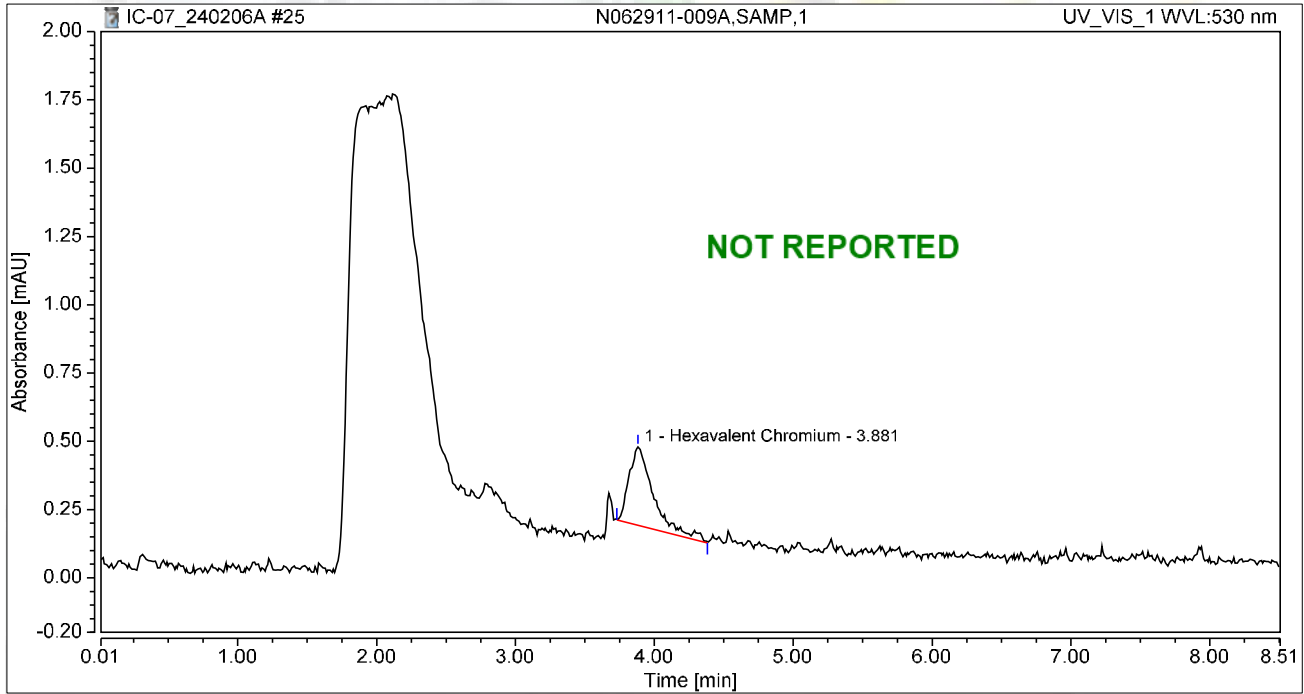
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:48	Sample Weight:	1.0000

Chromatogram



Integration Results

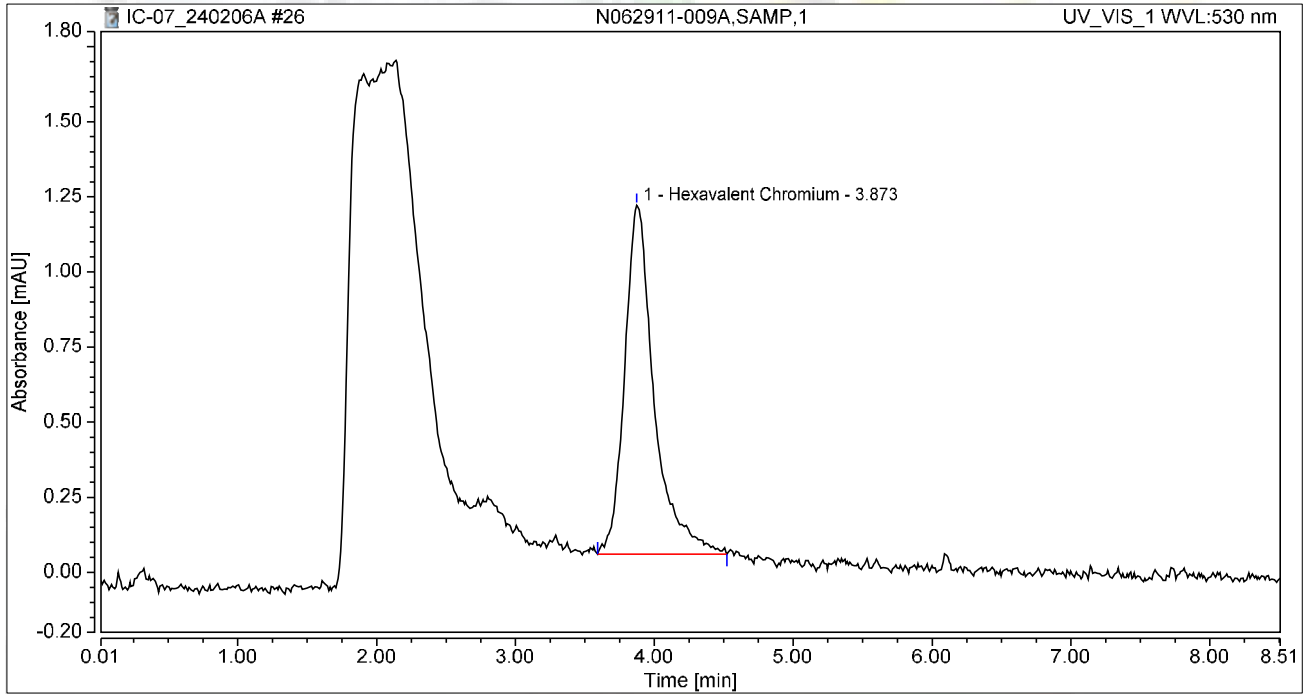
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.058	0.287	100.00	100.00	0.2711
Total:			0.058	0.287	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 12:57	Sample Weight:	1.0000

Chromatogram



Integration Results

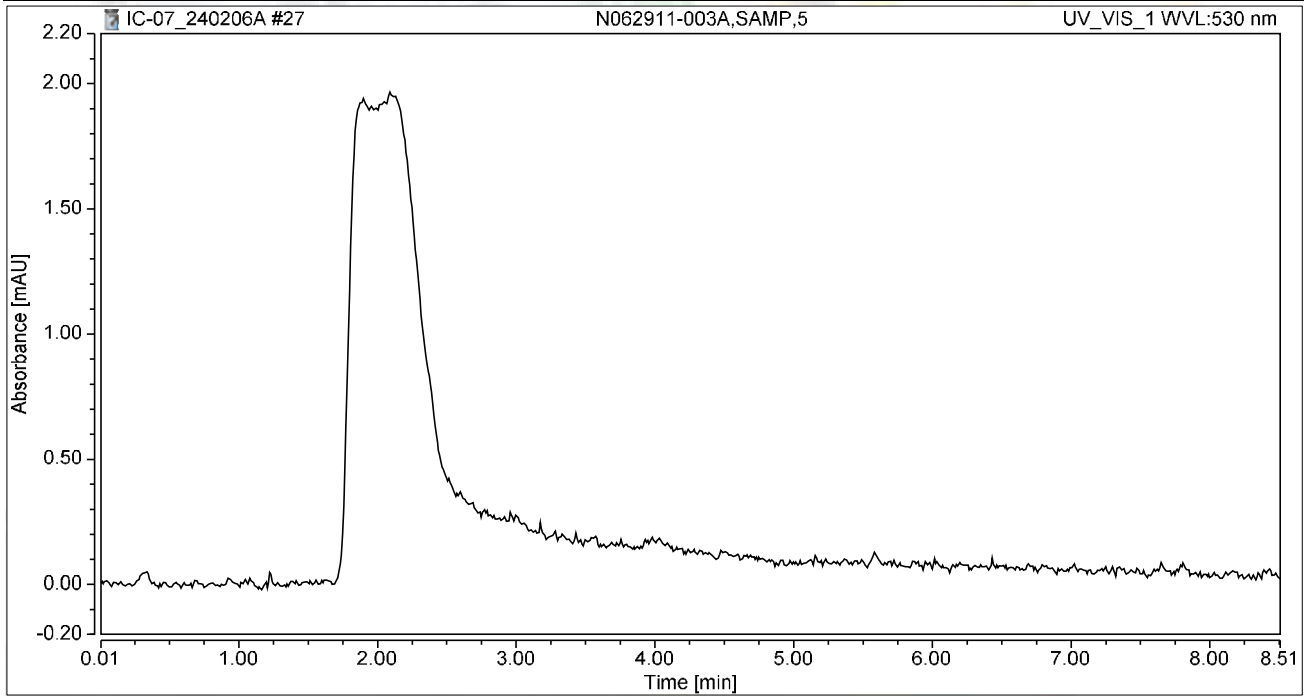
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.286	1.160	100.00	100.00	1.3288
Total:			0.286	1.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:07	Sample Weight:	1.0000

Chromatogram



Integration Results

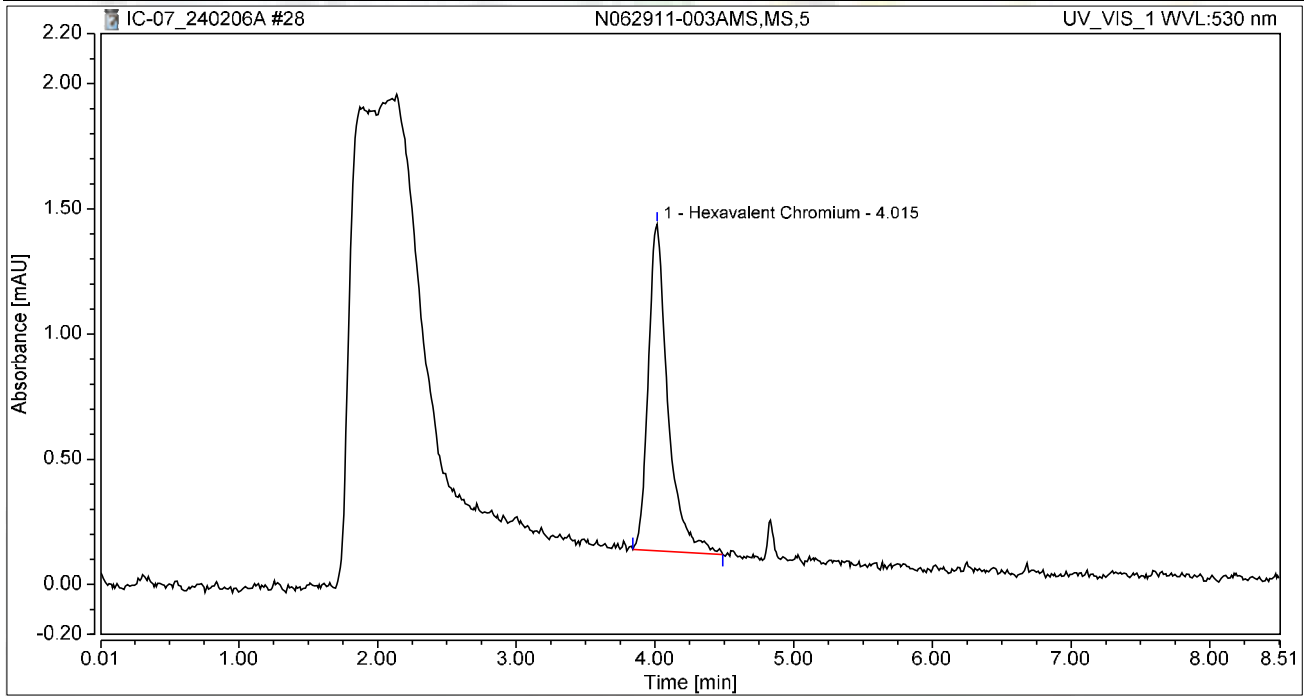
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:16	Sample Weight:	1.0000

Chromatogram



Integration Results

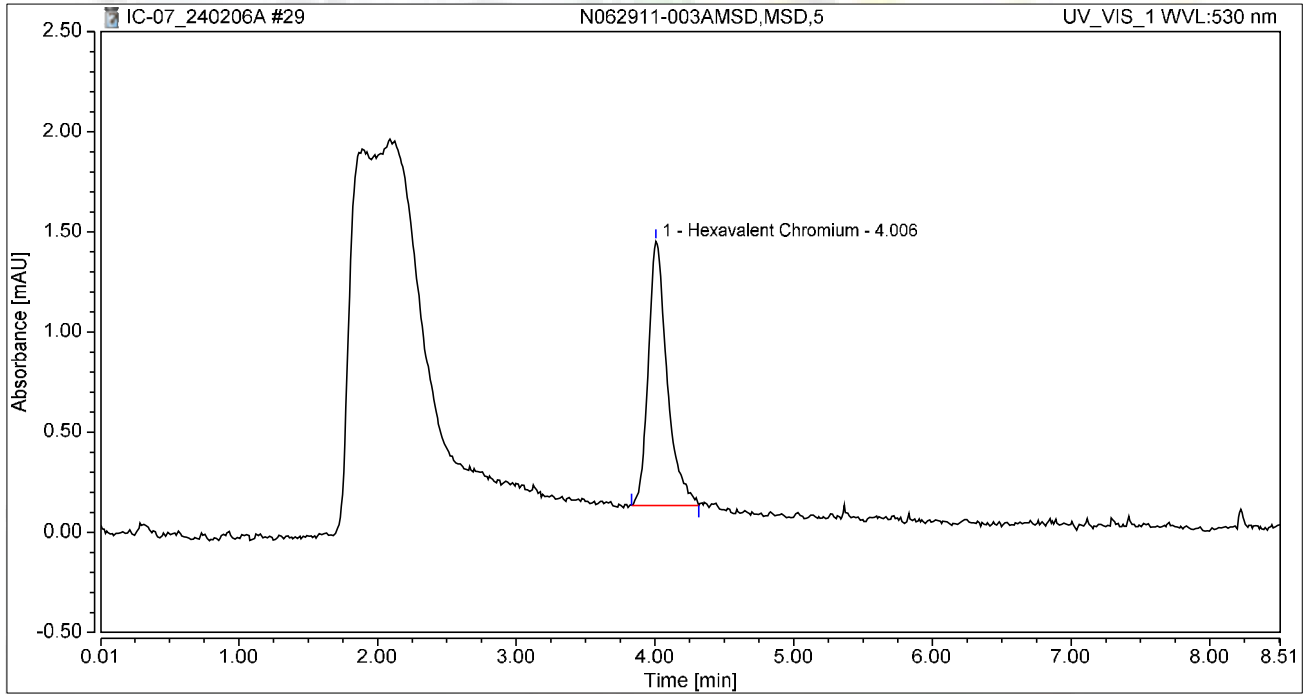
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.214	1.305	100.00	100.00	0.9932
Total:			0.214	1.305	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:26	Sample Weight:	1.0000

Chromatogram



Integration Results

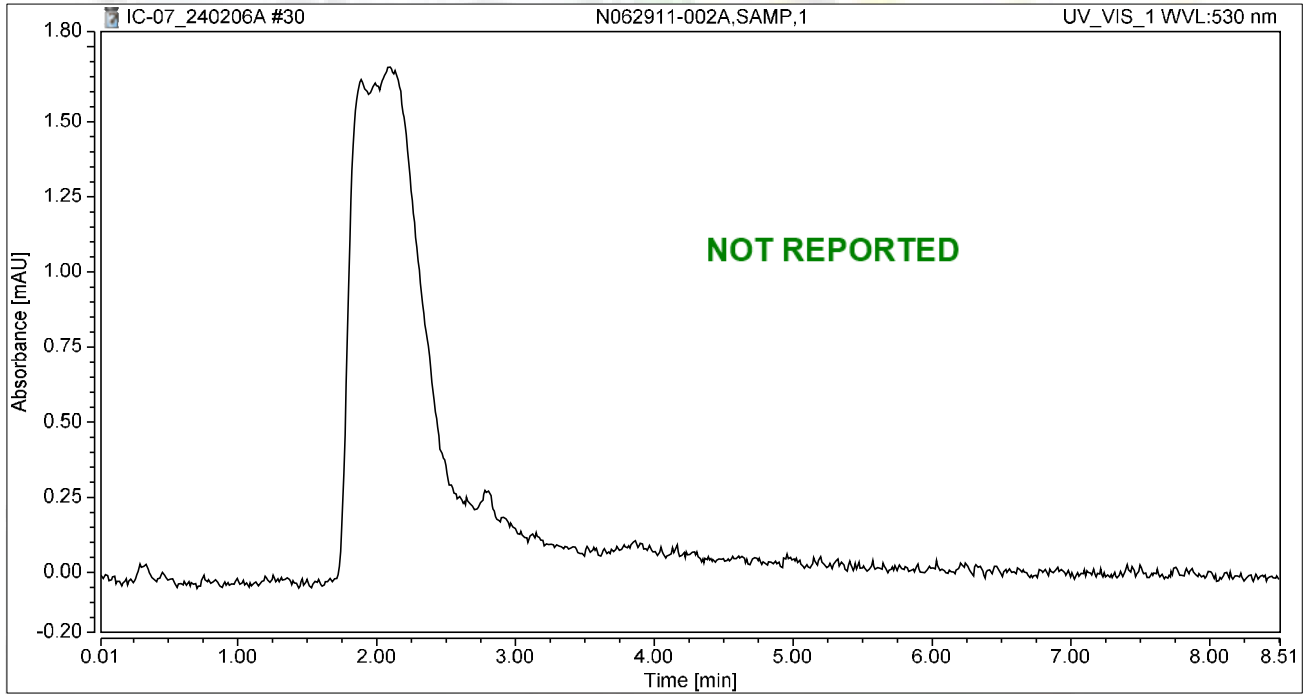
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.208	1.319	100.00	100.00	0.9651
Total:			0.208	1.319	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:35	Sample Weight:	1.0000

Chromatogram



Integration Results

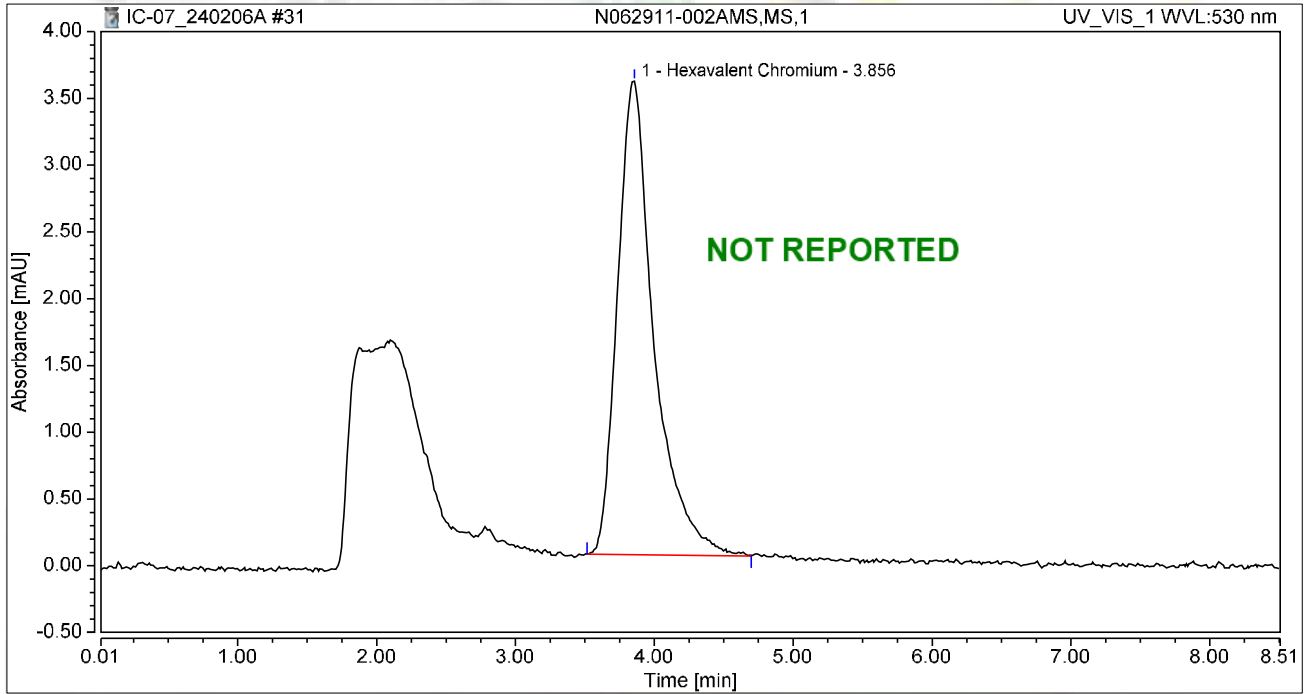
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:45	Sample Weight:	1.0000

Chromatogram



Integration Results

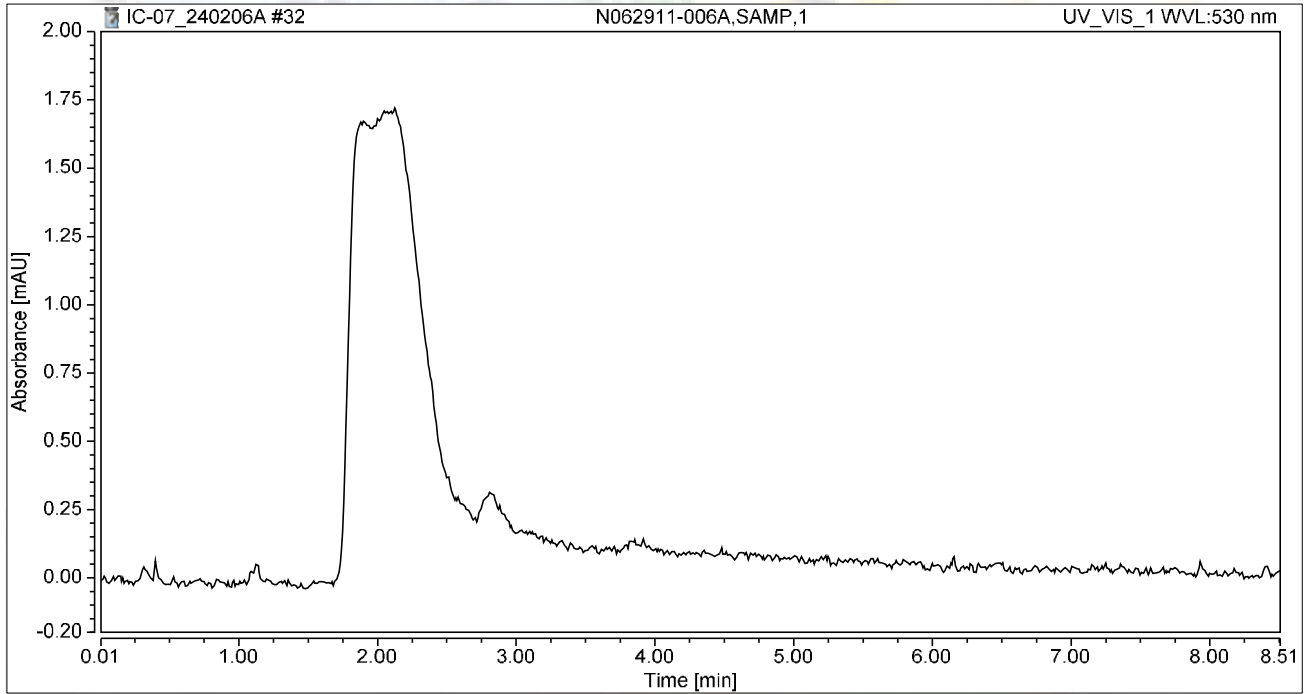
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	1.079	3.545	100.00	100.00	5.0167
Total:			1.079	3.545	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 13:54	Sample Weight:	1.0000

Chromatogram



Integration Results

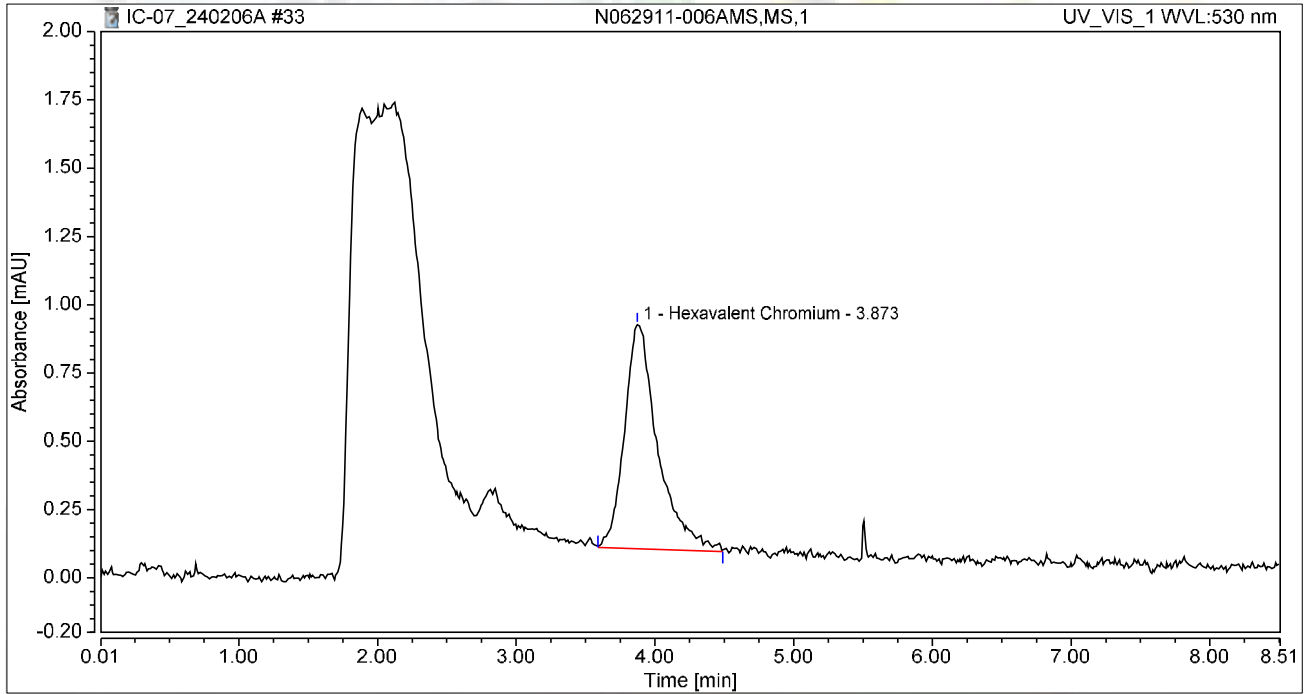
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:03	Sample Weight:	1.0000

Chromatogram



Integration Results

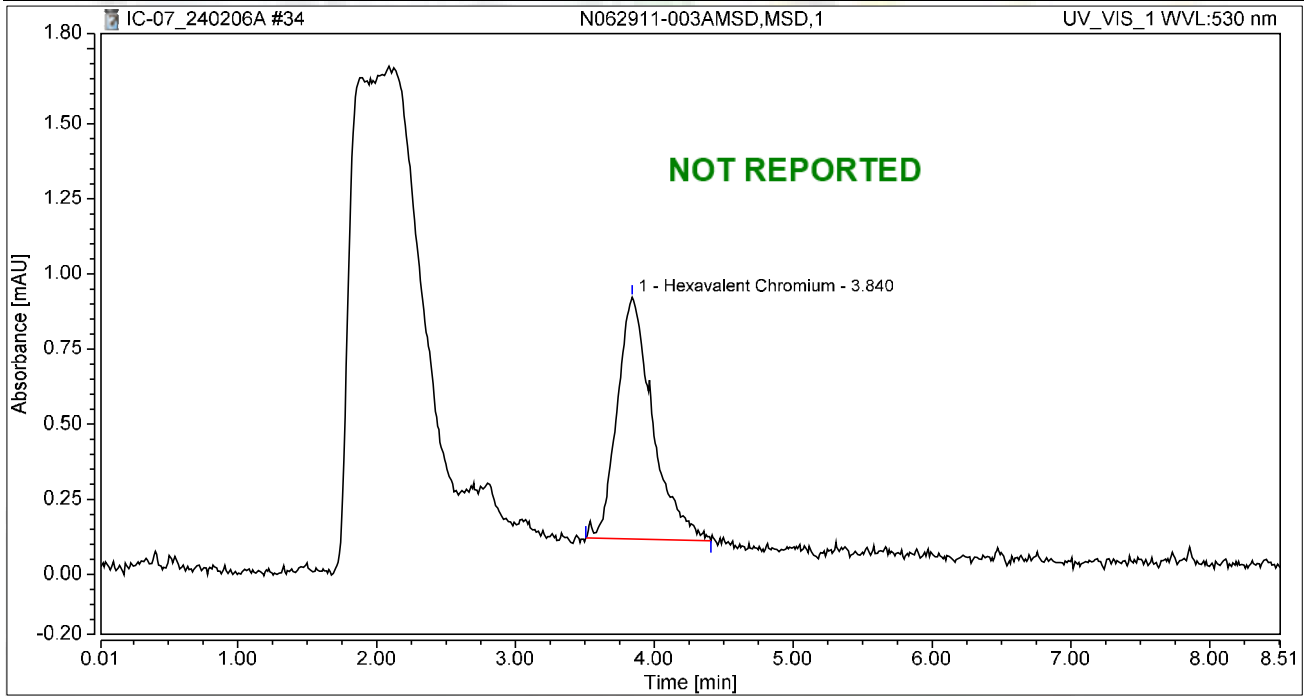
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.228	0.820	100.00	100.00	1.0609
Total:			0.228	0.820	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:13	Sample Weight:	1.0000

Chromatogram



Integration Results

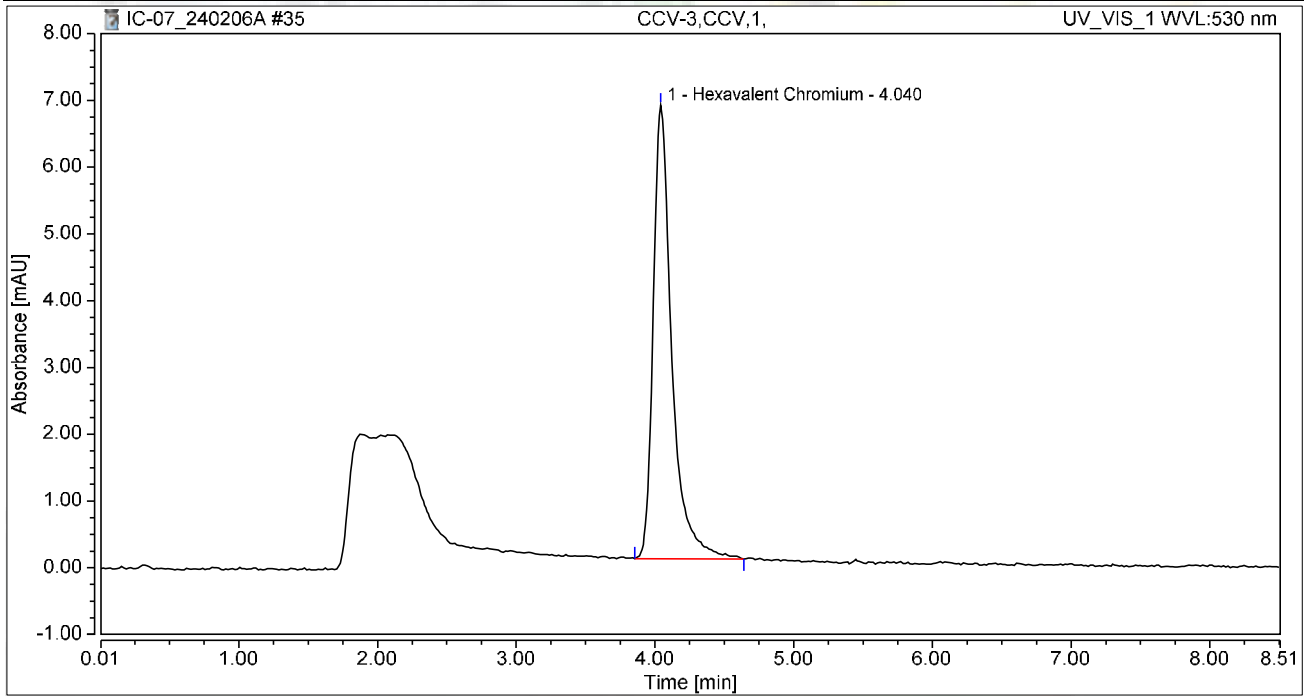
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.239	0.805	100.00	100.00	1.1110
Total:			0.239	0.805	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:22	Sample Weight:	1.0000

Chromatogram



Integration Results

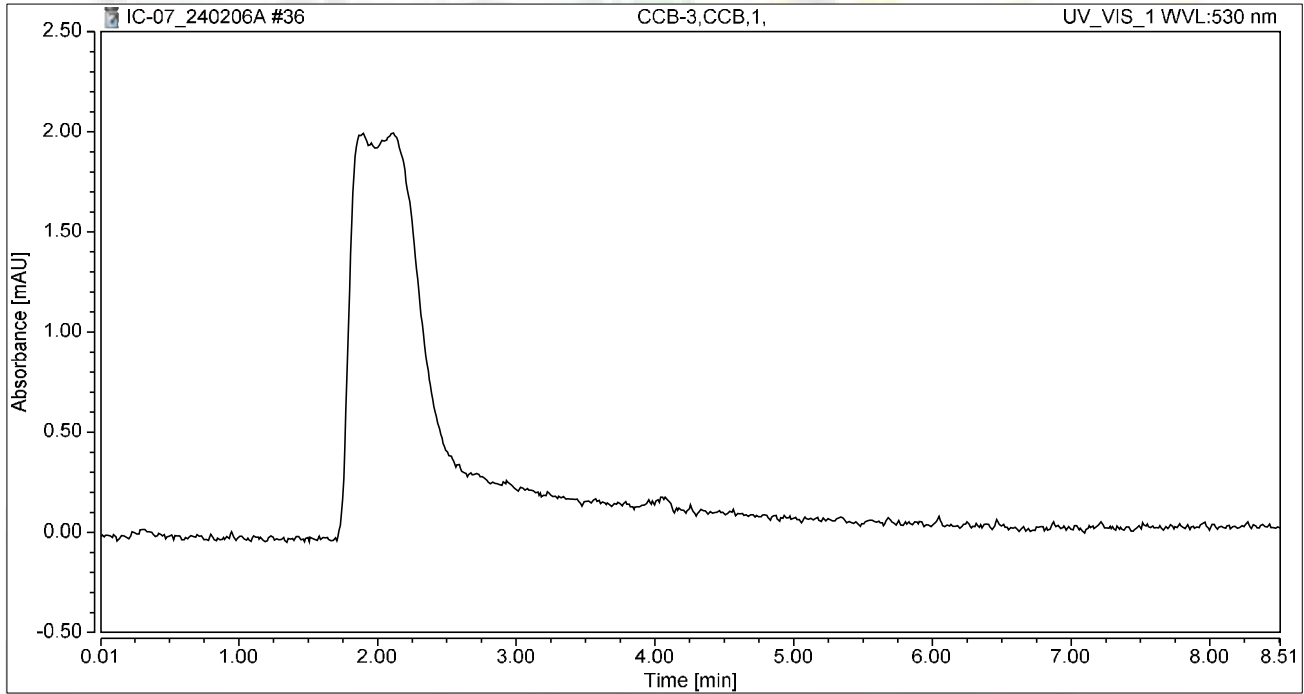
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.055	6.795	100.00	100.00	4.9033
Total:			1.055	6.795	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:32	Sample Weight:	1.0000

Chromatogram



Integration Results

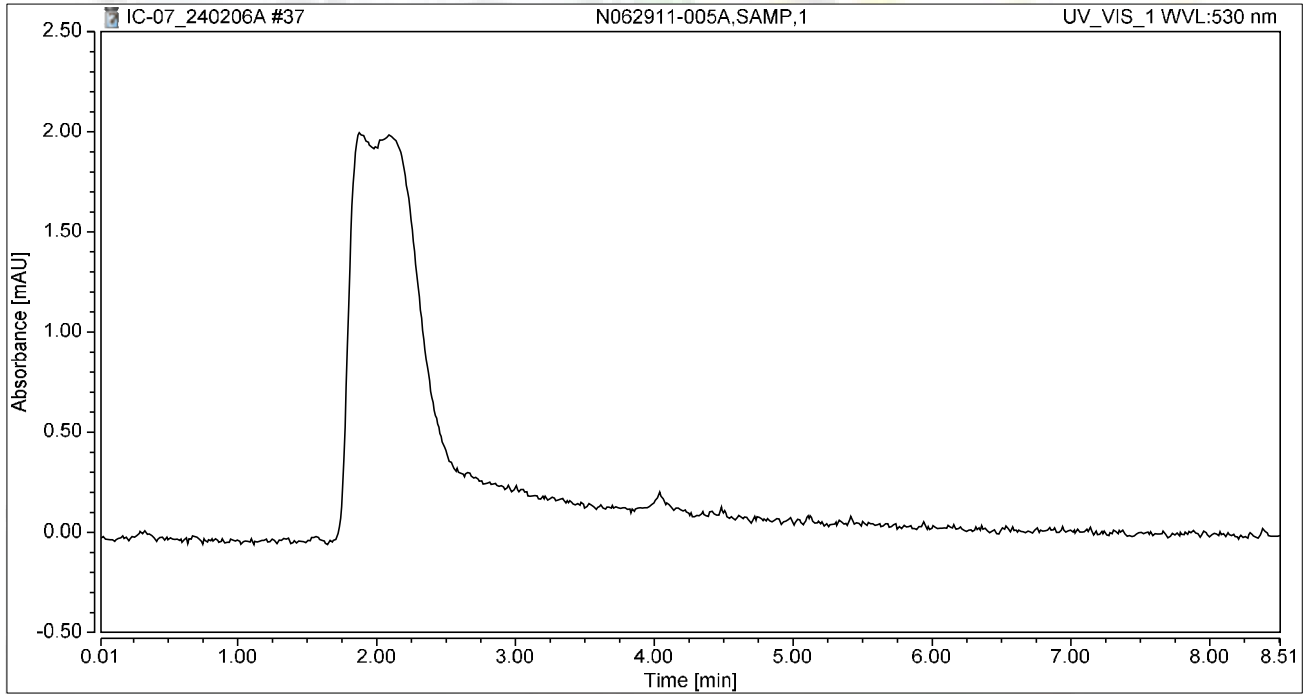
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:41	Sample Weight:	1.0000

Chromatogram



Integration Results

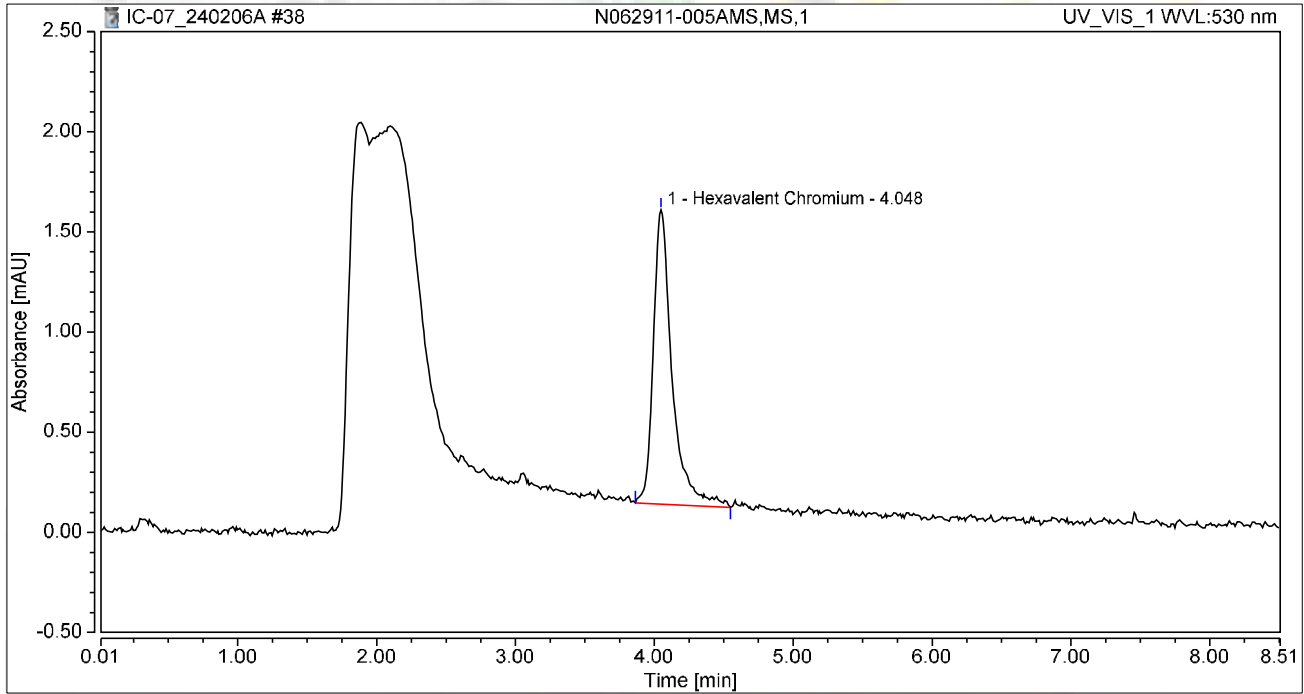
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 14:51	Sample Weight:	1.0000

Chromatogram



Integration Results

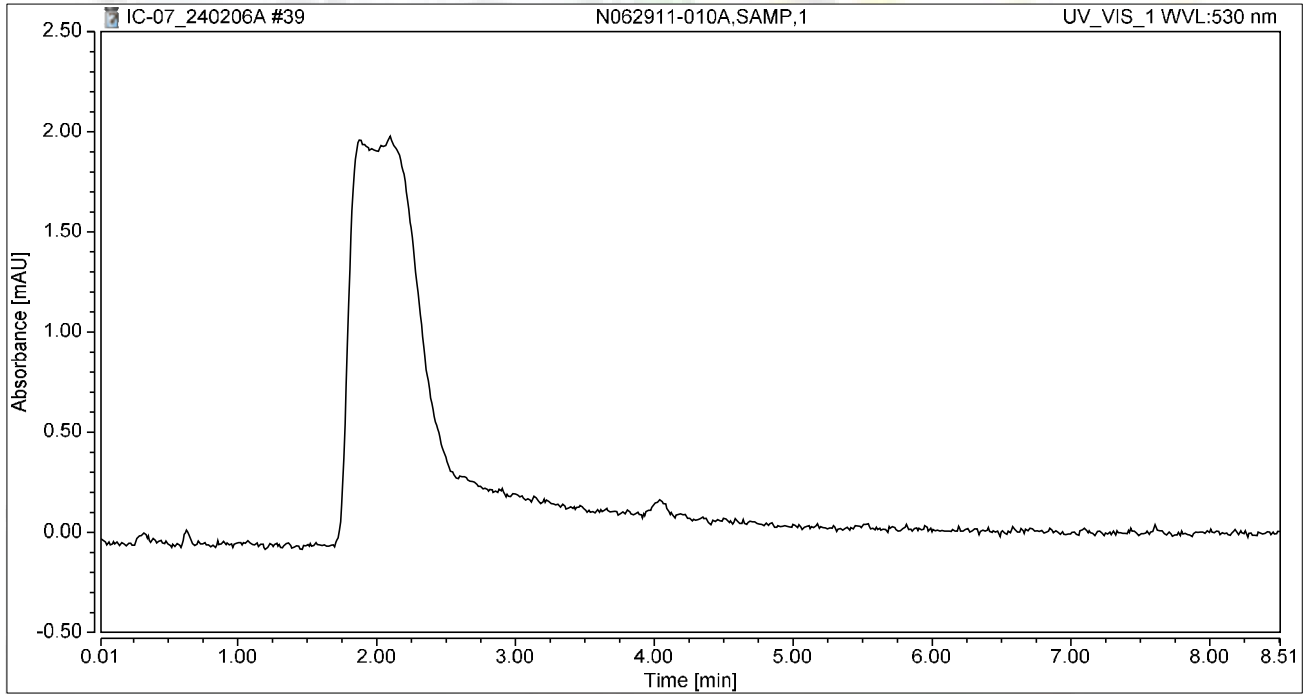
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.230	1.468	100.00	100.00	1.0684
Total:			0.230	1.468	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-010A,SAMP,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:00	Sample Weight:	1.0000

Chromatogram



Integration Results

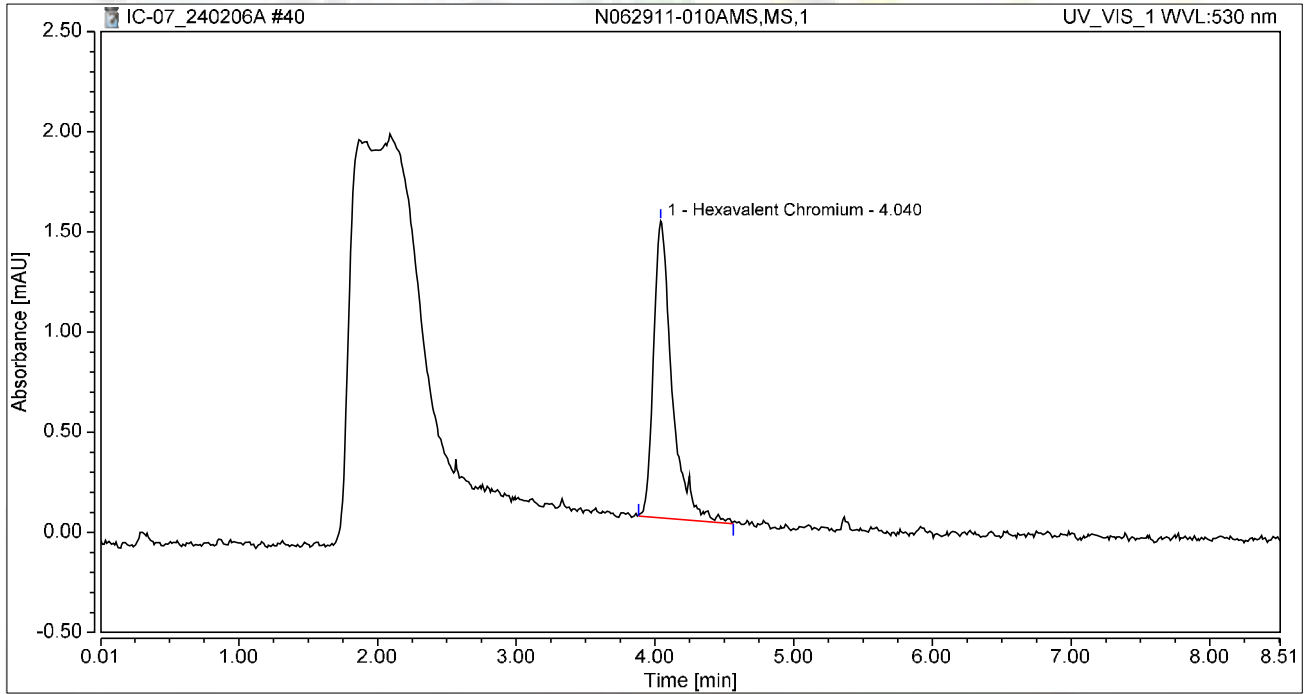
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:10	Sample Weight:	1.0000

Chromatogram



Integration Results

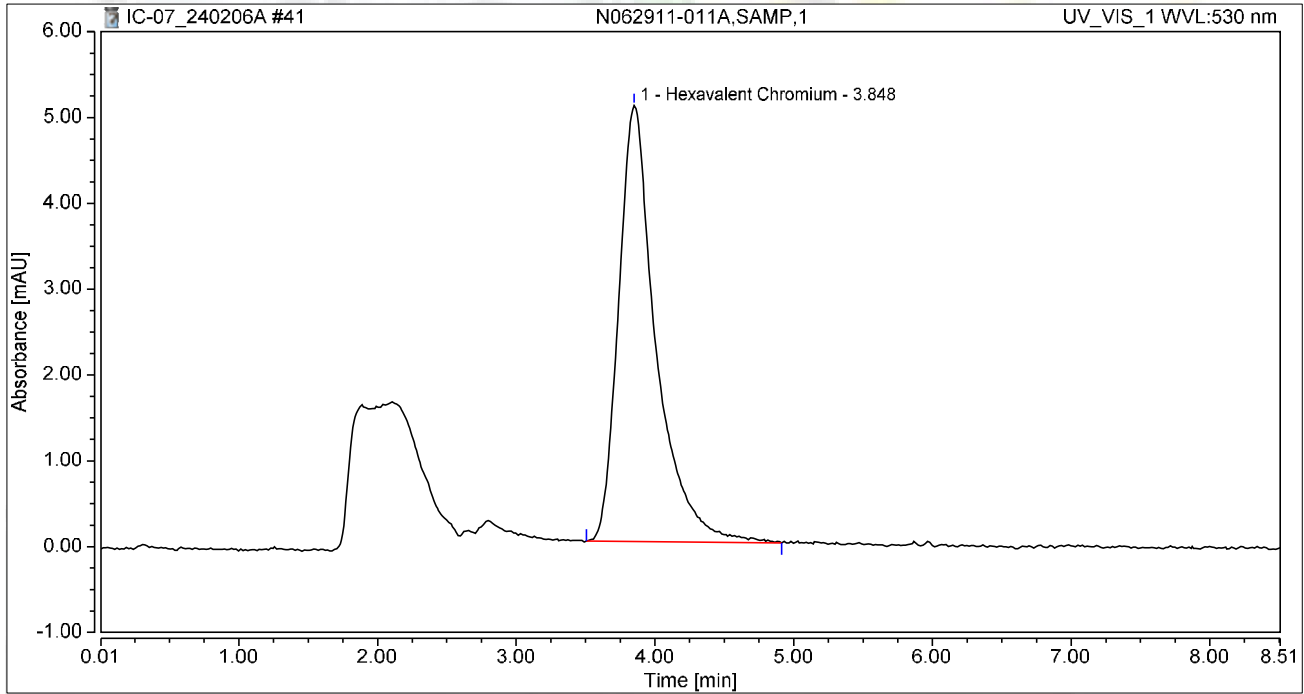
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.229	1.483	100.00	100.00	1.0657
Total:			0.229	1.483	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:19	Sample Weight:	1.0000

Chromatogram



Integration Results

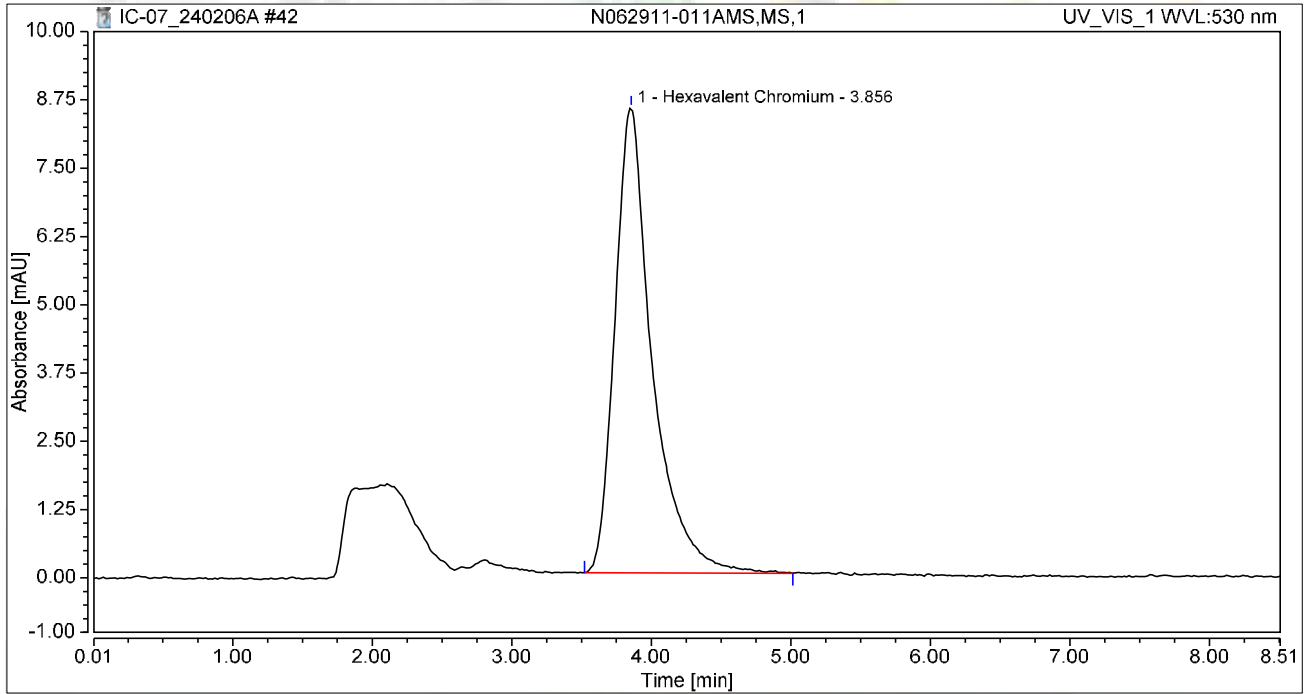
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	1.582	5.080	100.00	100.00	7.3568
Total:			1.582	5.080	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:29	Sample Weight:	1.0000

Chromatogram



Integration Results

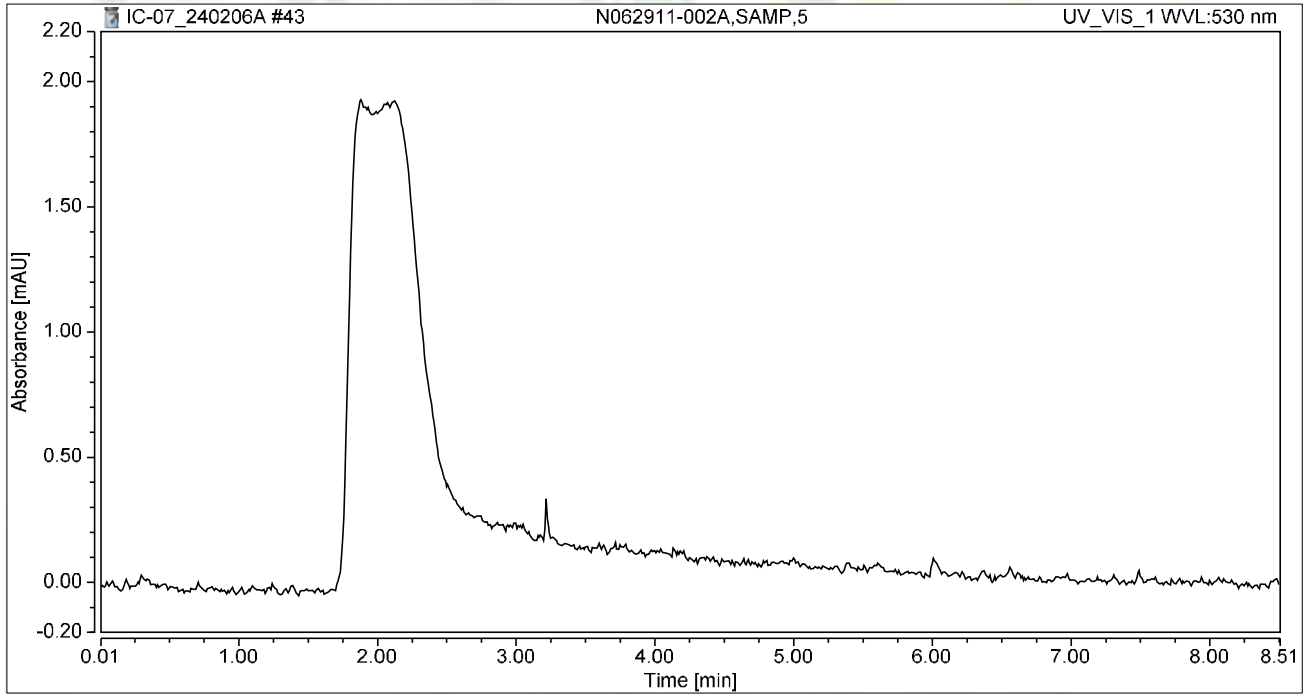
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	2.646	8.515	100.00	100.00	12.3005
Total:			2.646	8.515	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:38	Sample Weight:	1.0000

Chromatogram



Integration Results

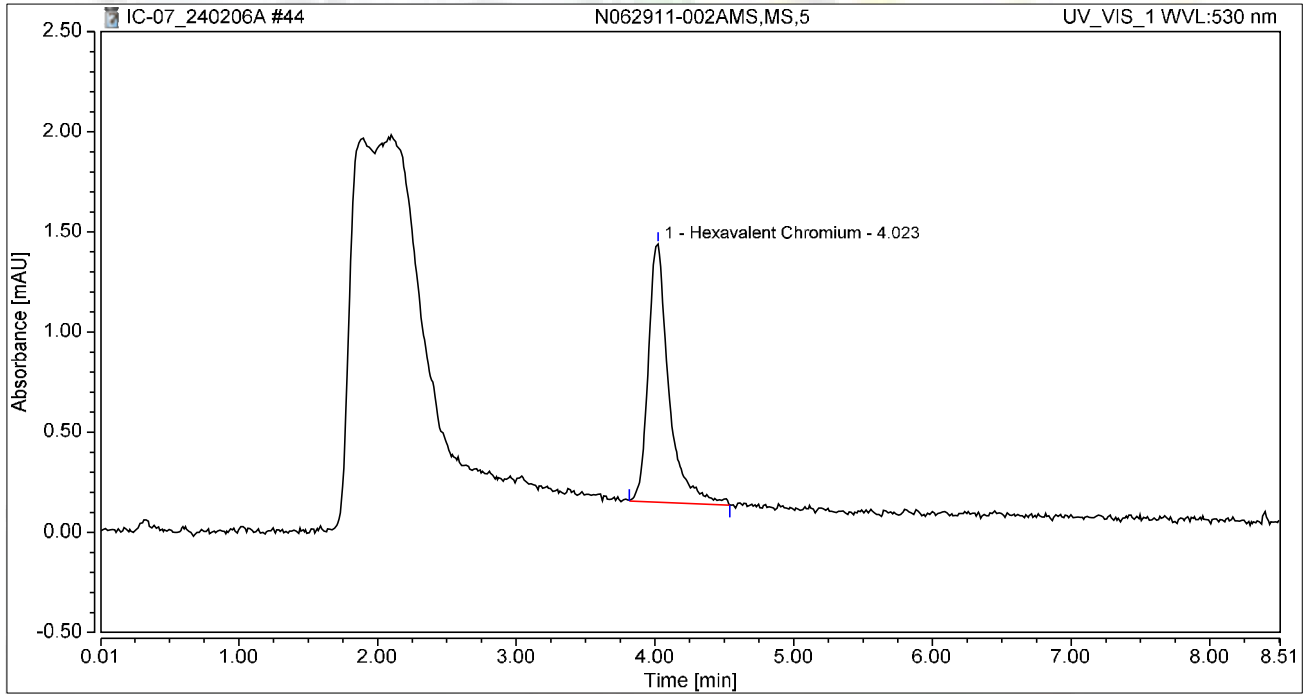
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

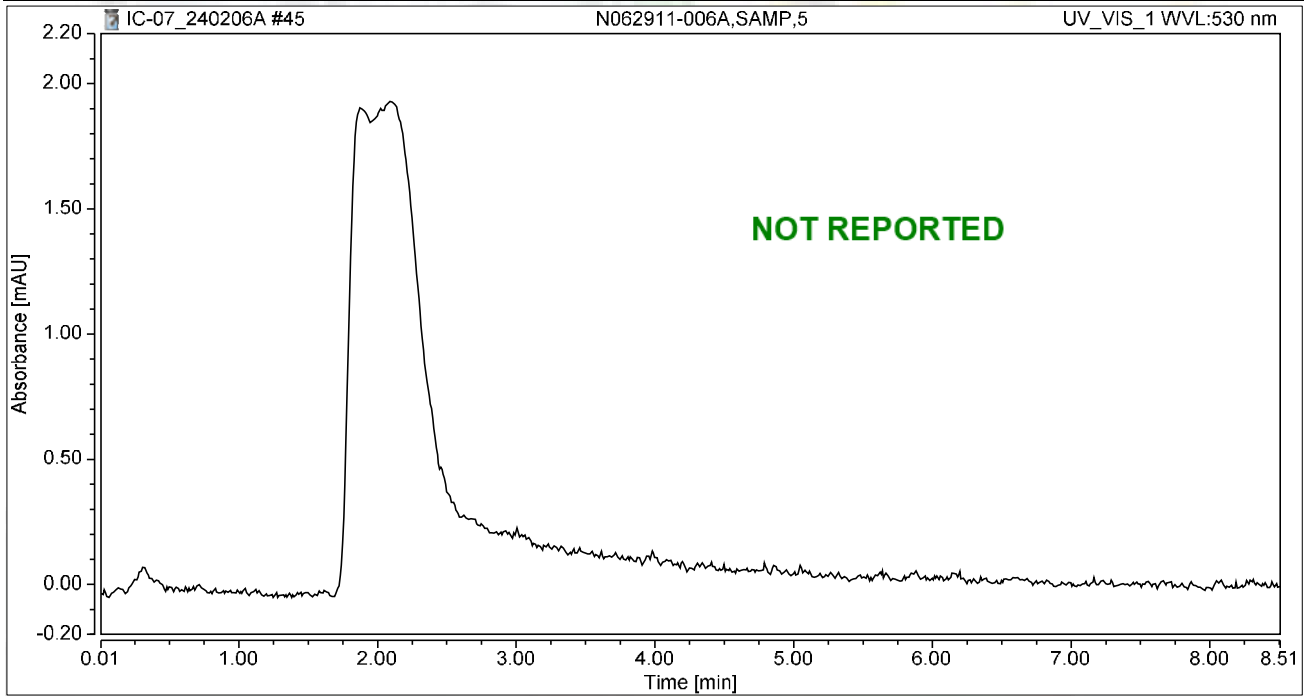
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.222	1.288	100.00	100.00	1.0317
Total:			0.222	1.288	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 15:57	Sample Weight:	1.0000

Chromatogram



Integration Results

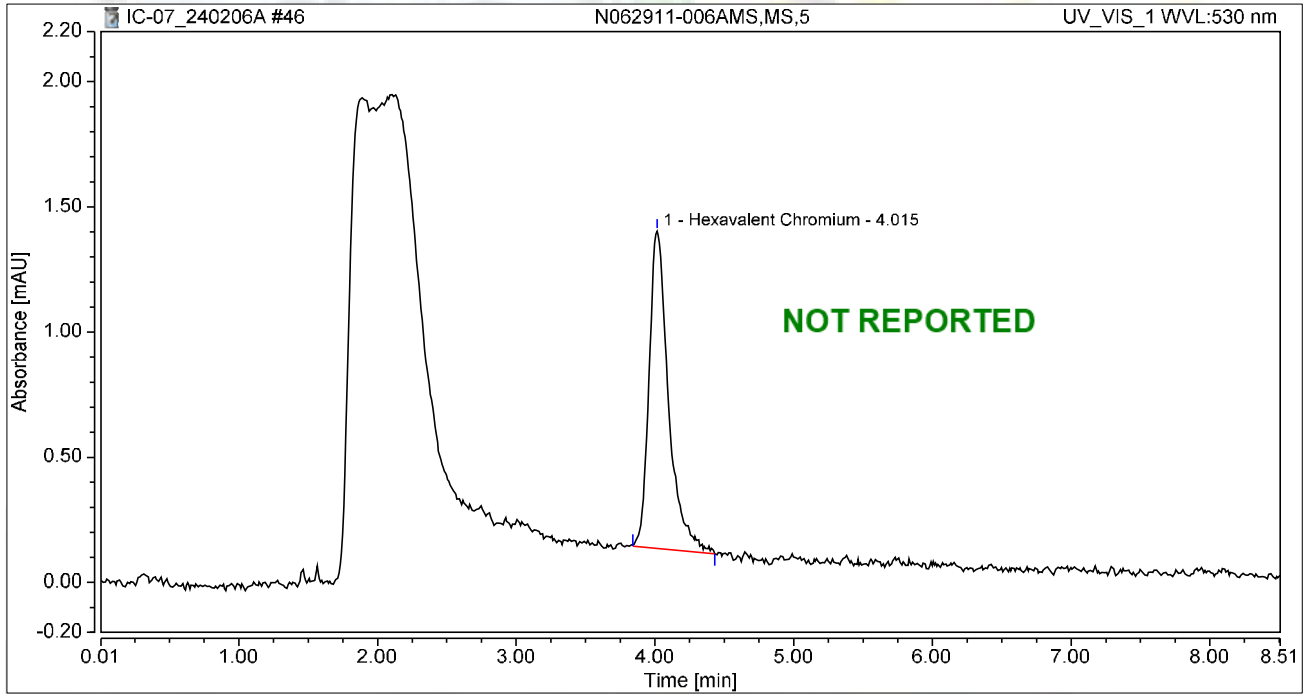
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:06	Sample Weight:	1.0000

Chromatogram



Integration Results

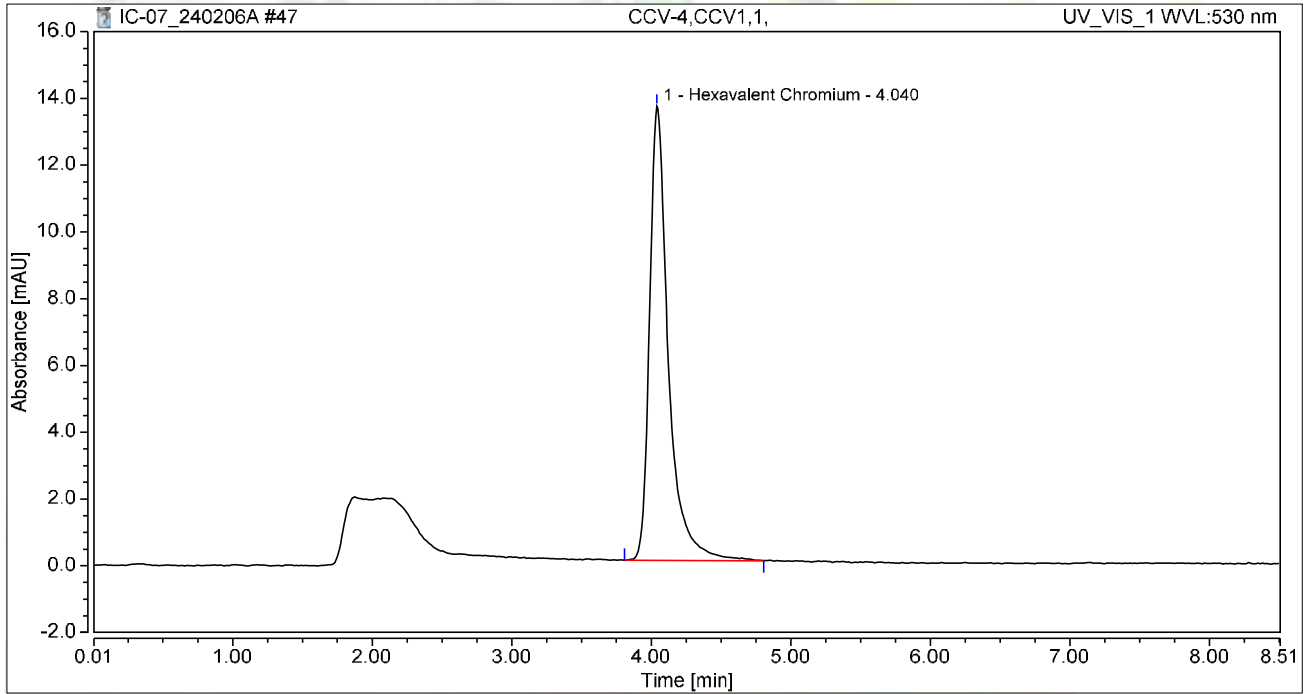
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.206	1.268	100.00	100.00	0.9575
Total:			0.206	1.268	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

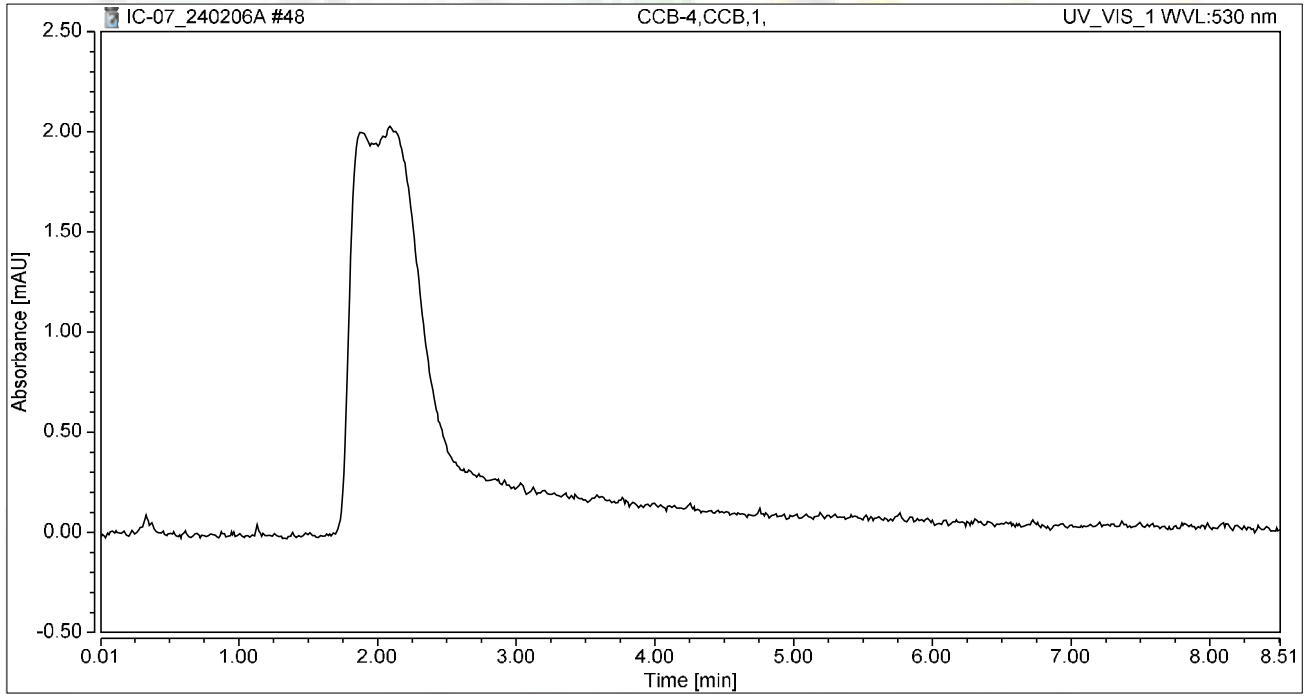
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.121	13.610	100.00	100.00	9.8625
Total:			2.121	13.610	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:25	Sample Weight:	1.0000

Chromatogram



Integration Results

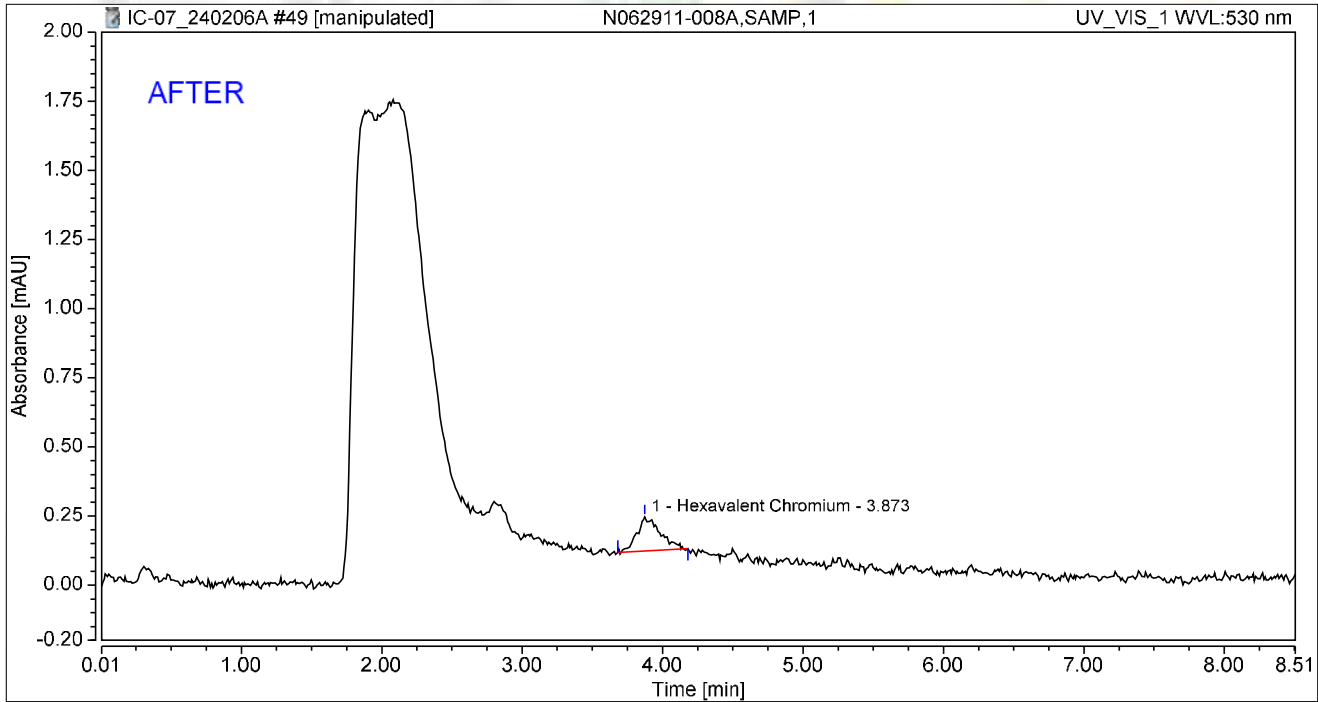
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.023	0.122	100.00	100.00	0.1063
Total:			0.023	0.122	100.00	100.00	

Reviewed by:

JRB

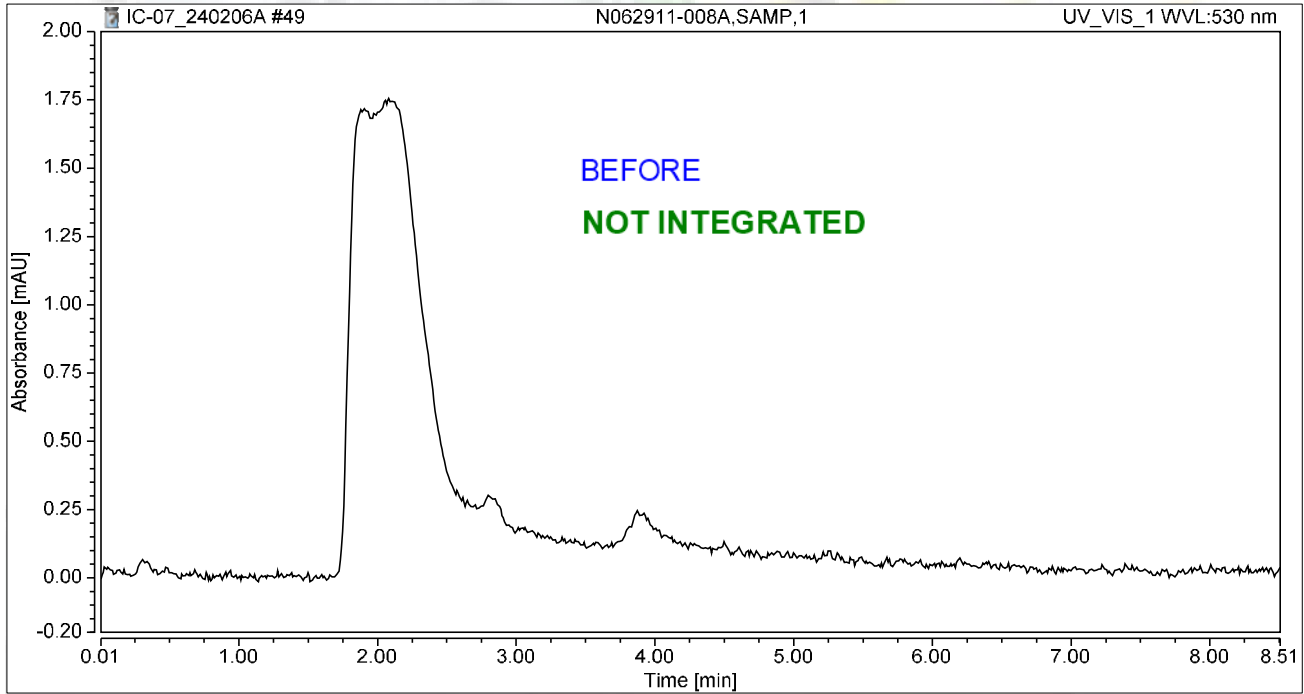
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	N062911-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

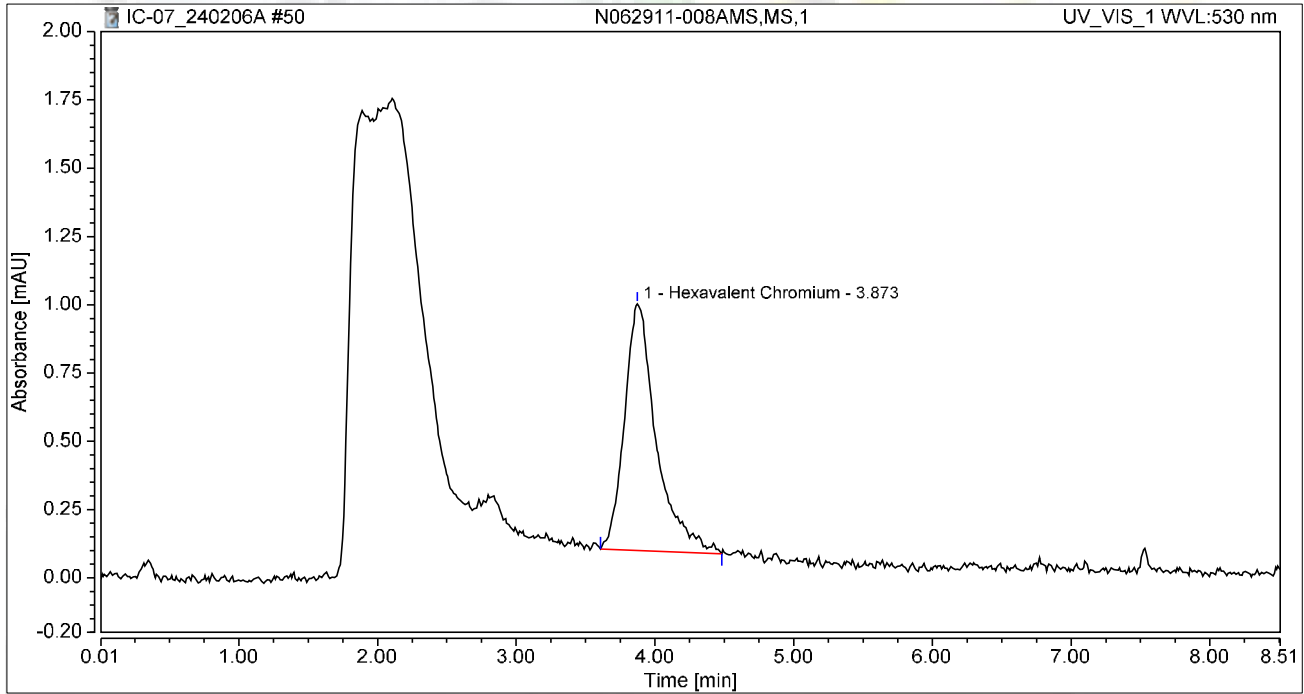
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:44	Sample Weight:	1.0000

Chromatogram



Integration Results

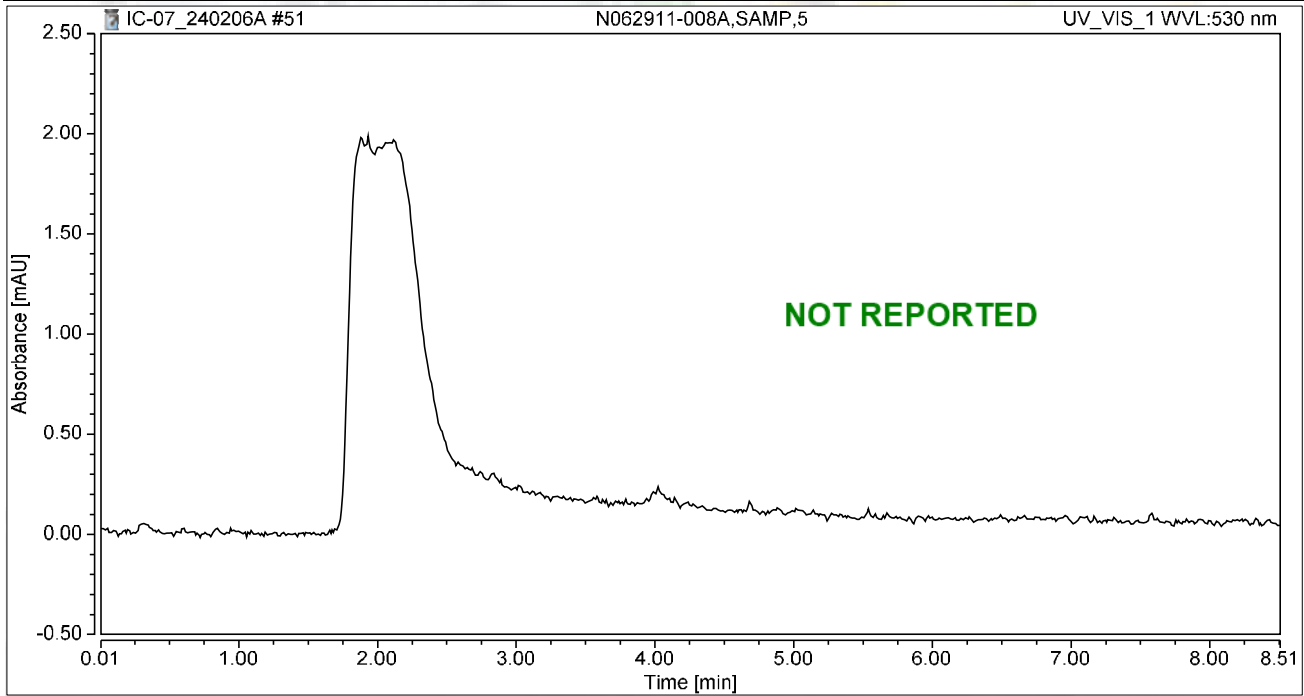
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.240	0.903	100.00	100.00	1.1152
Total:			0.240	0.903	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

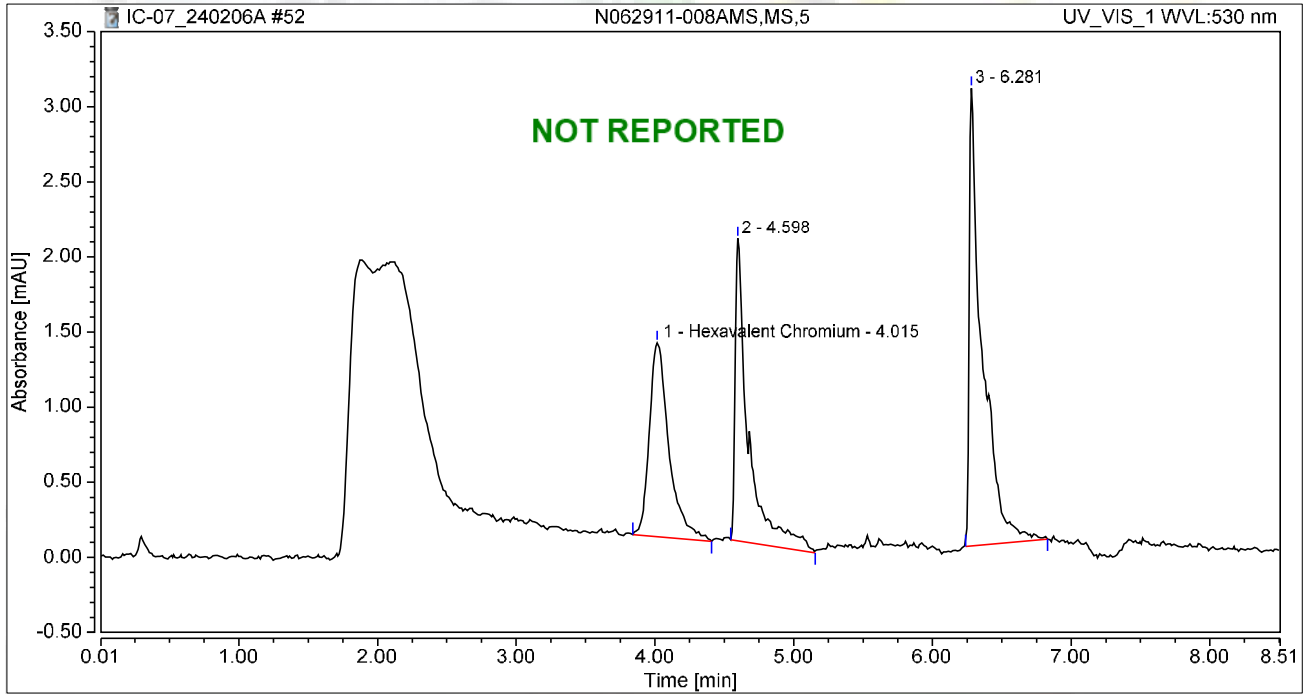
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:03	Sample Weight:	1.0000

Chromatogram



Integration Results

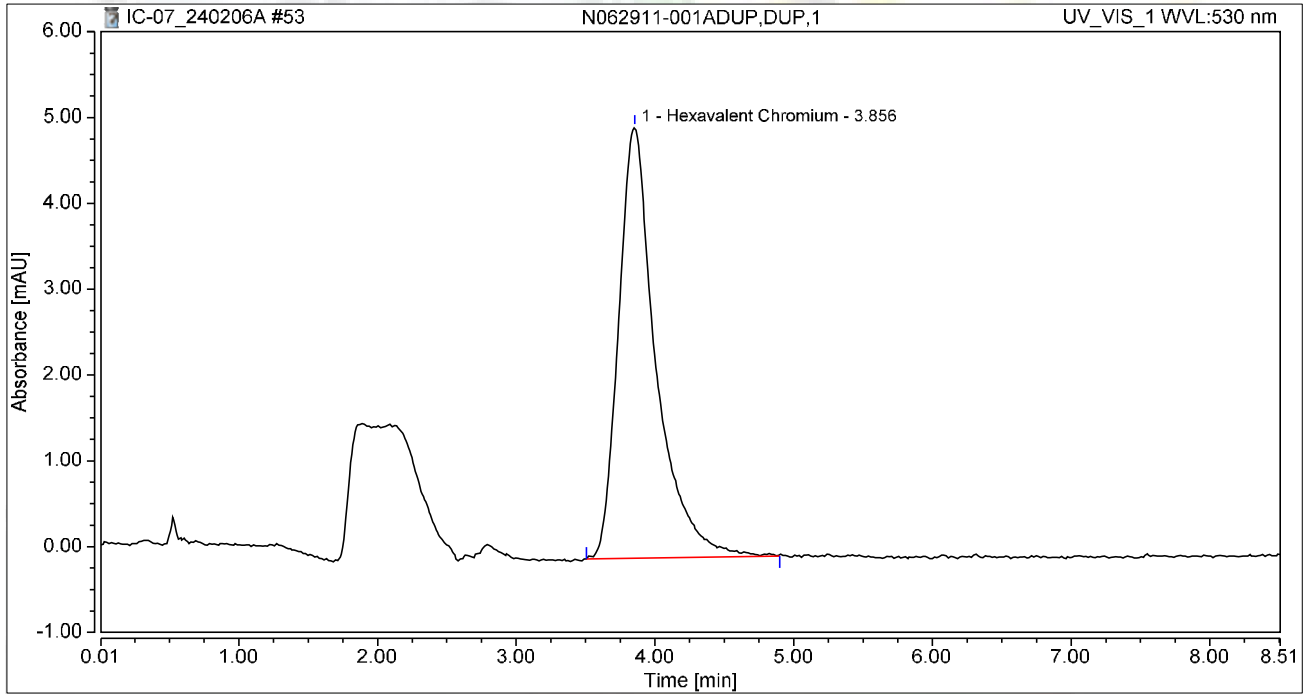
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.212	1.292	27.72	20.34	0.9838
2		4.598	0.220	2.011	28.83	31.68	n.a.
3		6.281	0.332	3.047	43.44	47.98	n.a.
Total:			0.763	6.350	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-001ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

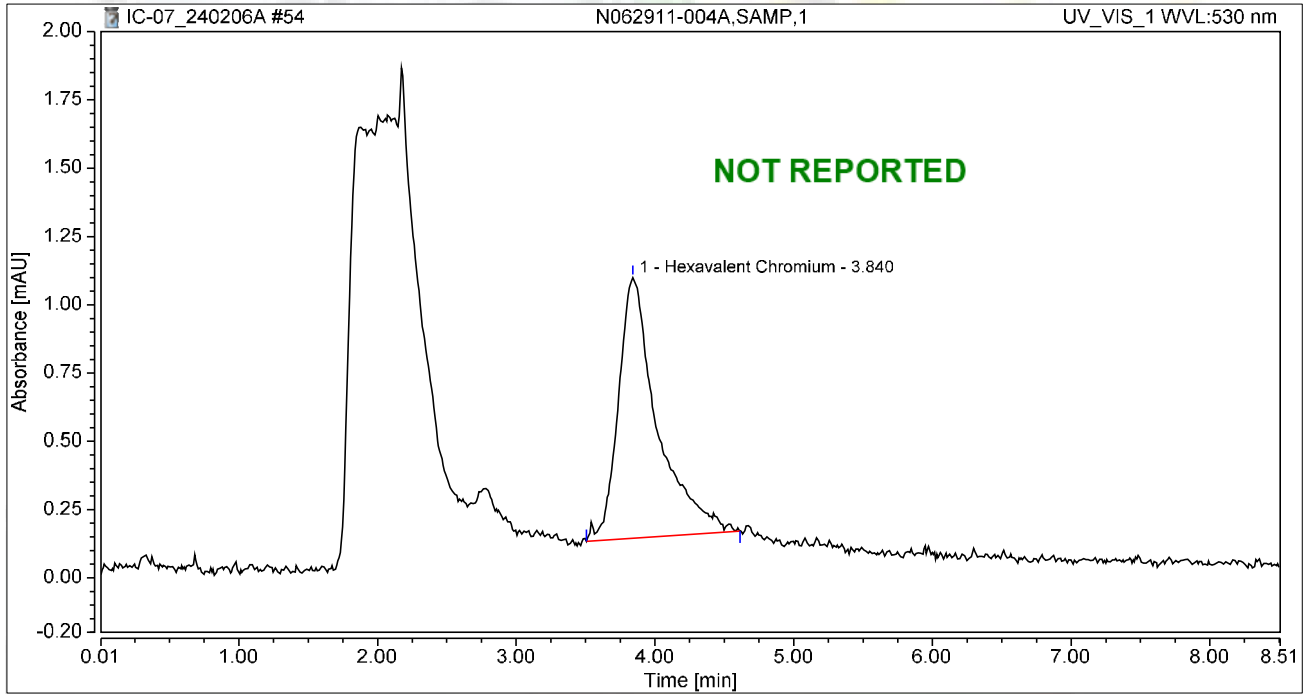
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	1.566	5.024	100.00	100.00	7.2792
Total:			1.566	5.024	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

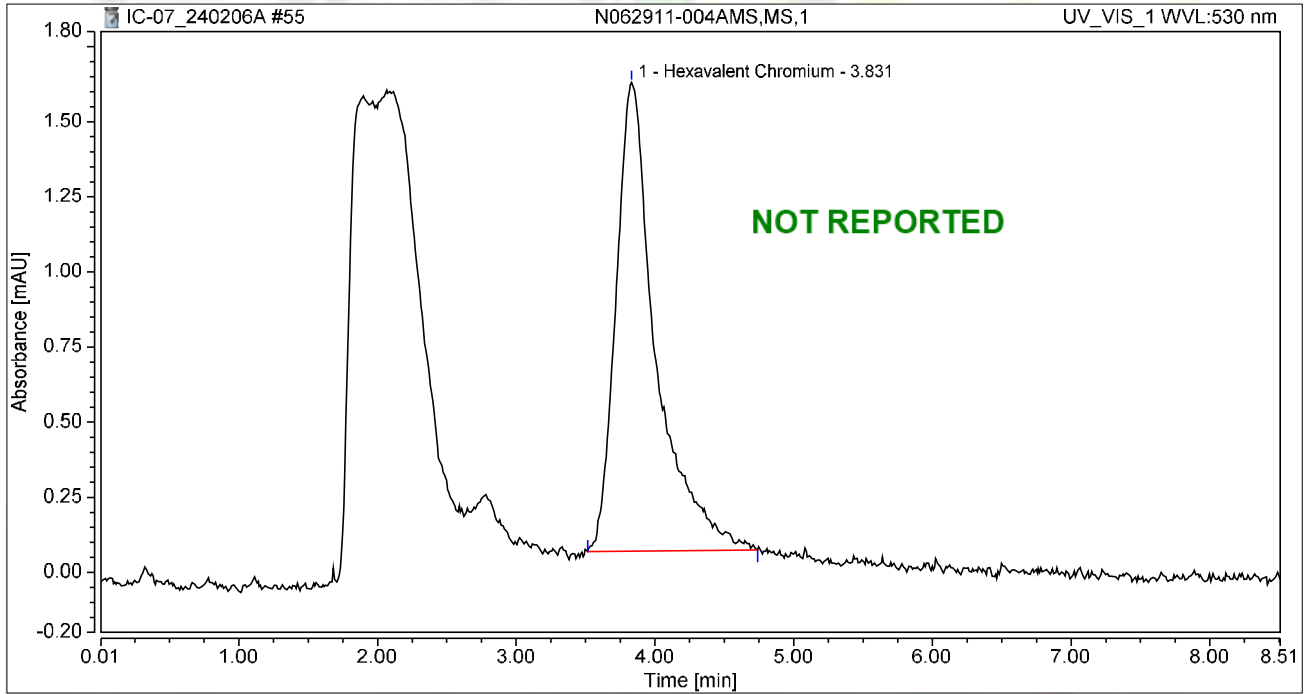
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.311	0.954	100.00	100.00	1.4470
Total:			0.311	0.954	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

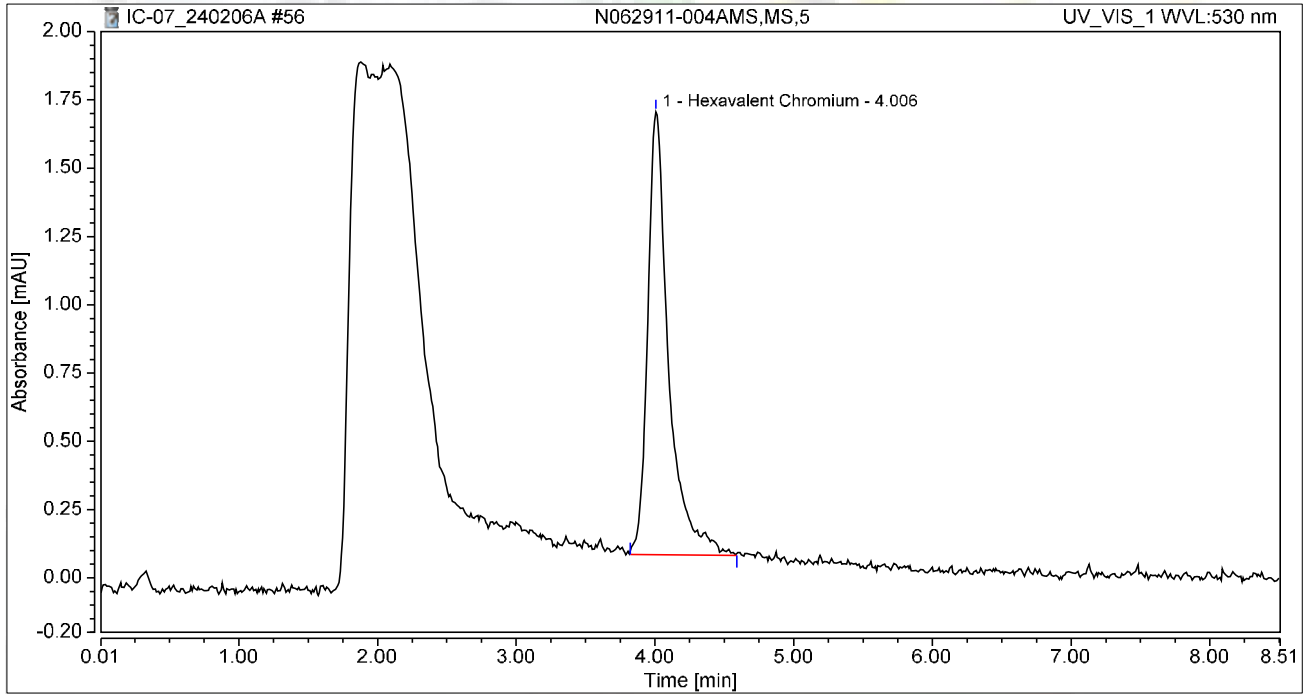
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.831	0.520	1.561	100.00	100.00	2.4190
Total:			0.520	1.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:41	Sample Weight:	1.0000

Chromatogram



Integration Results

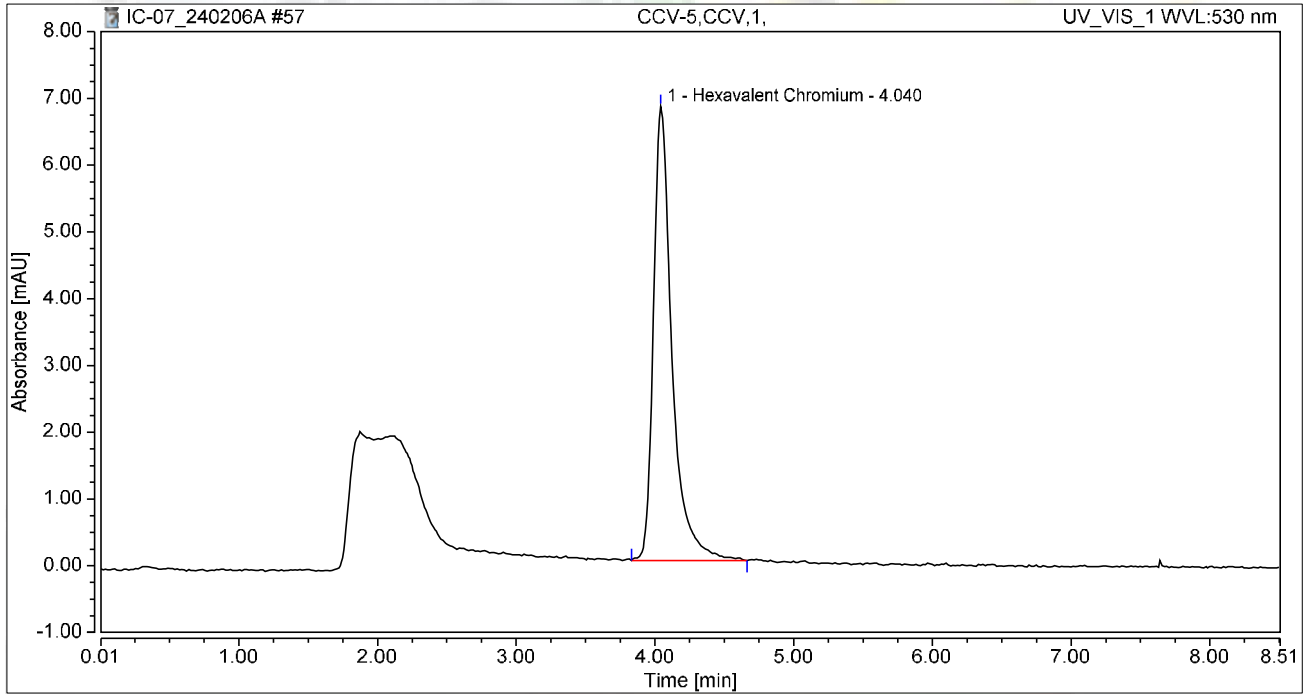
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.284	1.622	100.00	100.00	1.3193
Total:			0.284	1.622	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 17:50	Sample Weight:	1.0000

Chromatogram



Integration Results

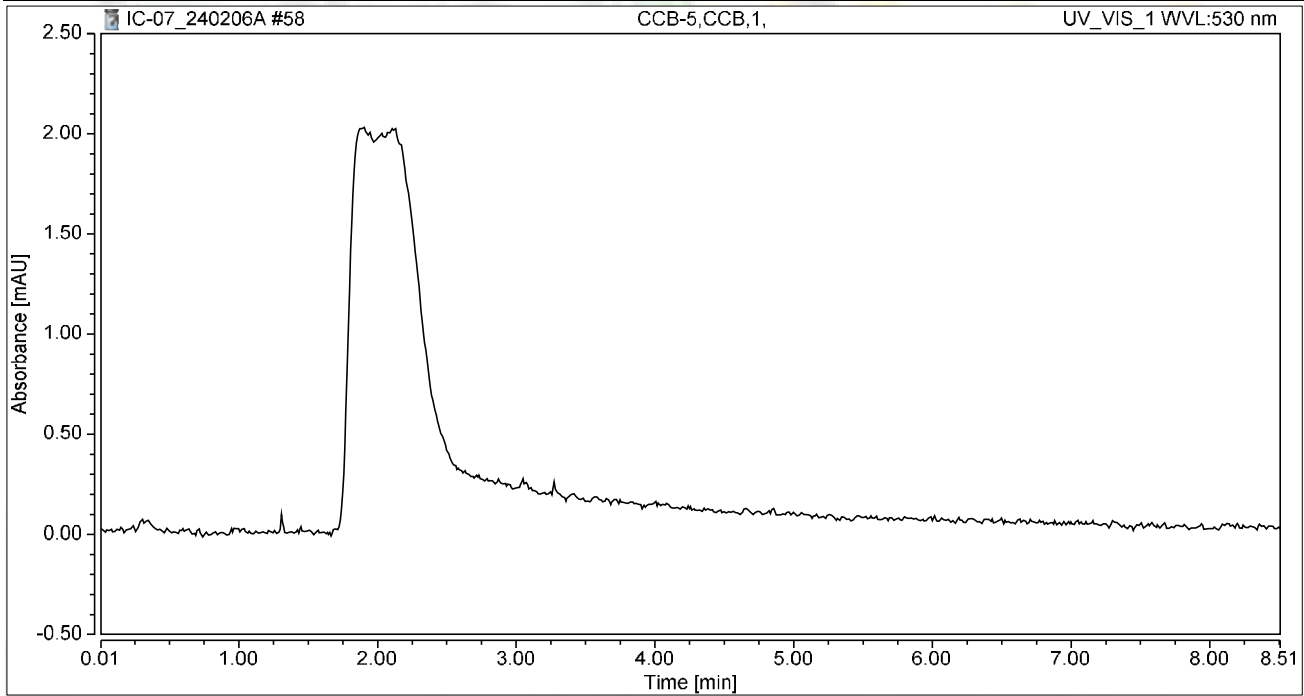
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.055	6.802	100.00	100.00	4.9064
Total:			1.055	6.802	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 18:00	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

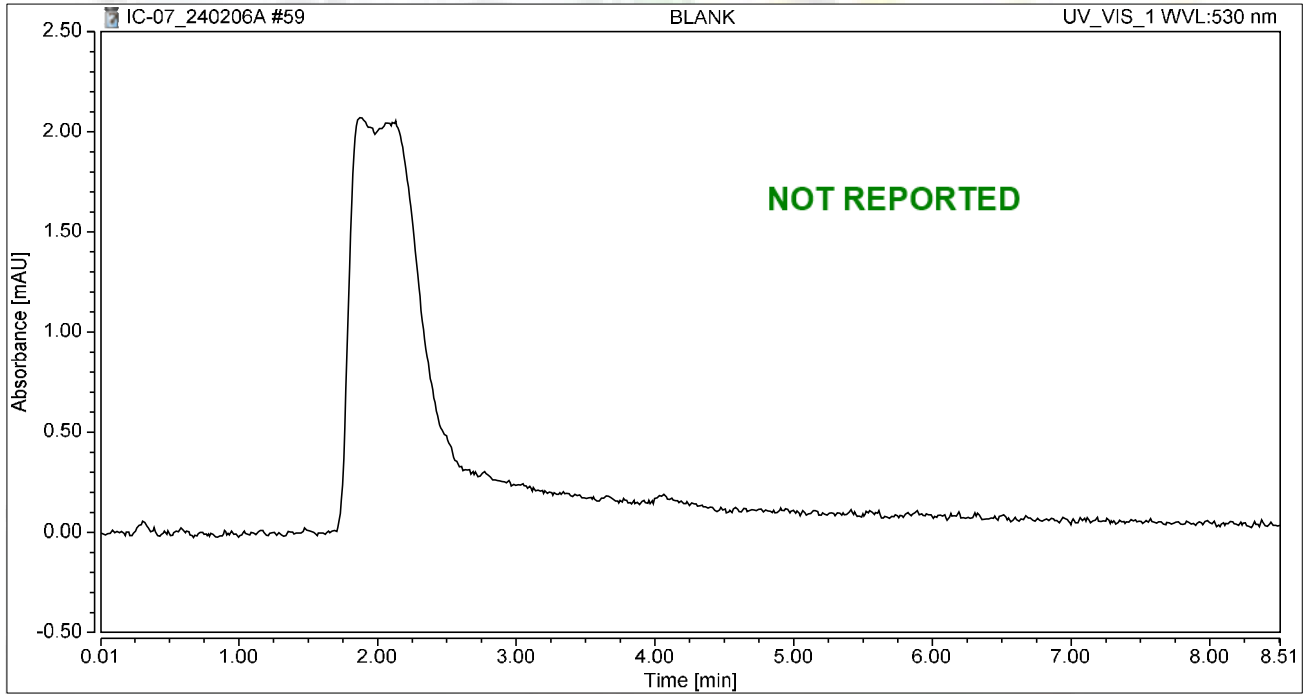
jrb 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	06/Feb/24 18:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691


"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/07/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/07/24 10:22 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/07/24 10:31 AM	Reported
13	MB-R181320	MBLK	1	Hexavalent Chromium	02/07/24 10:40 AM	Reported
14	LCS-R181320	LCS	1	Hexavalent Chromium	02/07/24 10:50 AM	Reported
15	N062938-004A	SAMP	1	Hexavalent Chromium	02/07/24 11:08 AM	Not Reported
16	N062938-004AMS	MS	1	Hexavalent Chromium	02/07/24 11:19 AM	Not Reported
17	N062938-001A	SAMP	1	Hexavalent Chromium	02/07/24 11:28 AM	Reported
18	N062938-001AMS	MS	1	Hexavalent Chromium	02/07/24 11:37 AM	Reported
19	N062938-002A	SAMP	5	Hexavalent Chromium	02/07/24 11:47 AM	Reported
20	N062938-002AMS	MS	5	Hexavalent Chromium	02/07/24 11:56 AM	Reported
21	N062938-008A	SAMP	1	Hexavalent Chromium	02/07/24 12:06 PM	Reported
22	N062938-008AMS	MS	1	Hexavalent Chromium	02/07/24 12:15 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/07/24 12:25 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/07/24 12:34 PM	Reported
25	N062938-003A	SAMP	5	Hexavalent Chromium	02/07/24 12:44 PM	Reported
26	N062938-003AMS	MS	5	Hexavalent Chromium	02/07/24 12:53 PM	Reported
27	N062938-005A	SAMP	1	Hexavalent Chromium	02/07/24 1:03 PM	Not Reported
28	N062938-005AMS	MS	1	Hexavalent Chromium	02/07/24 1:12 PM	Not Reported
29	N062938-006A	SAMP	1	Hexavalent Chromium	02/07/24 1:22 PM	Not Reported
30	N062938-006AMS	MS	1	Hexavalent Chromium	02/07/24 1:31 PM	Not Reported
31	N062938-016A	SAMP	5	Hexavalent Chromium	02/07/24 1:46 PM	Not Reported
32	N062938-016AMS	MS	5	Hexavalent Chromium	02/07/24 1:57 PM	Not Reported
33	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 2:07 PM	Not Reported
34	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 2:16 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/07/24 2:26 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/07/24 2:35 PM	Reported
37	N062938-004A	SAMP	5	Hexavalent Chromium	02/07/24 2:56 PM	Reported
38	N062938-004AMS	MS	5	Hexavalent Chromium	02/07/24 3:08 PM	Reported
39	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 3:18 PM	Not Reported
40	N062938-004ADUP	DUP	5	Hexavalent Chromium	02/07/24 3:27 PM	Reported
41	N062938-015A	SAMP	1	Hexavalent Chromium	02/07/24 3:36 PM	Not Reported
42	N062938-015AMS	MS	1	Hexavalent Chromium	02/07/24 3:46 PM	Not Reported

Reviewed by:

 2/20/2024

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062938-010A	SAMP	1	Hexavalent Chromium	02/07/24 3:55 PM	Reported
44	N062938-010AMS	MS	1	Hexavalent Chromium	02/07/24 4:05 PM	Reported
45	N062938-012A	SAMP	1	Hexavalent Chromium	02/07/24 4:14 PM	Reported
46	N062938-012AMS	MS	1	Hexavalent Chromium	02/07/24 4:24 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/07/24 4:33 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/07/24 4:43 PM	Reported
49	N062938-007A	SAMP	1	Hexavalent Chromium	02/07/24 4:52 PM	Reported
50	N062938-007AMS	MS	1	Hexavalent Chromium	02/07/24 5:02 PM	Reported
51	N062938-013A	SAMP	1	Hexavalent Chromium	02/07/24 5:11 PM	Reported
52	N062938-013AMS	MS	1	Hexavalent Chromium	02/07/24 5:21 PM	Reported
53	N062938-018A	SAMP	1	Hexavalent Chromium	02/07/24 5:30 PM	Reported
54	N062938-018AMS	MS	1	Hexavalent Chromium	02/07/24 5:40 PM	Reported
55	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 5:49 PM	Not Reported
56	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 5:59 PM	Not Reported
57	N062938-011A	SAMP	1	Hexavalent Chromium	02/07/24 6:08 PM	Reported
58	N062938-011AMS	MS	1	Hexavalent Chromium	02/07/24 6:18 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/07/24 6:27 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/07/24 6:36 PM	Reported
61	N062938-019A	SAMP	1	Hexavalent Chromium	02/07/24 6:46 PM	Reported
62	N062938-019AMS	MS	1	Hexavalent Chromium	02/07/24 6:55 PM	Reported
63	N062938-017A	SAMP	5	Hexavalent Chromium	02/07/24 7:05 PM	Reported
64	N062938-017AMS	MS	5	Hexavalent Chromium	02/07/24 7:14 PM	Reported
65	N062938-005A	SAMP	5	Hexavalent Chromium	02/07/24 7:24 PM	Reported
66	N062938-005AMS	MS	5	Hexavalent Chromium	02/07/24 7:33 PM	Reported
67	N062938-006A	SAMP	5	Hexavalent Chromium	02/07/24 7:46 PM	Reported
68	N062938-006AMS	MS	5	Hexavalent Chromium	02/07/24 7:56 PM	Reported
69	N062938-007A	SAMP	5	Hexavalent Chromium	02/07/24 8:05 PM	Not Reported
70	N062938-007AMS	MS	5	Hexavalent Chromium	02/07/24 8:14 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/07/24 8:24 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/07/24 8:33 PM	Reported
73	N062911-002A	SAMP	1	Hexavalent Chromium	02/07/24 8:43 PM	Reported
74	N062911-002AMS	MS	1	Hexavalent Chromium	02/07/24 8:52 PM	Reported
75	N062938-016A	SAMP	20	Hexavalent Chromium	02/07/24 9:02 PM	Reported
76	N062938-016AMS	MS	20	Hexavalent Chromium	02/07/24 9:11 PM	Reported
77	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 9:53 PM	Reported
78	CCV-7	CCV	1	Hexavalent Chromium	02/07/24 10:11 PM	Reported
79	CCB-7	CCB	1	Hexavalent Chromium	02/07/24 10:22 PM	Reported
80	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 10:31 PM	Reported
81	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 10:41 PM	Reported
82	N062938-015A	SAMP	10	Hexavalent Chromium	02/07/24 10:50 PM	Reported
83	N062938-015AMS	MS	10	Hexavalent Chromium	02/07/24 10:59 PM	Reported
84	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 11:09 PM	Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 11:18 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	02/07/24 11:28 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	02/07/24 11:37 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 11:47 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240207A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	08/Feb/24 00:17:33
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/07/2024 09:22	Finished	BLANK
10	CCV-1,CCV,1,	1	1000	Unknown		02/07/2024 10:11	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	2	1000	Unknown		02/07/2024 10:22	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	3	1000	Unknown		02/07/2024 10:31	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	4	1000	Unknown		02/07/2024 10:40	Finished	MB R240103B
14	LCS-H2O,LCS,1,	5	1000	Unknown		02/07/2024 10:50	Finished	LCS @5ppb, IWST-231228B
15	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 11:08	Finished	SAMP,10 mL
16	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 11:19	Finished	MS (5ppb), IWST-231228B,10r
17	N062938-001A,SAMF	3	1000	Unknown		02/07/2024 11:28	Finished	SAMP,10 mL
18	N062938-001AMS,M\$	4	1000	Unknown		02/07/2024 11:37	Finished	MS (1ppb), IWST-231228B,10r
19	N062938-002A,SAMF	5	1000	Unknown		02/07/2024 11:47	Finished	SAMP,2>10 mL
20	N062938-002AMS,M\$	6	1000	Unknown		02/07/2024 11:56	Finished	MS (5ppb), IWST-231228B,2>
21	N062938-008A,SAMF	7	1000	Unknown		02/07/2024 12:06	Finished	SAMP,10 mL
22	N062938-008AMS,M\$	8	1000	Unknown		02/07/2024 12:15	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2,CCV,1,	9	1000	Unknown		02/07/2024 12:25	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		02/07/2024 12:34	Finished	CCB R240103B
25	N062938-003A,SAMF	11	1000	Unknown		02/07/2024 12:44	Finished	SAMP,2>10 mL
26	N062938-003AMS,M\$	12	1000	Unknown		02/07/2024 12:53	Finished	MS (5ppb), IWST-231228B,2>
27	N062938-005A,SAMF	13	1000	Unknown		02/07/2024 13:03	Finished	SAMP,10 mL
28	N062938-005AMS,M\$	14	1000	Unknown		02/07/2024 13:12	Finished	MS (1ppb), IWST-231228B,10r
29	N062938-006A,SAMF	15	1000	Unknown		02/07/2024 13:22	Finished	SAMP,10 mL
30	N062938-006AMS,M\$	16	1000	Unknown		02/07/2024 13:31	Finished	MS (1ppb), IWST-231228B,10r
31	N062938-016A,SAMF	1	1000	Unknown		02/07/2024 13:46	Finished	SAMP,2>10 mL
32	N062938-016AMS,M\$	2	1000	Unknown		02/07/2024 13:57	Finished	MS (5ppb), IWST-231228B,2>
33	N062938-014A,SAMF	3	1000	Unknown		02/07/2024 14:07	Finished	SAMP,10 mL
34	N062938-014AMS,M\$	4	1000	Unknown		02/07/2024 14:16	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	5	1000	Unknown		02/07/2024 14:26	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	6	1000	Unknown		02/07/2024 14:35	Finished	CCB R240103B
37	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 14:56	Finished	SAMP,2>10 mL
38	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 15:08	Finished	MS (5ppb), IWST-231228B,2>
39	N062938-004AMSD,N	3	1000	Unknown		02/07/2024 15:18	Finished	MSD (5ppb), IWST-231228B,2
40	N062938-004ADUP,D	4	1000	Unknown		02/07/2024 15:27	Finished	DUP,2>10 mL
41	N062938-015A,SAMF	5	1000	Unknown		02/07/2024 15:36	Finished	SAMP,10 mL
42	N062938-015AMS,M\$	6	1000	Unknown		02/07/2024 15:46	Finished	MS (5ppb), IWST-231228B,10r
43	N062938-010A,SAMF	7	1000	Unknown		02/07/2024 15:55	Finished	SAMP,10 mL
44	N062938-010AMS,M\$	8	1000	Unknown		02/07/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
45	N062938-012A,SAMF	9	1000	Unknown		02/07/2024 16:14	Finished	SAMP,10 mL
46	N062938-012AMS,M\$	10	1000	Unknown		02/07/2024 16:24	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	11	1000	Unknown		02/07/2024 16:33	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	12	1000	Unknown		02/07/2024 16:43	Finished	CCB R240103B
49	N062938-007A,SAMF	13	1000	Unknown		02/07/2024 16:52	Finished	SAMP,10 mL
50	N062938-007AMS,M\$	14	1000	Unknown		02/07/2024 17:02	Finished	MS (1ppb), IWST-231228B,10r
51	N062938-013A,SAMF	15	1000	Unknown		02/07/2024 17:11	Finished	SAMP,10 mL
52	N062938-013AMS,M\$	16	1000	Unknown		02/07/2024 17:21	Finished	MS (1ppb), IWST-231228B,10r
53	N062938-018A,SAMF	17	1000	Unknown		02/07/2024 17:30	Finished	SAMP,10 mL
54	N062938-018AMS,M\$	18	1000	Unknown		02/07/2024 17:40	Finished	MS (1ppb), IWST-231228B,10r
55	N062938-009A,SAMF	19	1000	Unknown		02/07/2024 17:49	Finished	SAMP,10 mL
56	N062938-009AMS,M\$	20	1000	Unknown		02/07/2024 17:59	Finished	MS (1ppb), IWST-231228B,10r
57	N062938-011A,SAMF	21	1000	Unknown		02/07/2024 18:08	Finished	SAMP,10 mL
58	N062938-011AMS,M\$	22	1000	Unknown		02/07/2024 18:18	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	23	1000	Unknown		02/07/2024 18:27	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	24	1000	Unknown		02/07/2024 18:36	Finished	CCB R240103B

61	N062938-019A,SAMF	25	1000	Unknown	02/07/2024 18:46	Finished	SAMP,10 mL
62	N062938-019AMS,M\$	26	1000	Unknown	02/07/2024 18:55	Finished	MS (1ppb), IWST-231228B,10r
63	N062938-017A,SAMF	27	1000	Unknown	02/07/2024 19:05	Finished	SAMP,2>10 mL
64	N062938-017AMS,M\$	28	1000	Unknown	02/07/2024 19:14	Finished	MS (1ppb), IWST-231228B,2>
65	N062938-005A,SAMF	29	1000	Unknown	02/07/2024 19:24	Finished	SAMP,2>10 mL
66	N062938-005AMS,M\$	30	1000	Unknown	02/07/2024 19:33	Finished	MS (1ppb), IWST-231228B,2>
67	N062938-006A,SAMF	31	1000	Unknown	02/07/2024 19:46	Finished	SAMP,2>10 mL
68	N062938-006AMS,M\$	32	1000	Unknown	02/07/2024 19:56	Finished	MS (1ppb), IWST-231228B,2>
69	N062938-007A,SAMF	33	1000	Unknown	02/07/2024 20:05	Finished	SAMP,2>10 mL
70	N062938-007AMS,M\$	34	1000	Unknown	02/07/2024 20:14	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	35	1000	Unknown	02/07/2024 20:24	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	36	1000	Unknown	02/07/2024 20:33	Finished	CCB R240103B
73	N062911-002A,SAMF	37	1000	Unknown	02/07/2024 20:43	Finished	SAMP,10 mL
74	N062911-002AMS,M\$	38	1000	Unknown	02/07/2024 20:52	Finished	MS (1ppb), IWST-231228B,10r
75	N062938-016A,SAMF	39	1000	Unknown	02/07/2024 21:02	Finished	SAMP,0.5>10 mL
76	N062938-016AMS,M\$	40	1000	Unknown	02/07/2024 21:11	Finished	MS (5ppb), IWST-231228B,0.5
77	N062938-004AMSD,M	2	1000	Unknown	02/07/2024 21:53	Finished	MSD (5ppb), IWST-231228B,2
78	CCV-7,CCV,1,	1	1000	Unknown	02/07/2024 22:11	Finished	CCV @5ppb, IWST-231228A
79	CCB-7,CCB,1,	2	1000	Unknown	02/07/2024 22:22	Finished	CCB R240103B
80	N062938-014A,SAMF	3	1000	Unknown	02/07/2024 22:31	Finished	SAMP,10 mL
81	N062938-014AMS,M\$	4	1000	Unknown	02/07/2024 22:41	Finished	MS (1ppb), IWST-231228B,10r
82	N062938-015A,SAMF	5	1000	Unknown	02/07/2024 22:50	Finished	SAMP,1>10 mL
83	N062938-015AMS,M\$	6	1000	Unknown	02/07/2024 22:59	Finished	MS (5ppb), IWST-231228B,1>
84	N062938-009A,SAMF	7	1000	Unknown	02/07/2024 23:09	Finished	SAMP,10 mL
85	N062938-009AMS,M\$	8	1000	Unknown	02/07/2024 23:18	Finished	MS (1ppb), IWST-231228B,10r
86	CCV-8,CCV1,1,	9	1000	Unknown	02/07/2024 23:28	Finished	CCV @10ppb, IWST-231228A
87	CCB-8,CCB,1,	10	1000	Unknown	02/07/2024 23:37	Finished	CCB R240103B
88	BLANK	11	1000	Unknown	02/07/2024 23:47	Finished	BLANK
89	SHUTDOWN	12	1000	Unknown	02/07/2024 23:56	Finished	
90	Eluent: R240205A	13	1000	Unknown	n.a.	Finished	
91	PCR: R240205B	14	1000	Unknown	n.a.	Finished	

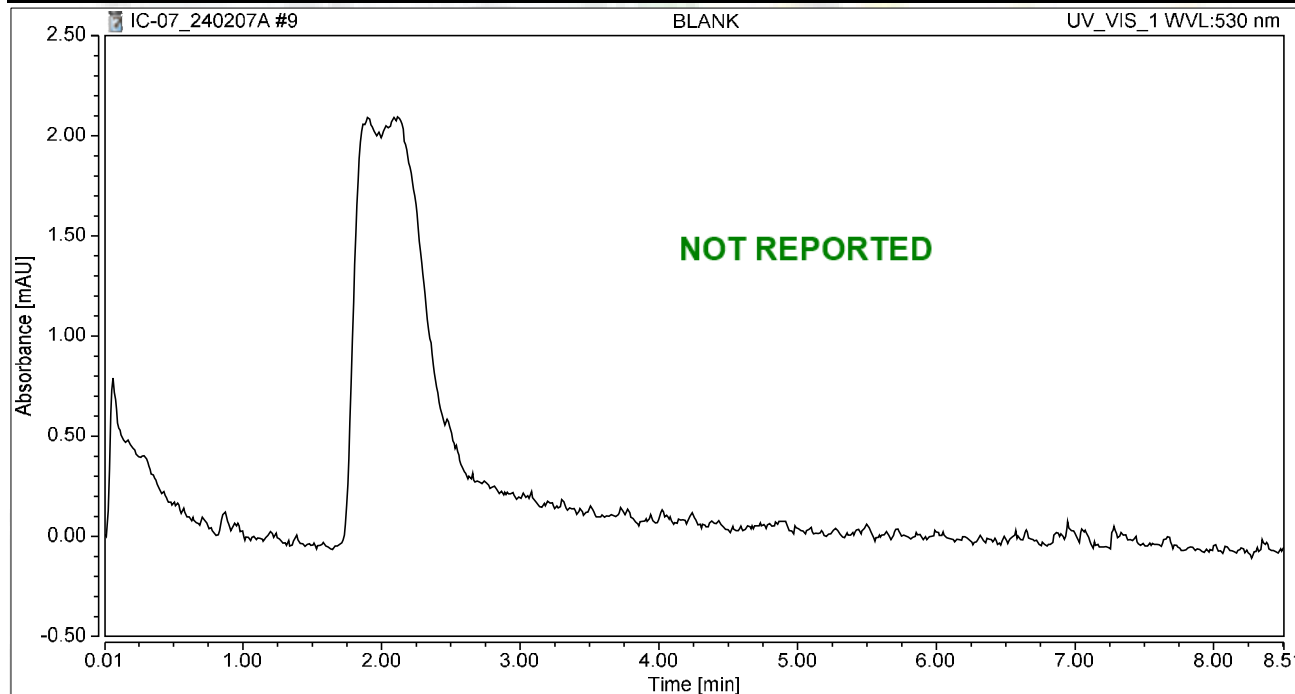


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 09:22	Sample Weight:	1.0000

Chromatogram



Integration Results

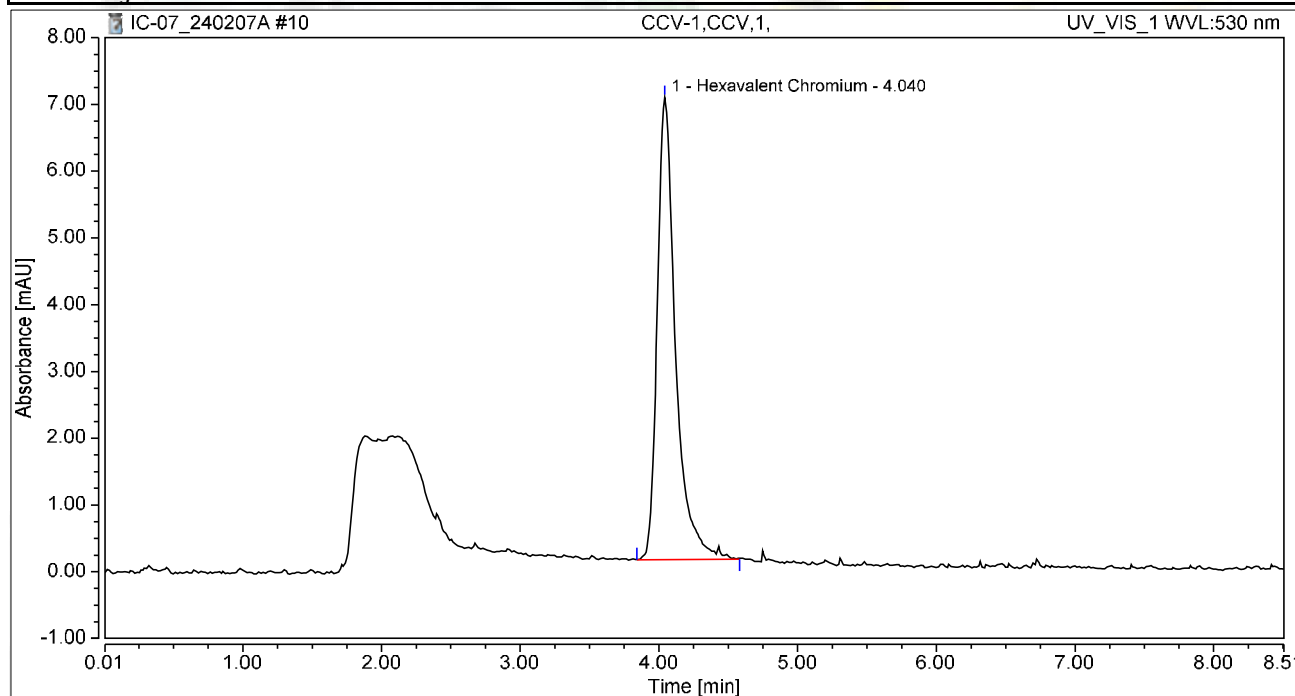
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.055	6.919	100.00	100.00	4.9039
Total:			1.055	6.919	100.00	100.00	

Reviewed by:

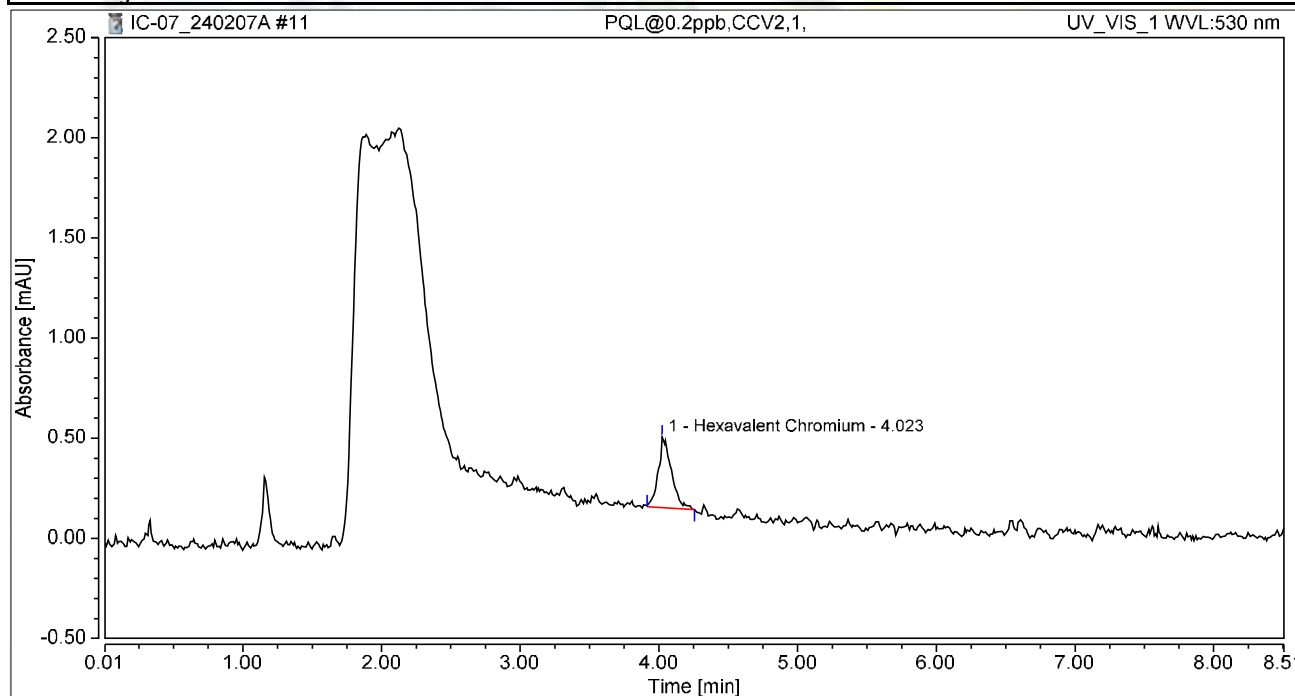
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:22	Sample Weight:	1.0000

Chromatogram



Integration Results

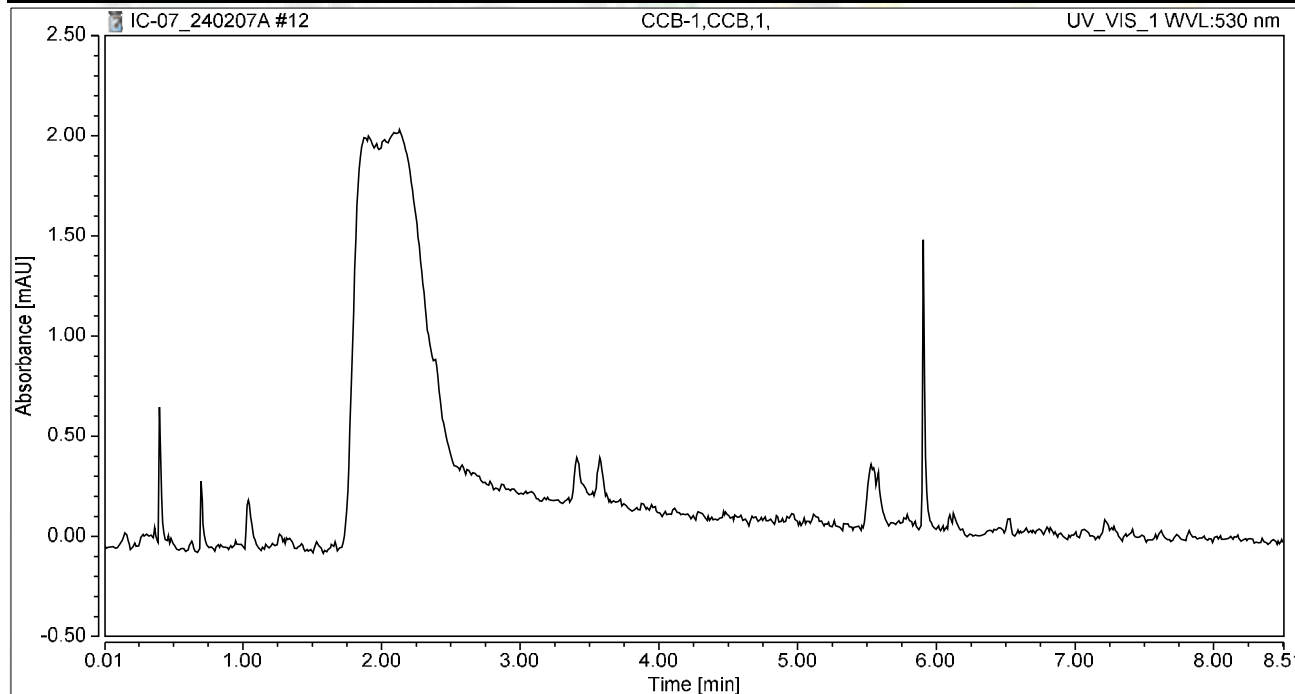
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.039	0.352	100.00	100.00	0.1796
Total:			0.039	0.352	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:31	Sample Weight:	1.0000

Chromatogram



Integration Results

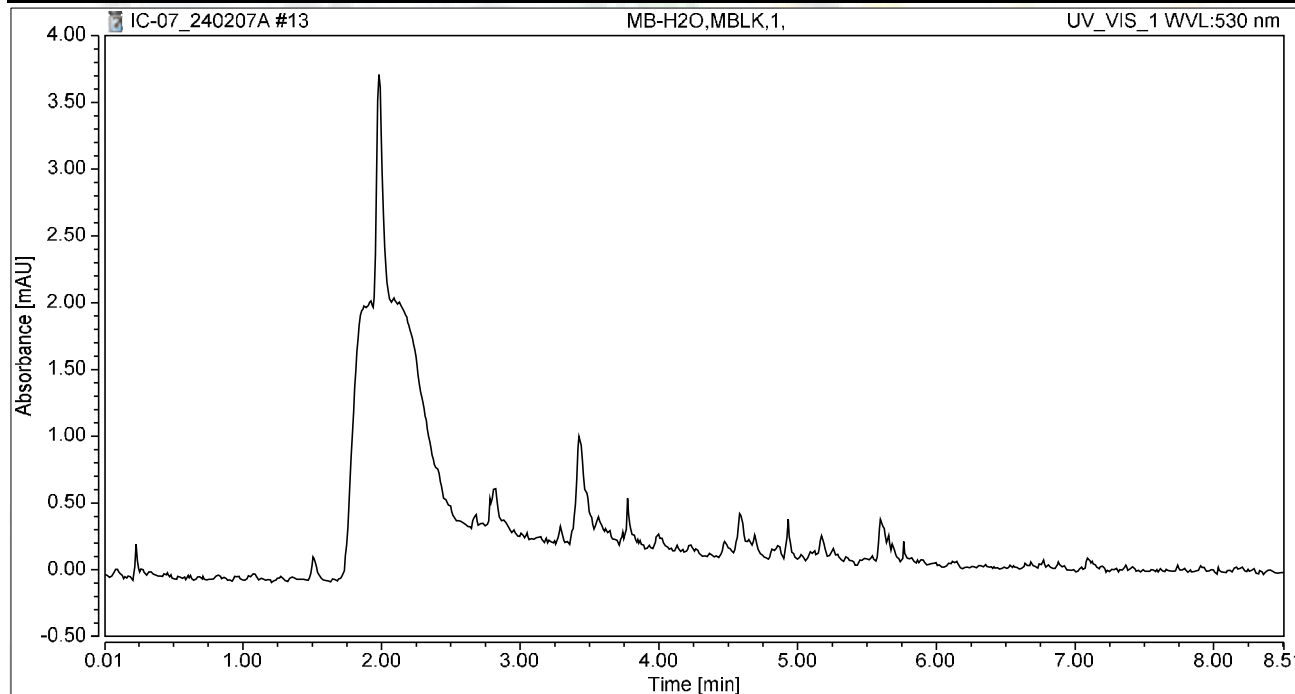
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:40	Sample Weight:	1.0000

Chromatogram



Integration Results

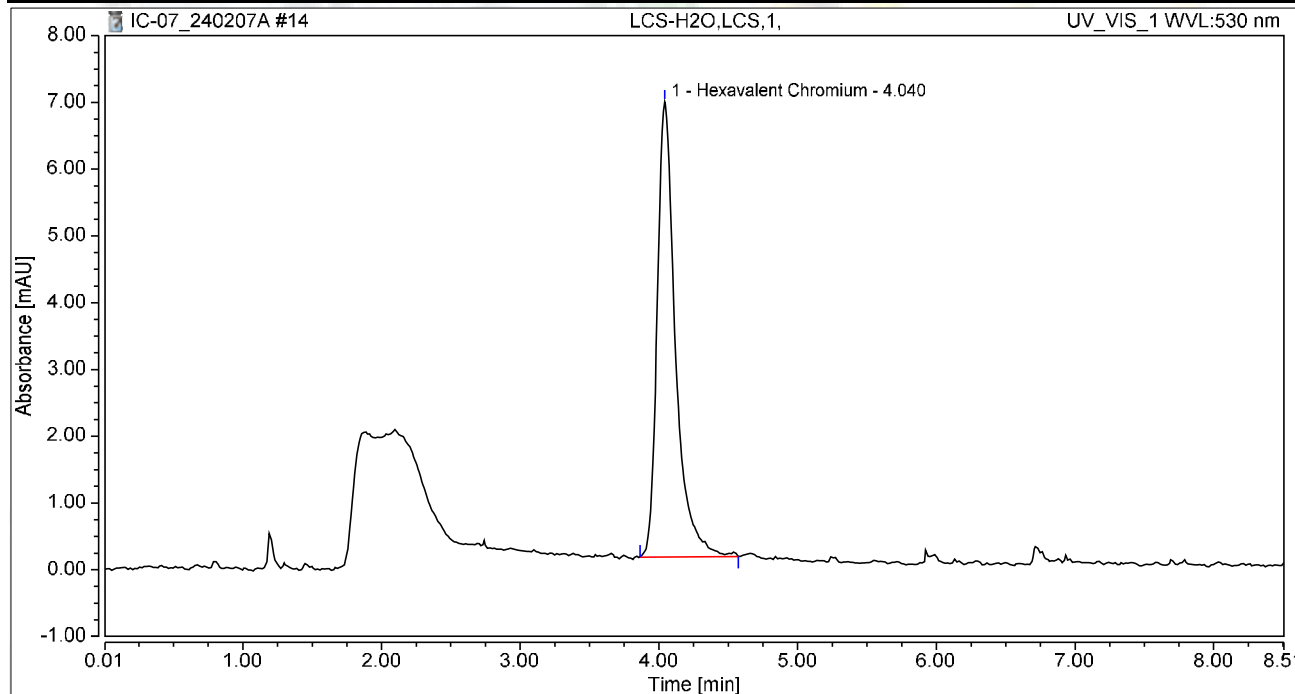
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

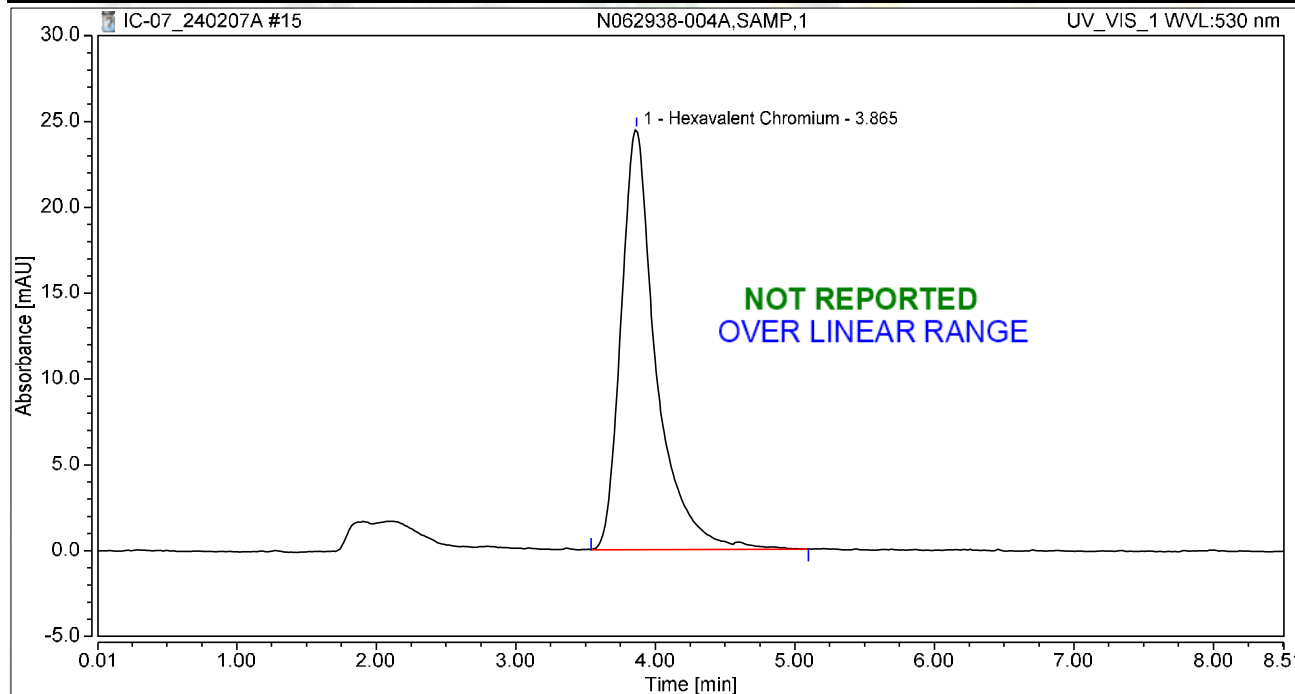
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.038	6.816	100.00	100.00	4.8272
Total:			1.038	6.816	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

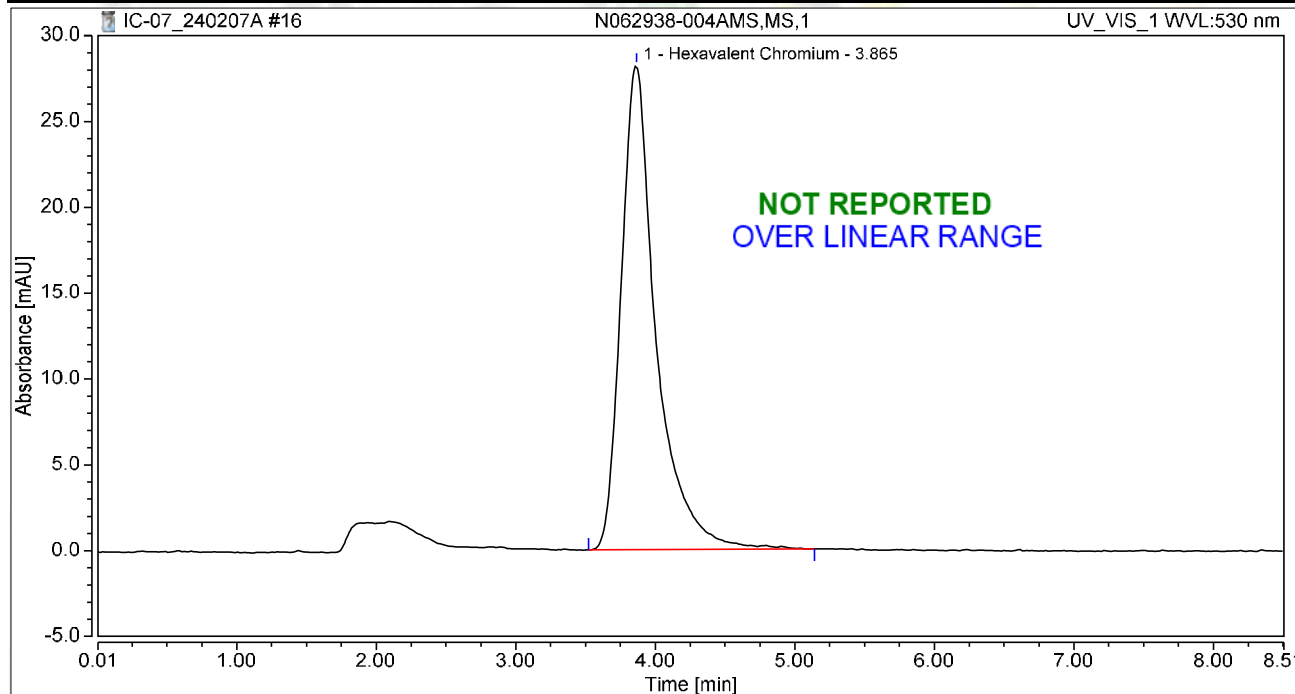
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	7.135	24.493	100.00	100.00	33.1689
Total:			7.135	24.493	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:19	Sample Weight:	1.0000

Chromatogram



Integration Results

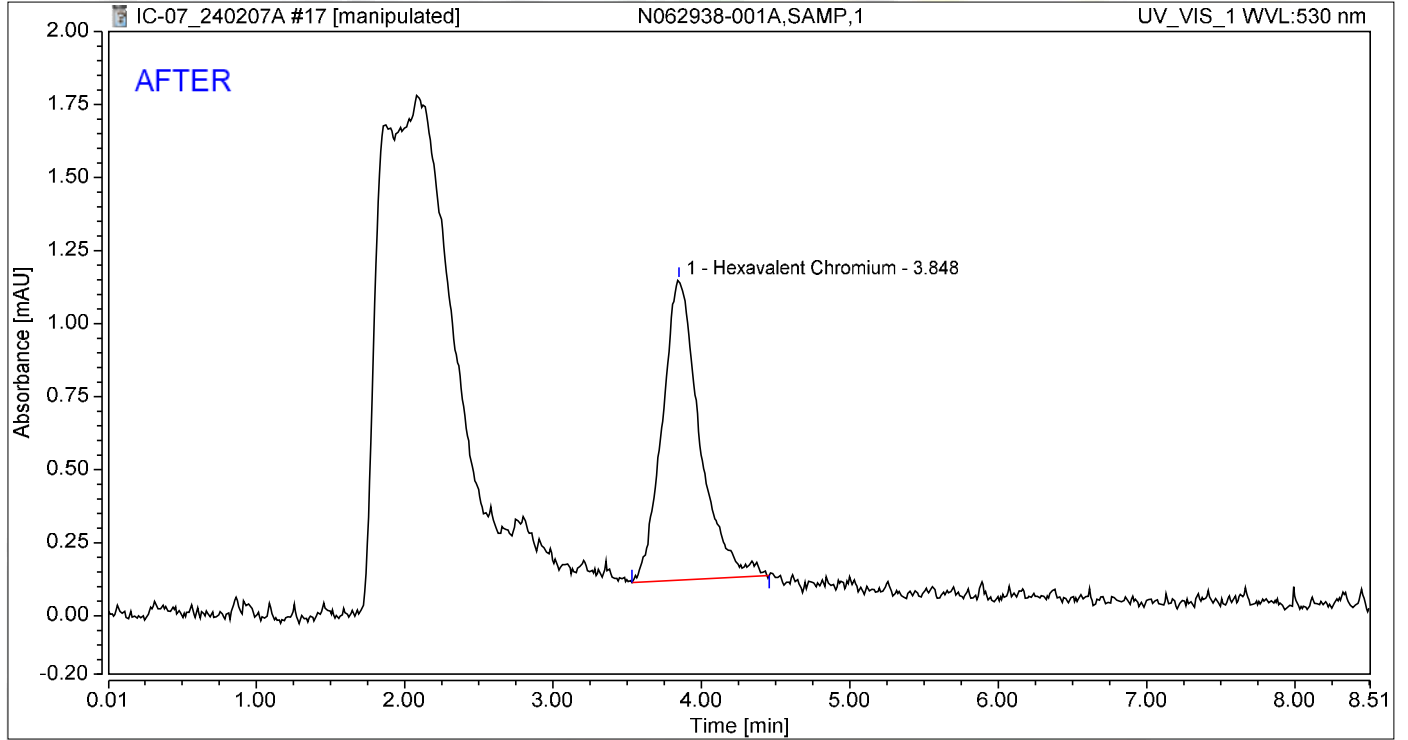
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	8.192	28.232	100.00	100.00	38.0848
Total:			8.192	28.232	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.301	1.027	100.00	100.00	1.3996
Total:			0.301	1.027	100.00	100.00	

Reviewed by:

jrb

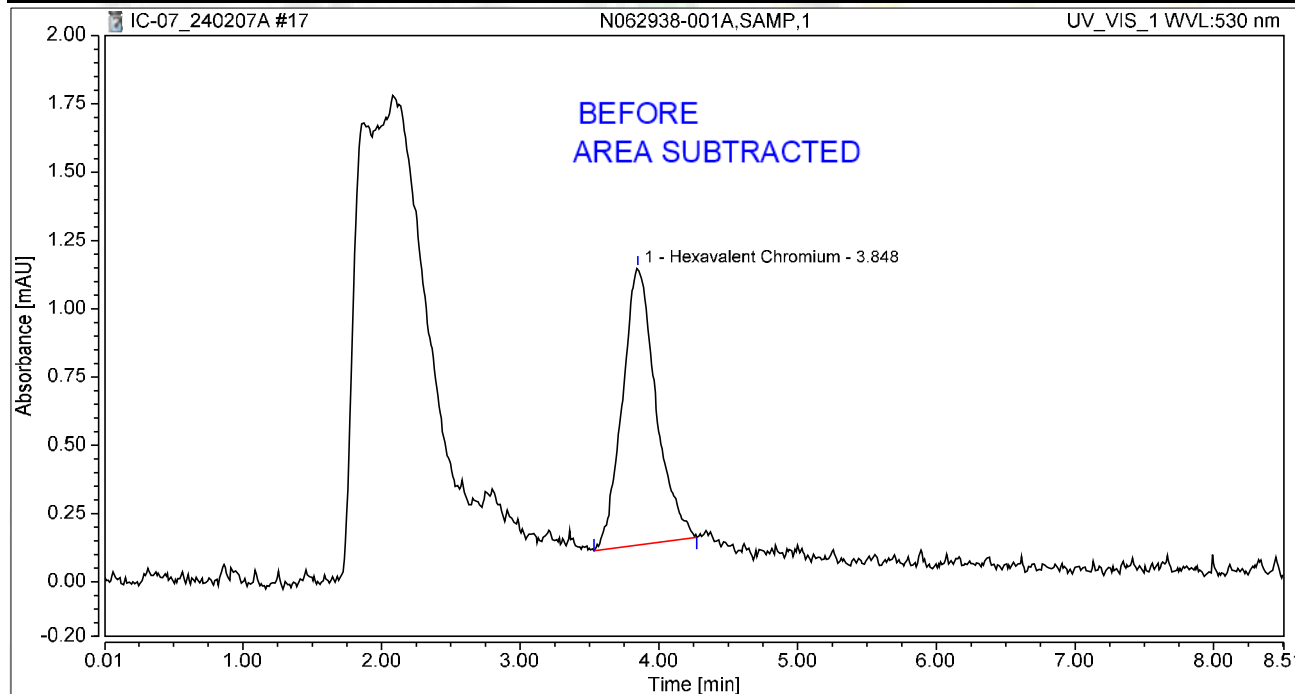
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:28	Sample Weight:	1.0000

Chromatogram



Integration Results

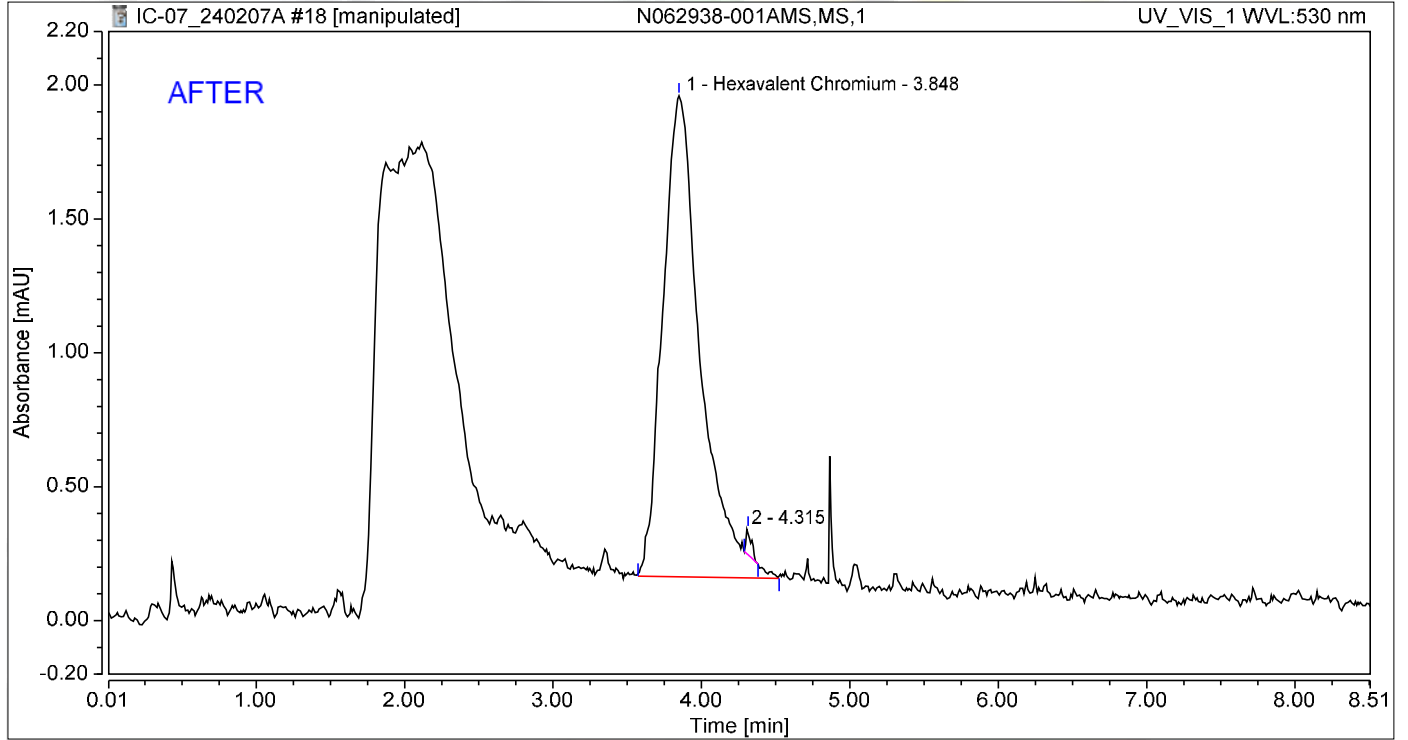
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.285	1.015	100.00	100.00	1.3233
Total:			0.285	1.015	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.527	1.796	99.26	94.93	2.4488
2		4.315	0.004	0.096	0.74	5.07	n.a.
Total:			0.531	1.891	100.00	100.00	

Reviewed by:

jrb

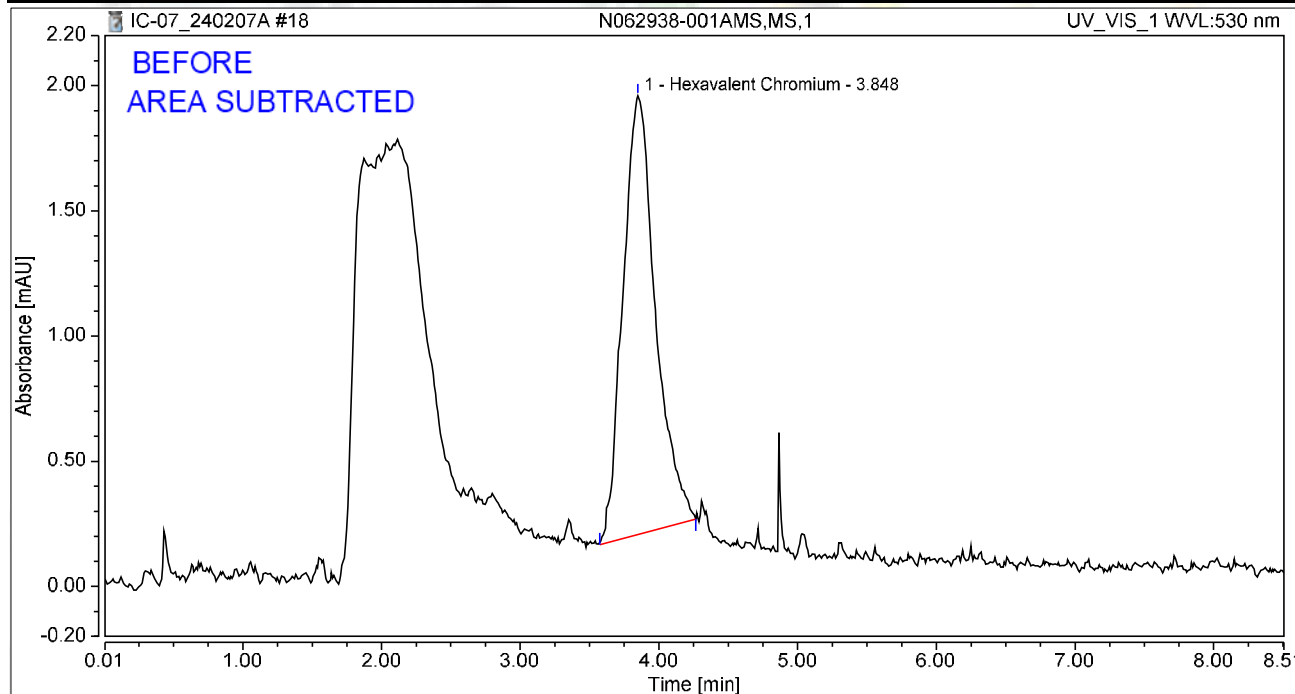
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

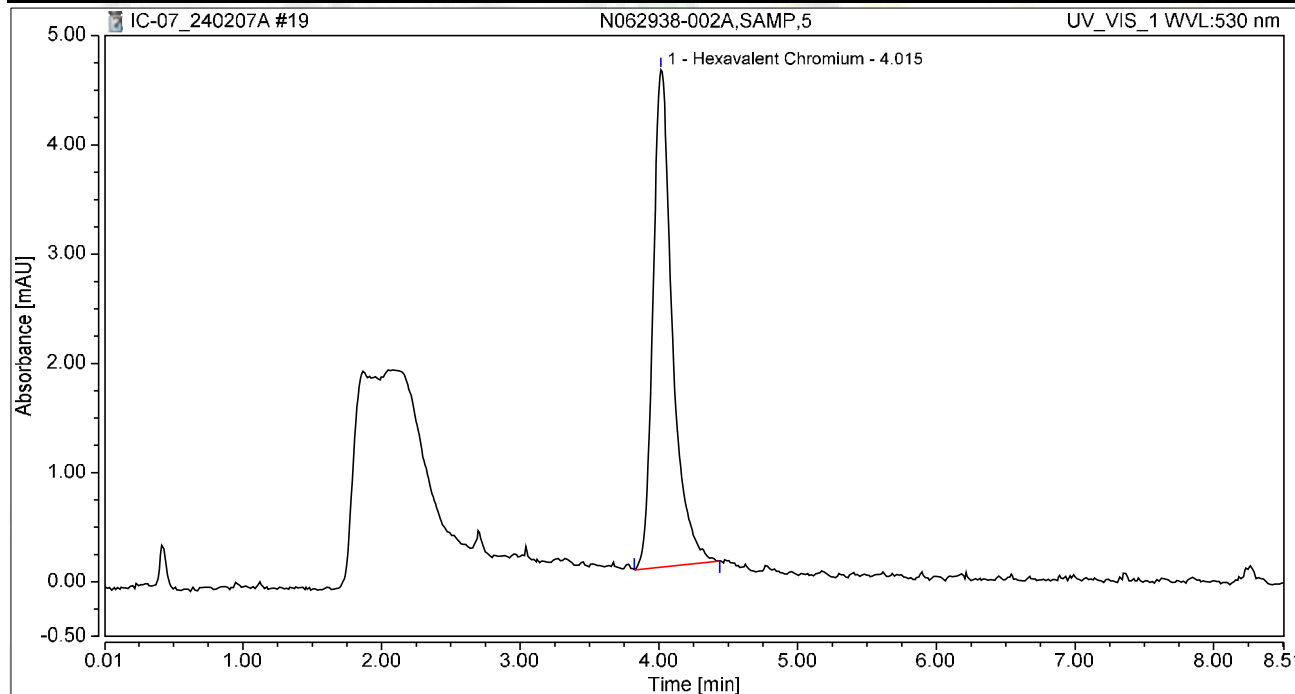
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.476	1.752	100.00	100.00	2.2121
Total:			0.476	1.752	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:47	Sample Weight:	1.0000

Chromatogram



Integration Results

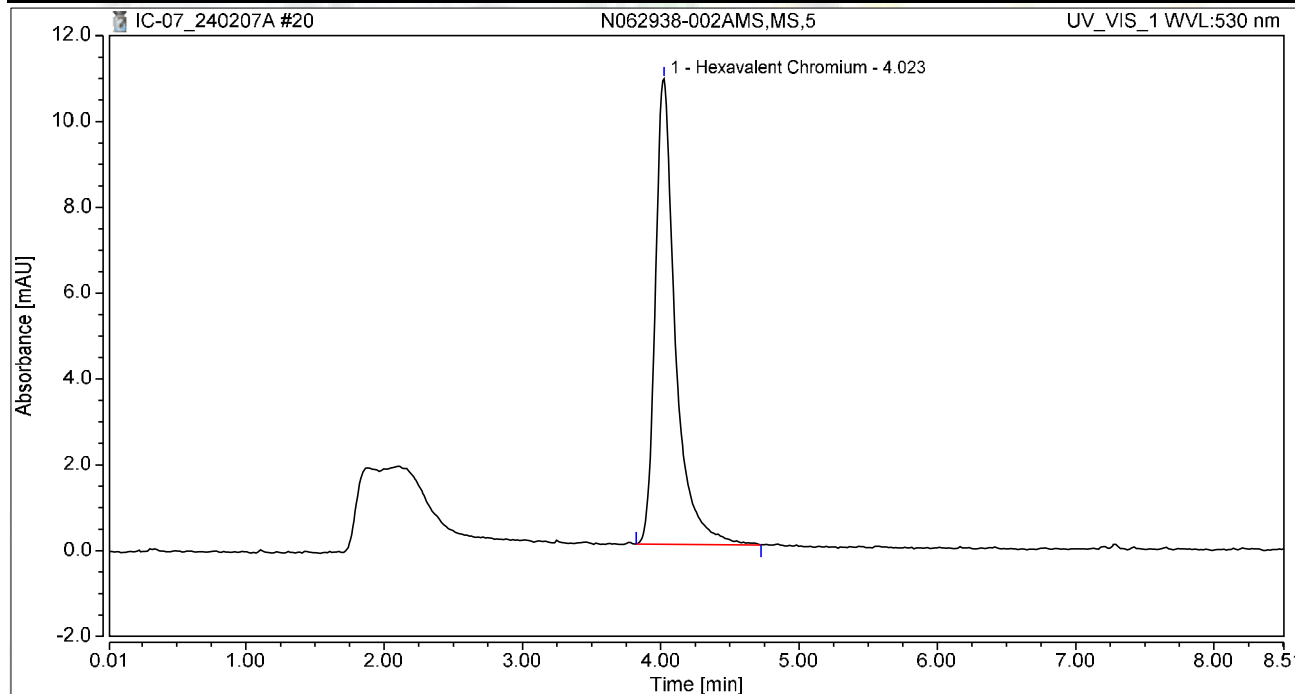
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.739	4.553	100.00	100.00	3.4345
Total:			0.739	4.553	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-002AMS,MS,5	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:56	Sample Weight:	1.0000

Chromatogram



Integration Results

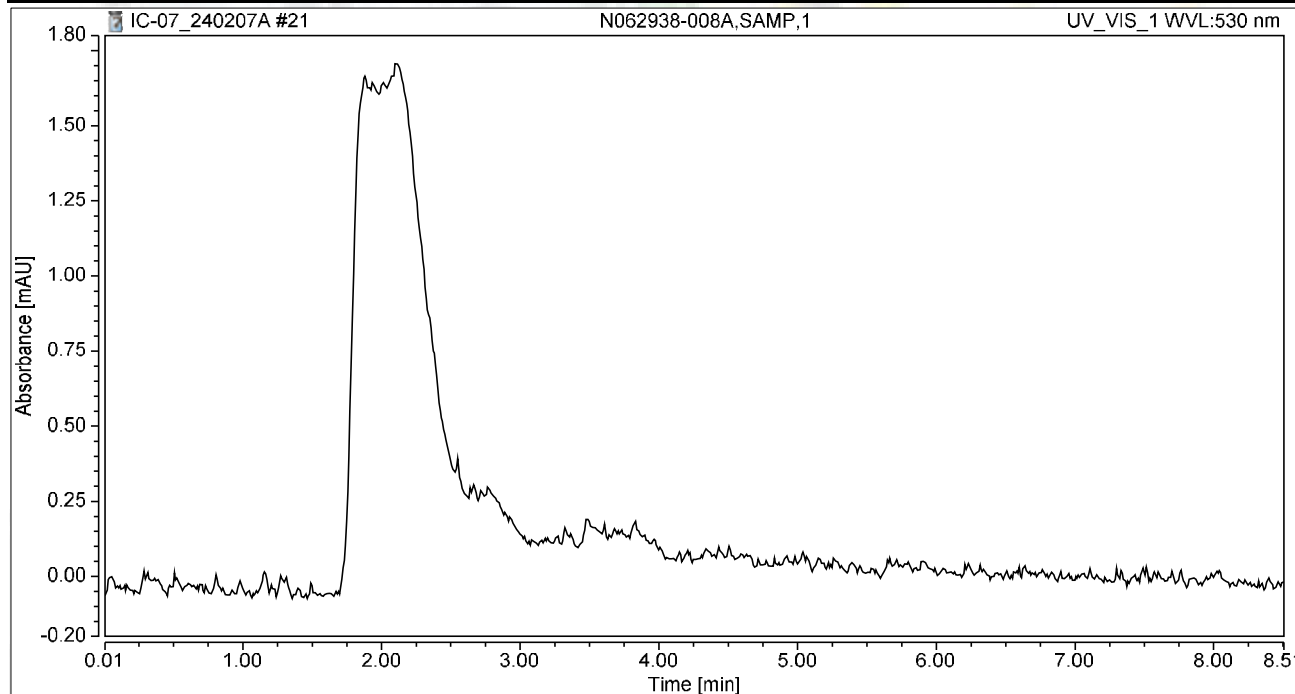
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.823	10.847	100.00	100.00	8.4764
Total:			1.823	10.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:06	Sample Weight:	1.0000

Chromatogram



Integration Results

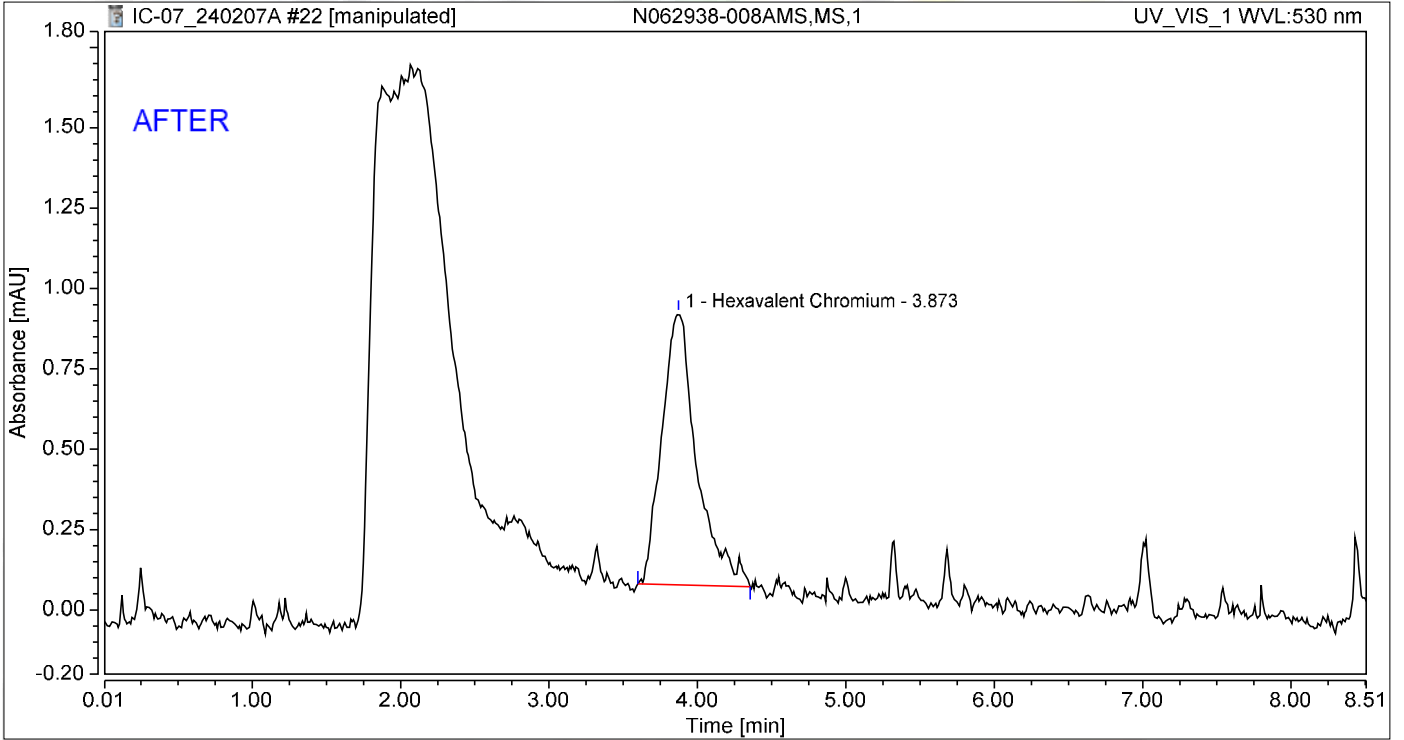
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.230	0.846	100.00	100.00	1.0702
Total:			0.230	0.846	100.00	100.00	

Reviewed by:

jrb

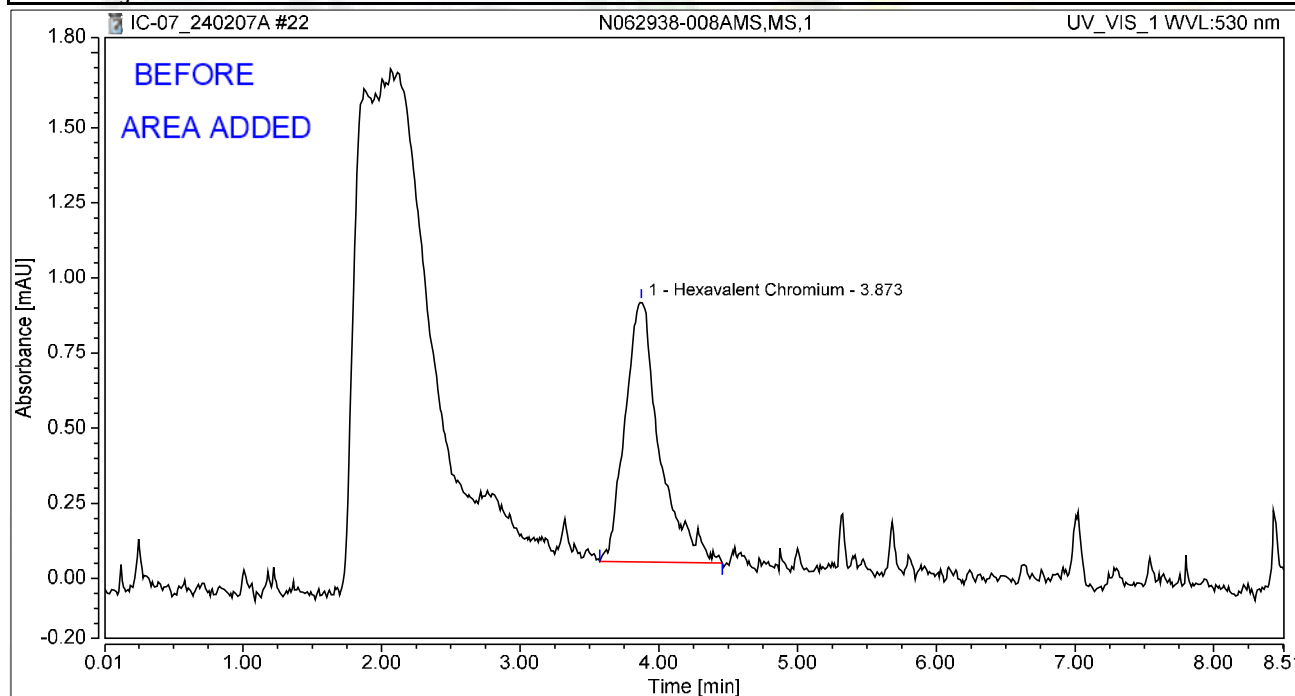
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:15	Sample Weight:	1.0000

Chromatogram



Integration Results

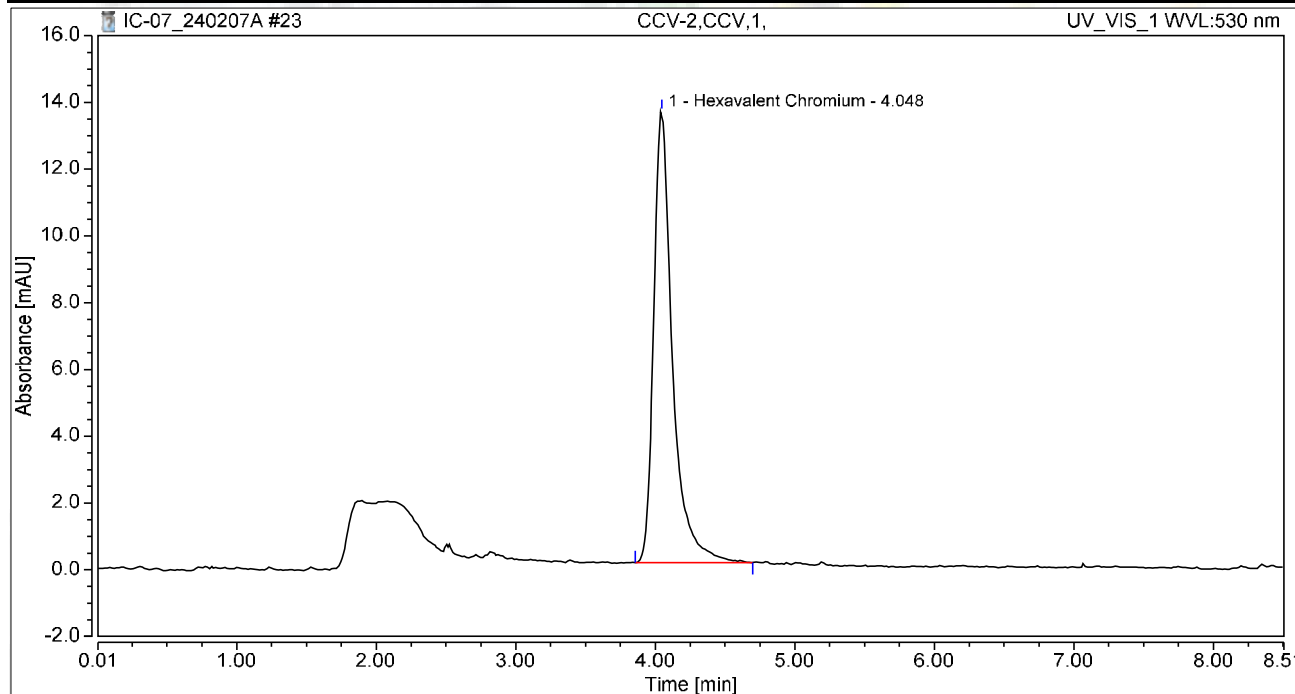
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.250	0.869	100.00	100.00	1.1613
Total:			0.250	0.869	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:25	Sample Weight:	1.0000

Chromatogram



Integration Results

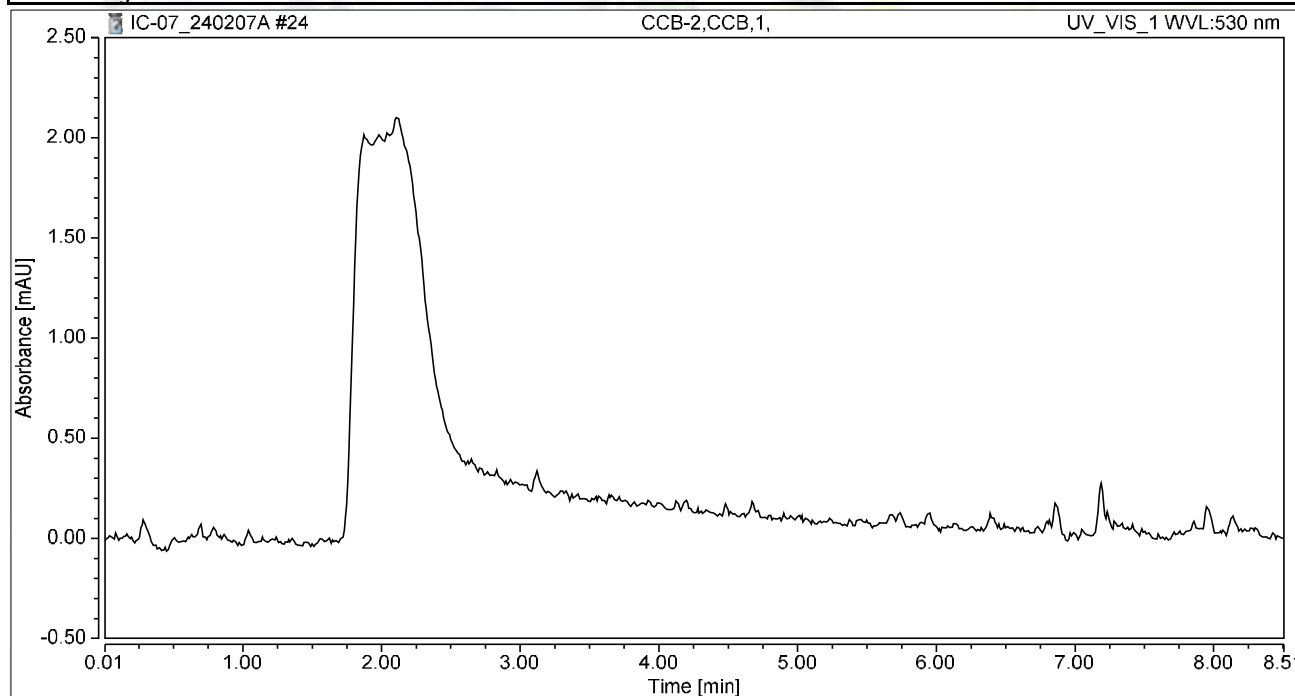
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.110	13.511	100.00	100.00	9.8108
Total:			2.110	13.511	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:34	Sample Weight:	1.0000

Chromatogram



Integration Results

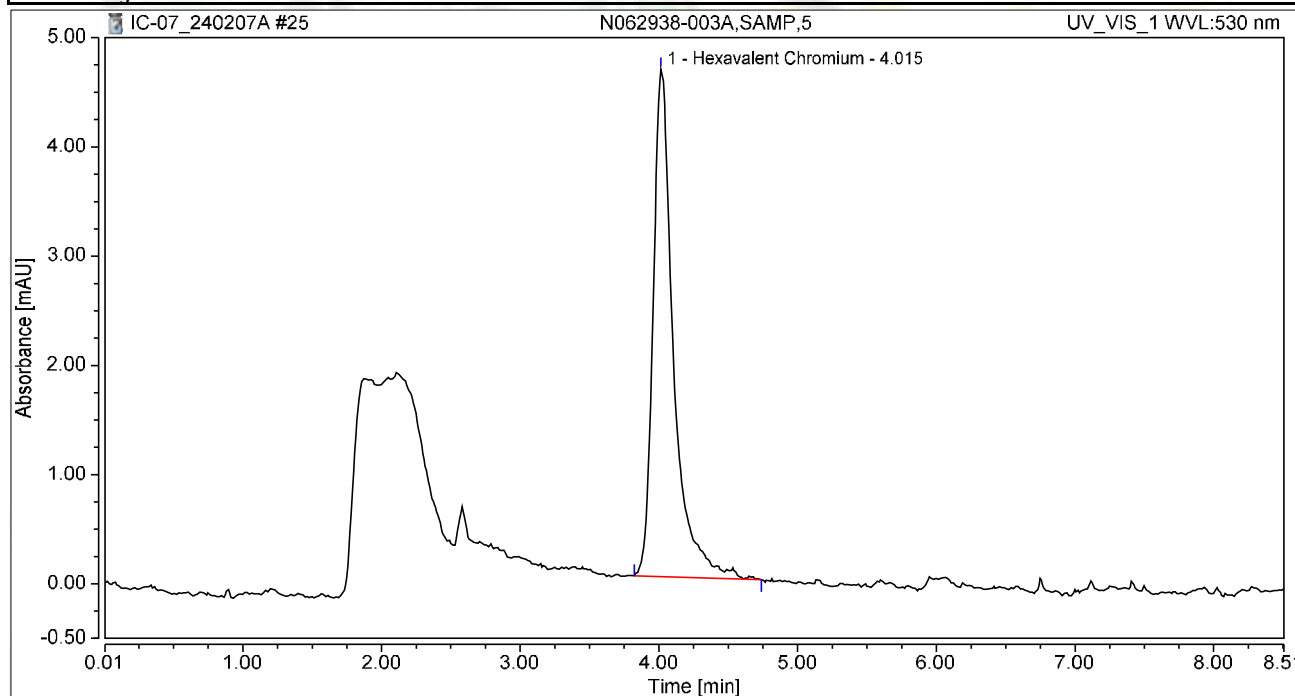
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

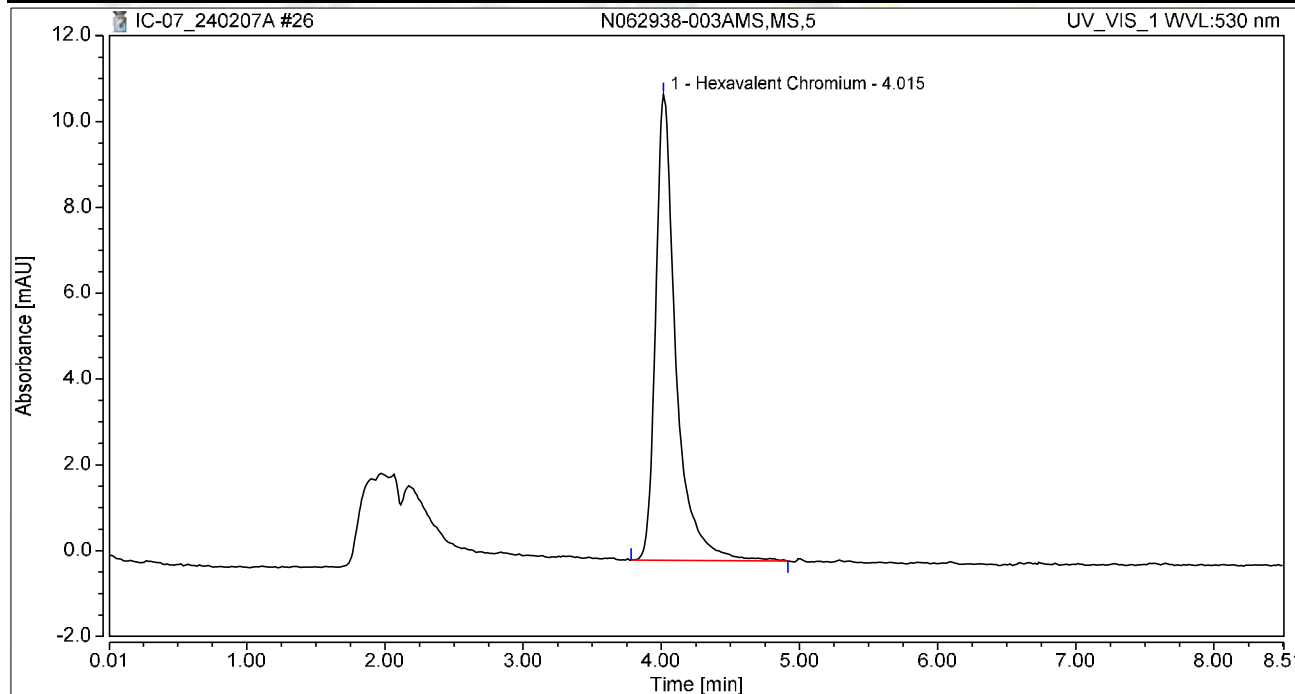
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.792	4.644	100.00	100.00	3.6811
Total:			0.792	4.644	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:53	Sample Weight:	1.0000

Chromatogram



Integration Results

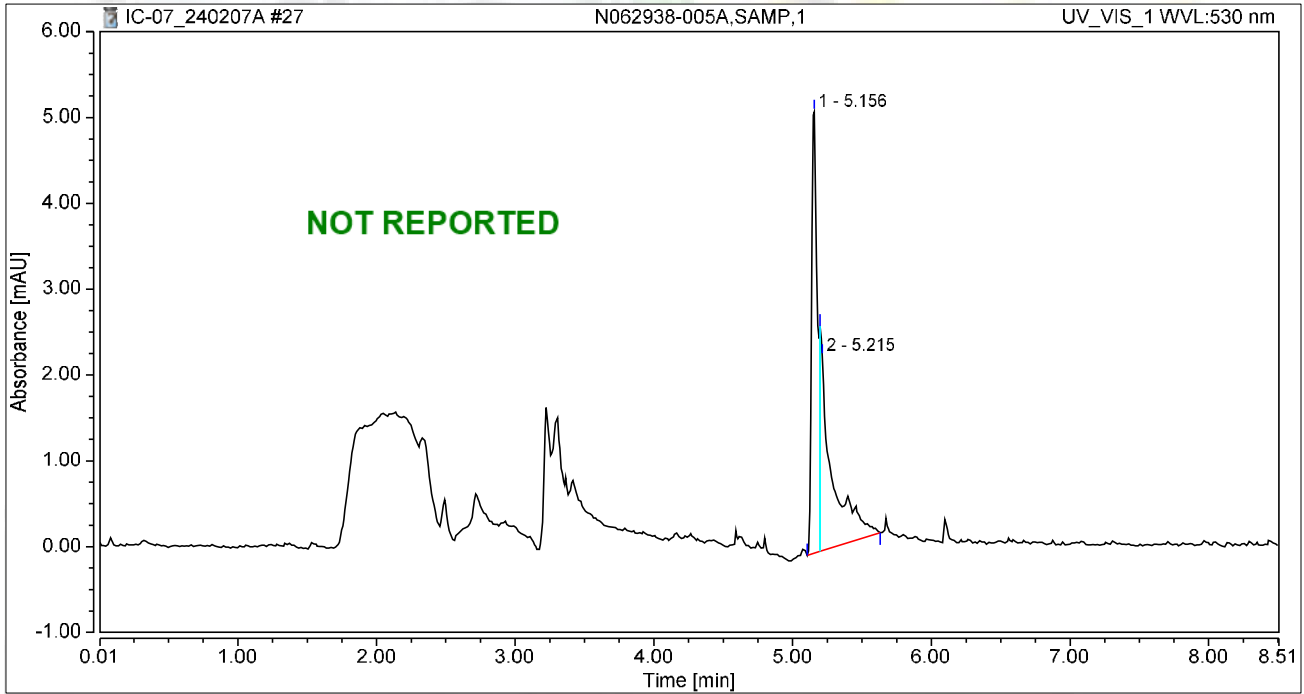
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.842	10.847	100.00	100.00	8.5615
Total:			1.842	10.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:03	Sample Weight:	1.0000

Chromatogram



Integration Results

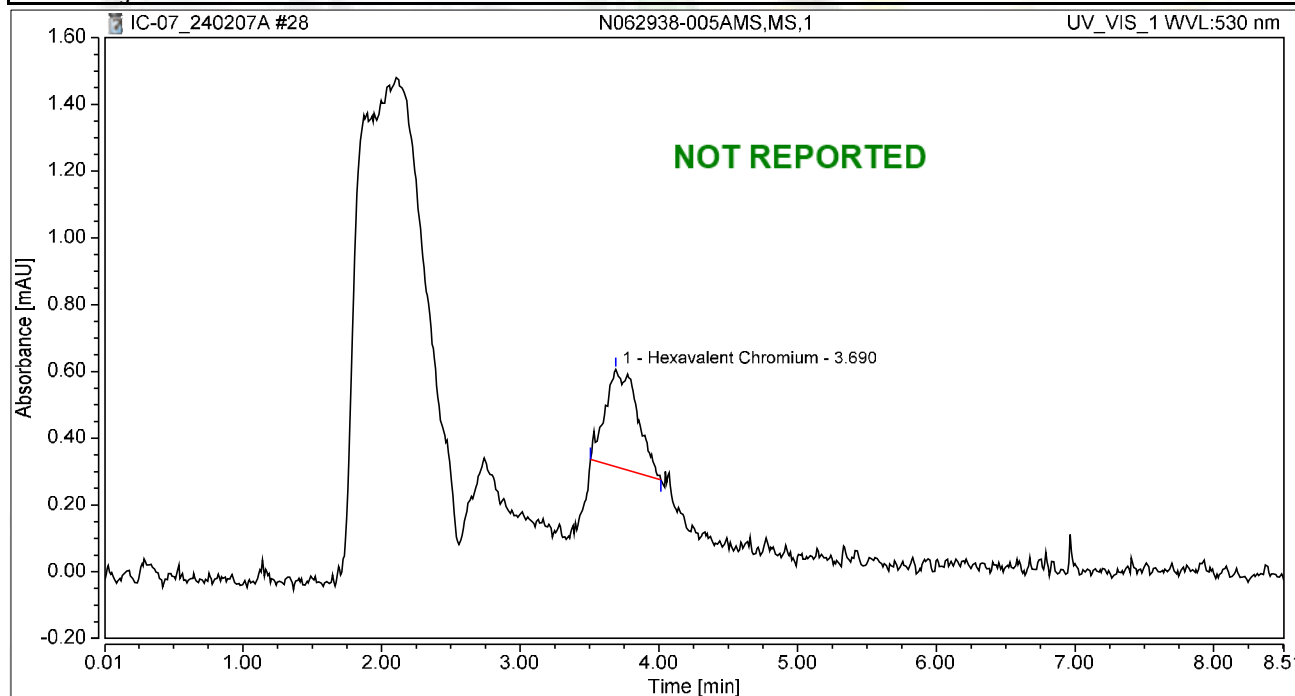
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		5.156	0.253	5.141	51.09	69.42	n.a.
2		5.215	0.242	2.264	48.91	30.58	n.a.
Total:			0.495	7.405	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:12	Sample Weight:	1.0000

Chromatogram



Integration Results

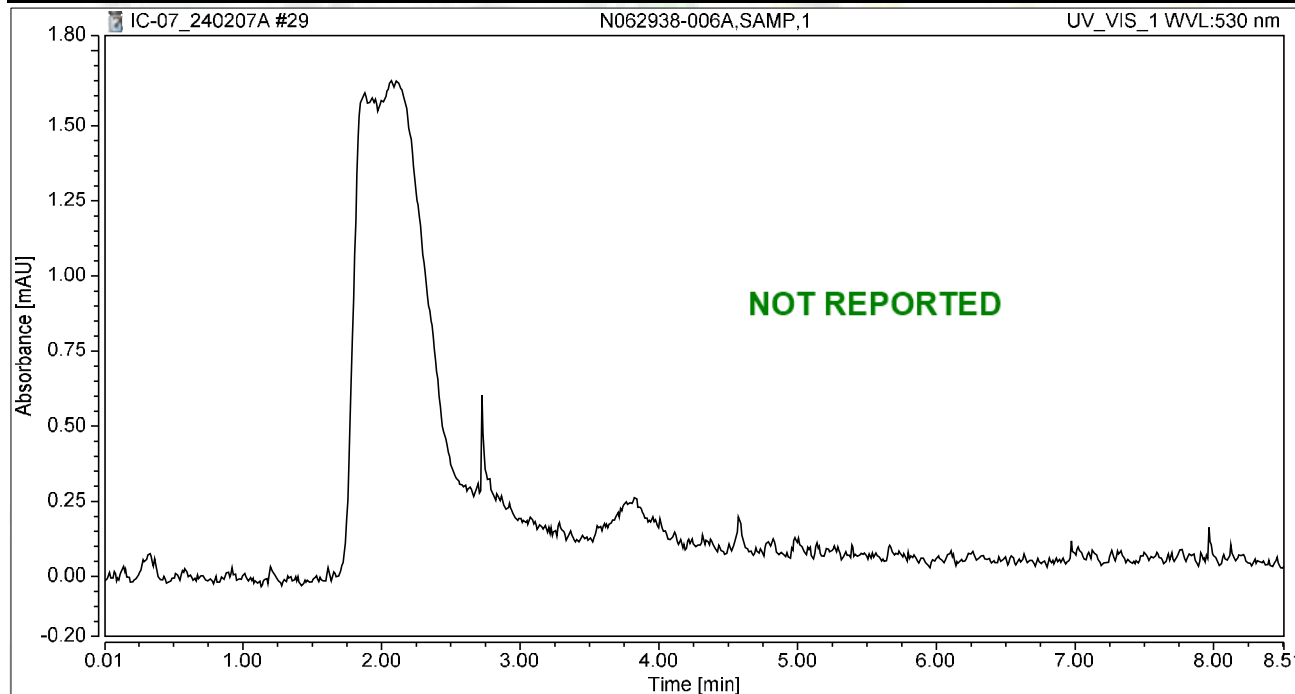
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.690	0.080	0.292	100.00	100.00	0.3696
Total:			0.080	0.292	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:22	Sample Weight:	1.0000

Chromatogram



Integration Results

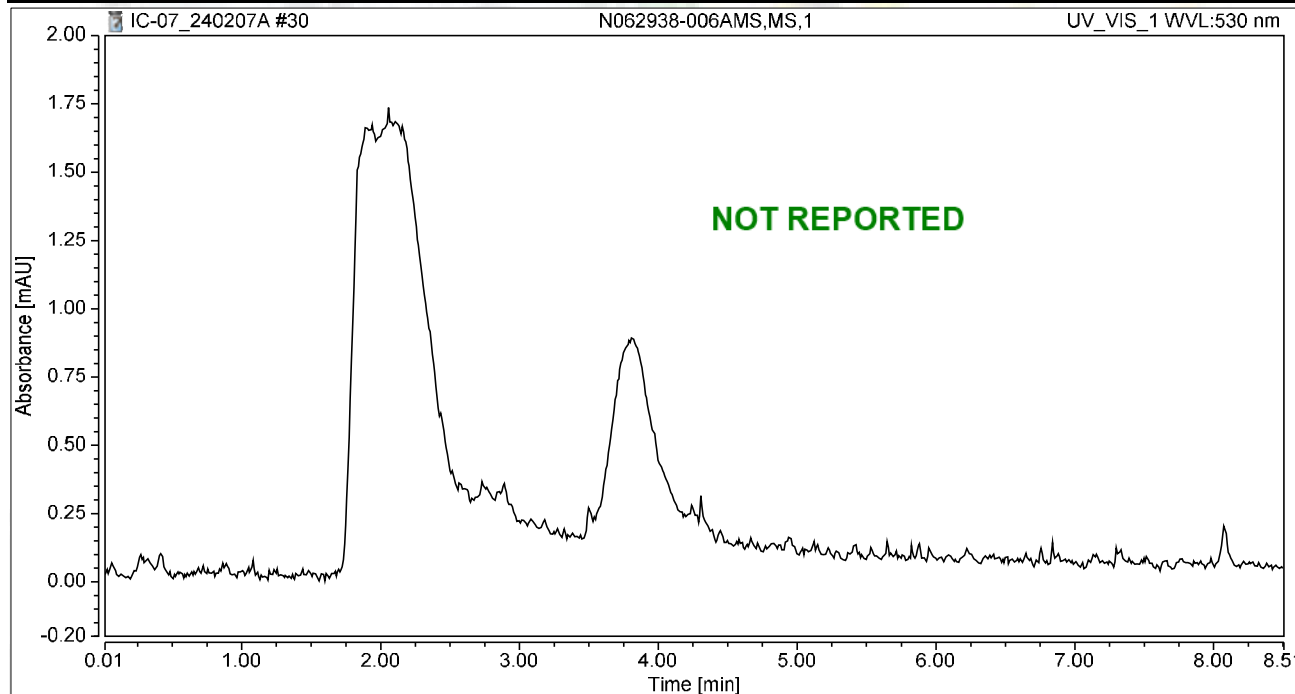
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:31	Sample Weight:	1.0000

Chromatogram



Integration Results

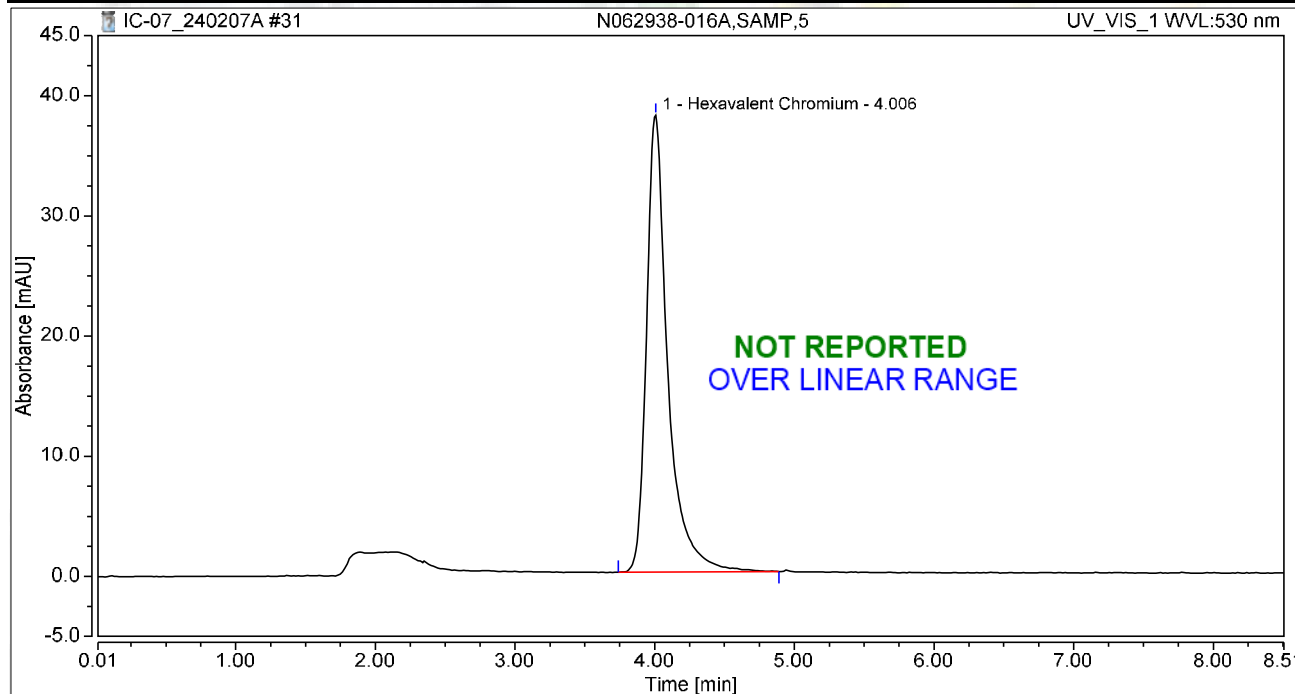
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016A,SAMP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:46	Sample Weight:	1.0000

Chromatogram



Integration Results

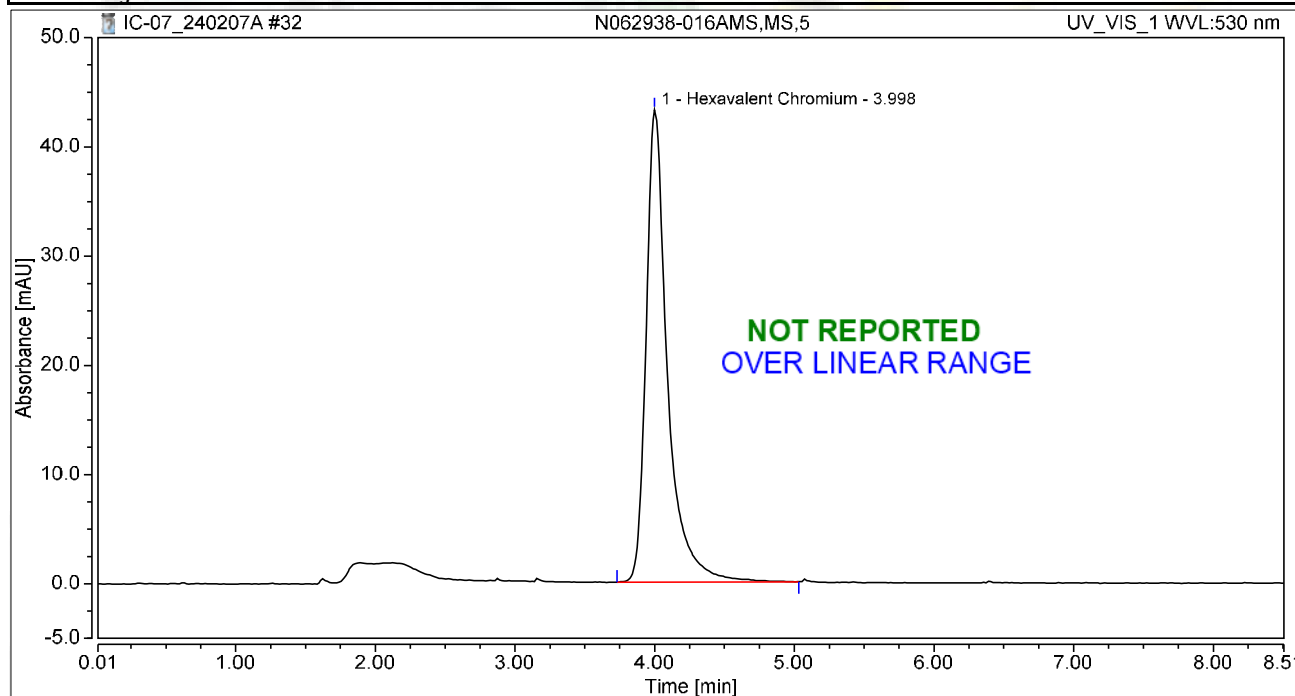
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	6.741	38.033	100.00	100.00	31.3374
Total:			6.741	38.033	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016AMS,MS,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

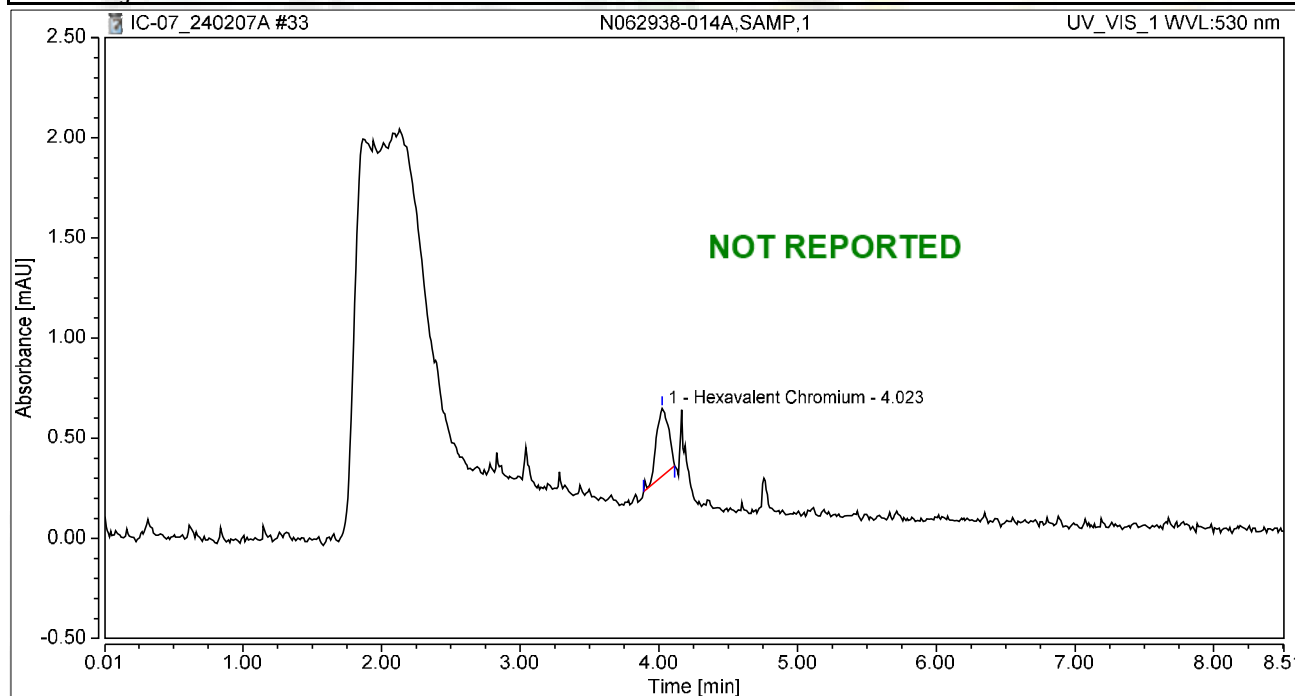
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	7.688	43.240	100.00	100.00	35.7413
Total:			7.688	43.240	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

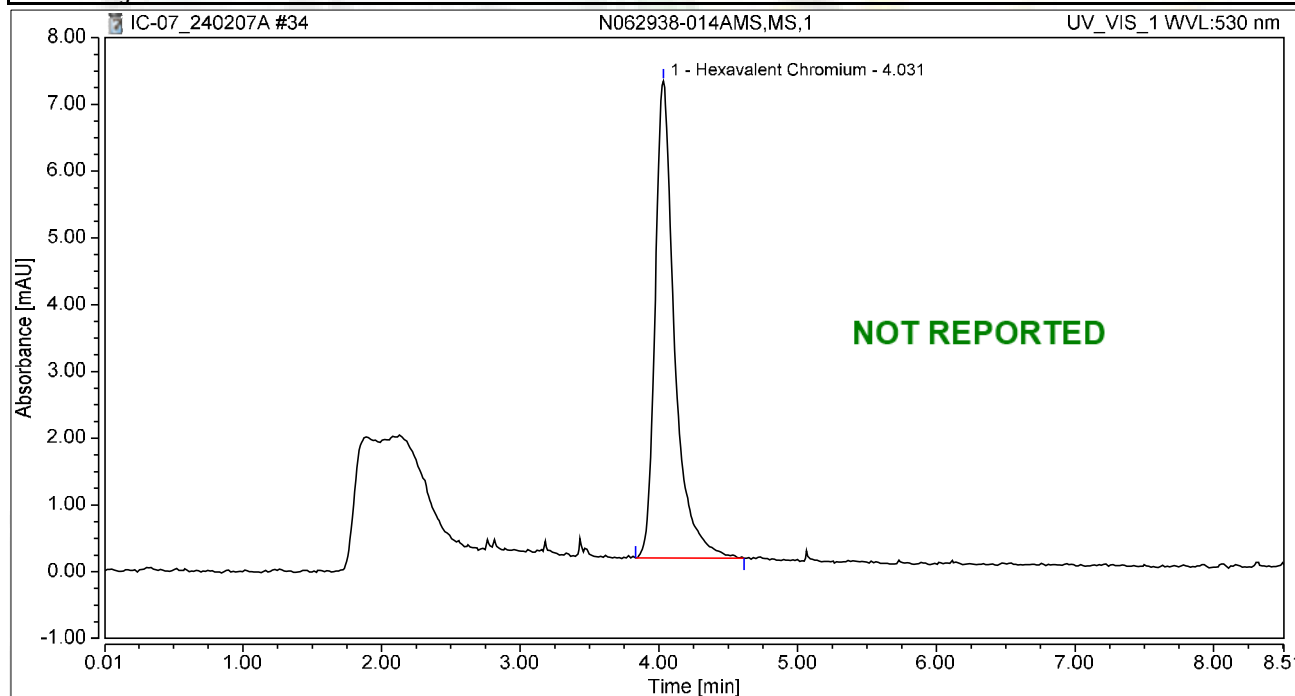
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.035	0.340	100.00	100.00	0.1620
Total:			0.035	0.340	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:16	Sample Weight:	1.0000

Chromatogram



Integration Results

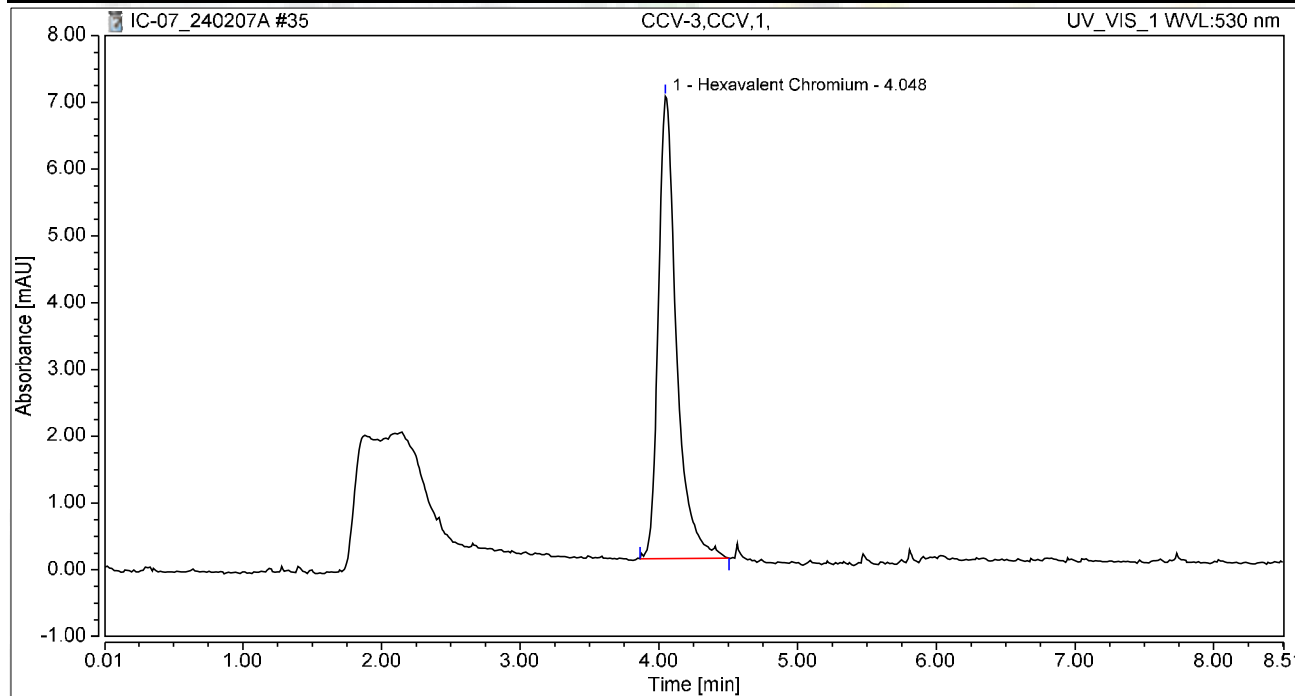
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.158	7.145	100.00	100.00	5.3835
Total:			1.158	7.145	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:26	Sample Weight:	1.0000

Chromatogram



Integration Results

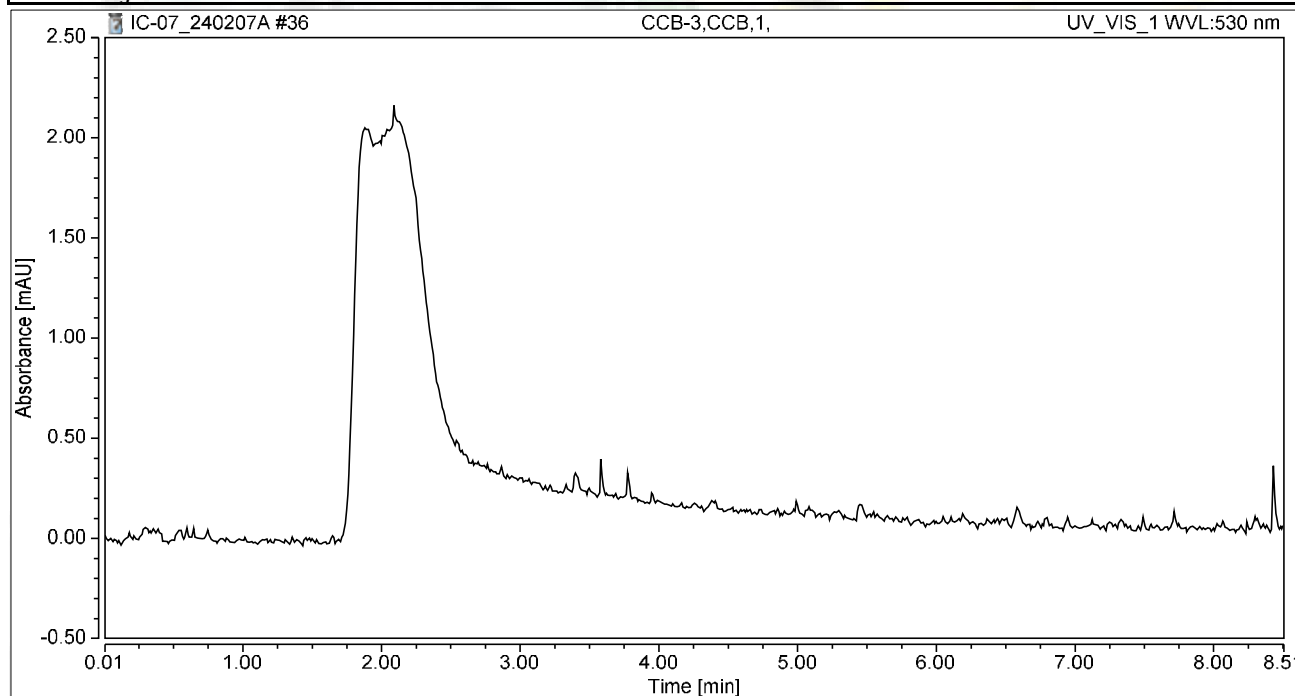
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.052	6.926	100.00	100.00	4.8928
Total:			1.052	6.926	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	CCB-3,CCB,1,	<i>Run Time (min):</i>	8.50
<i>Vial Number:</i>	6	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	240205_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	07/Feb/24 14:35	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

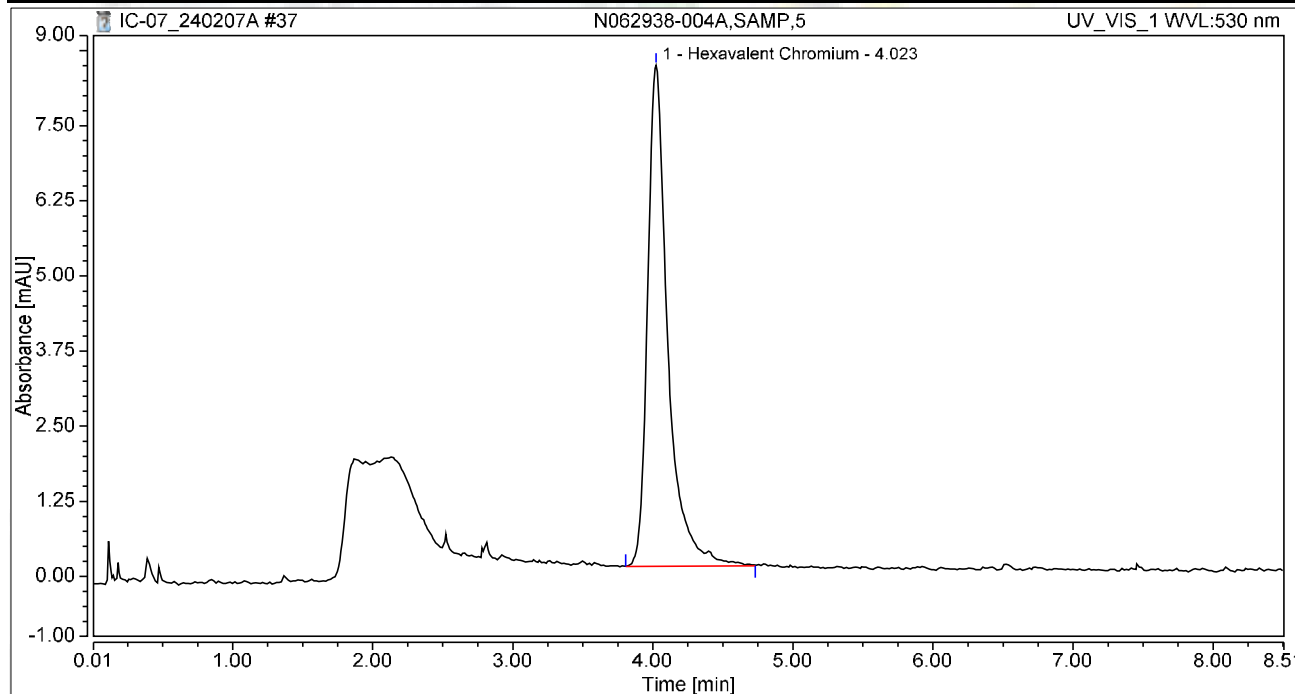
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:56	Sample Weight:	1.0000

Chromatogram



Integration Results

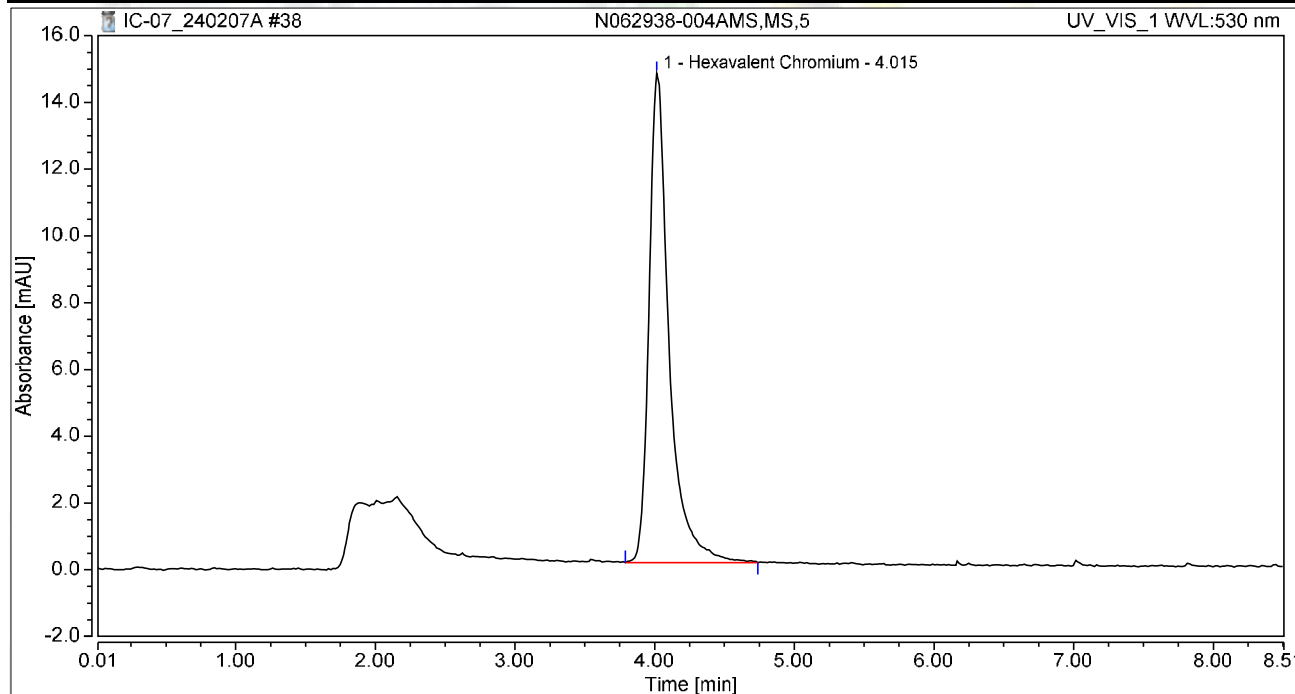
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.395	8.338	100.00	100.00	6.4831
Total:			1.395	8.338	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMS,MS,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:08	Sample Weight:	1.0000

Chromatogram



Integration Results

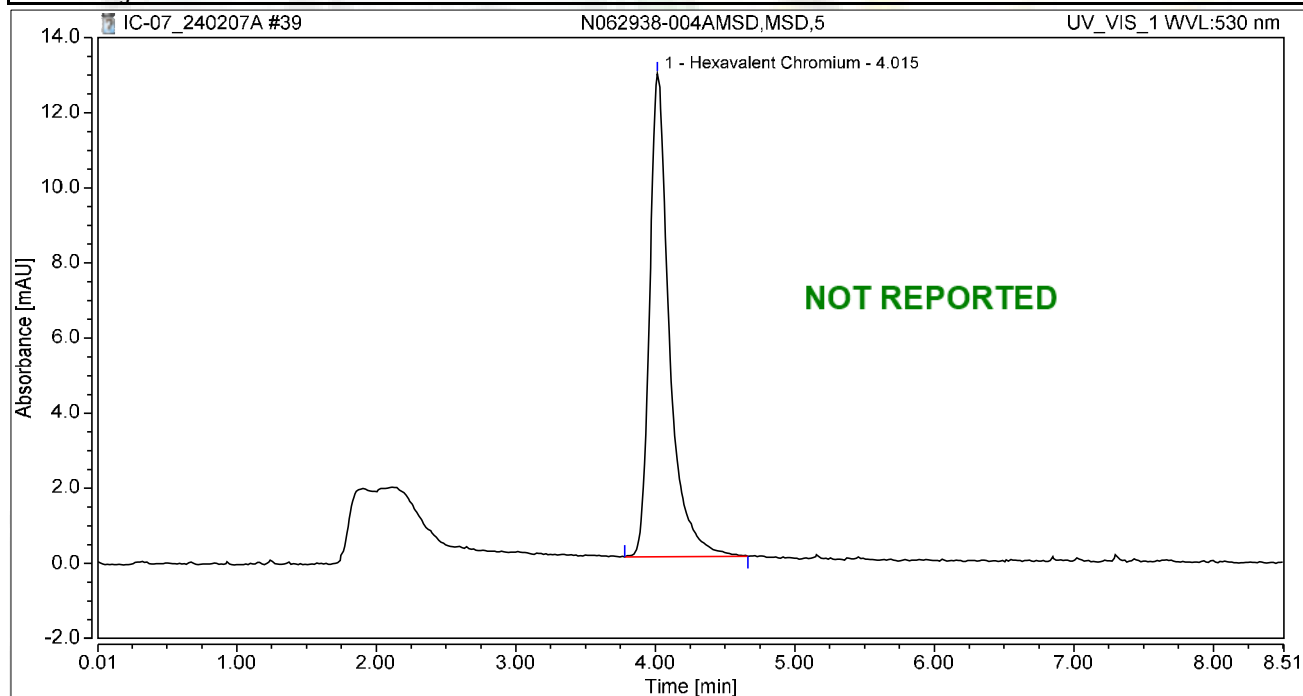
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.441	14.650	100.00	100.00	11.3458
Total:			2.441	14.650	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:18	Sample Weight:	1.0000

Chromatogram



Integration Results

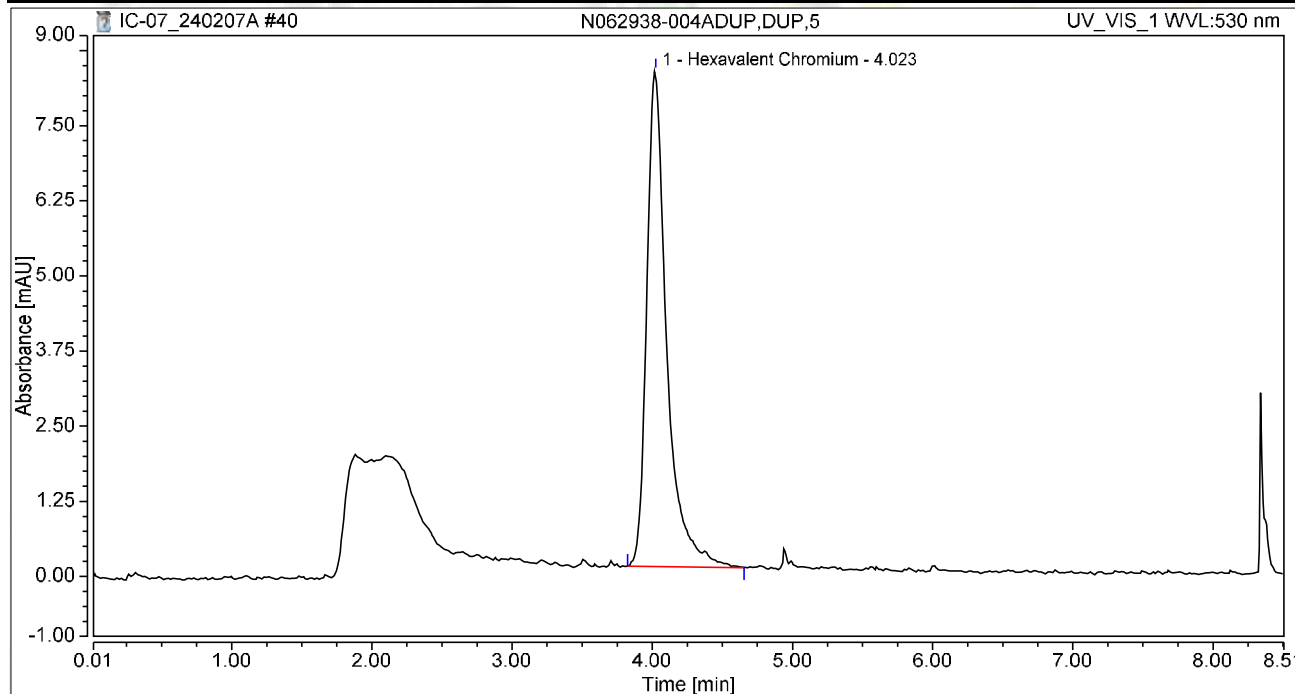
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.119	12.857	100.00	100.00	9.8506
Total:			2.119	12.857	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:27	Sample Weight:	1.0000

Chromatogram



Integration Results

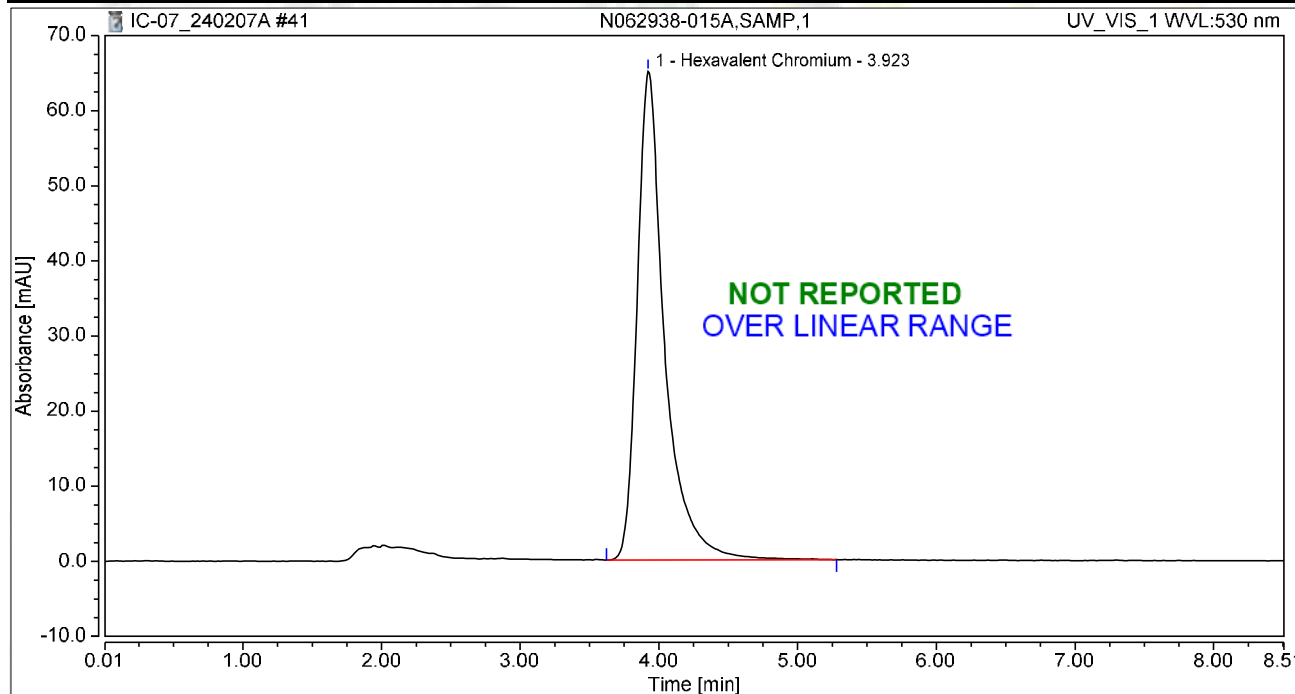
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.364	8.252	100.00	100.00	6.3413
Total:			1.364	8.252	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

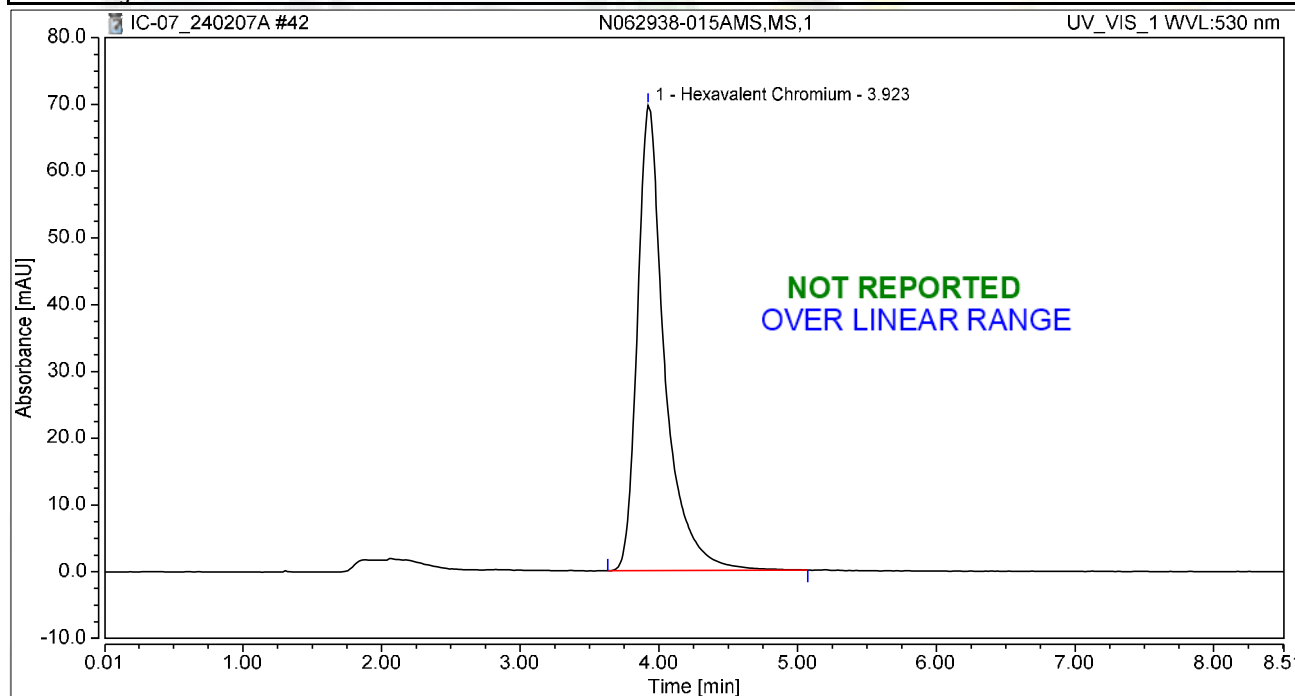
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	14.927	65.032	100.00	100.00	69.3929
Total:			14.927	65.032	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

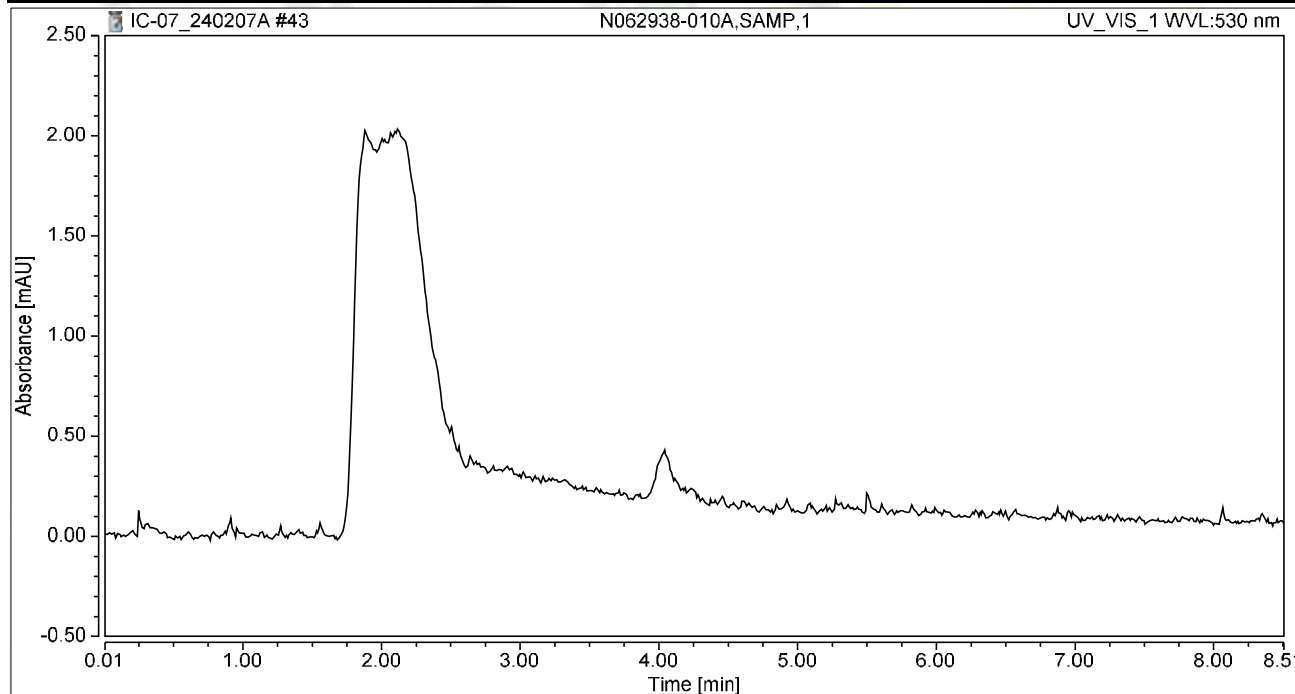
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	15.869	69.692	100.00	100.00	73.7718
Total:			15.869	69.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:55	Sample Weight:	1.0000

Chromatogram



Integration Results

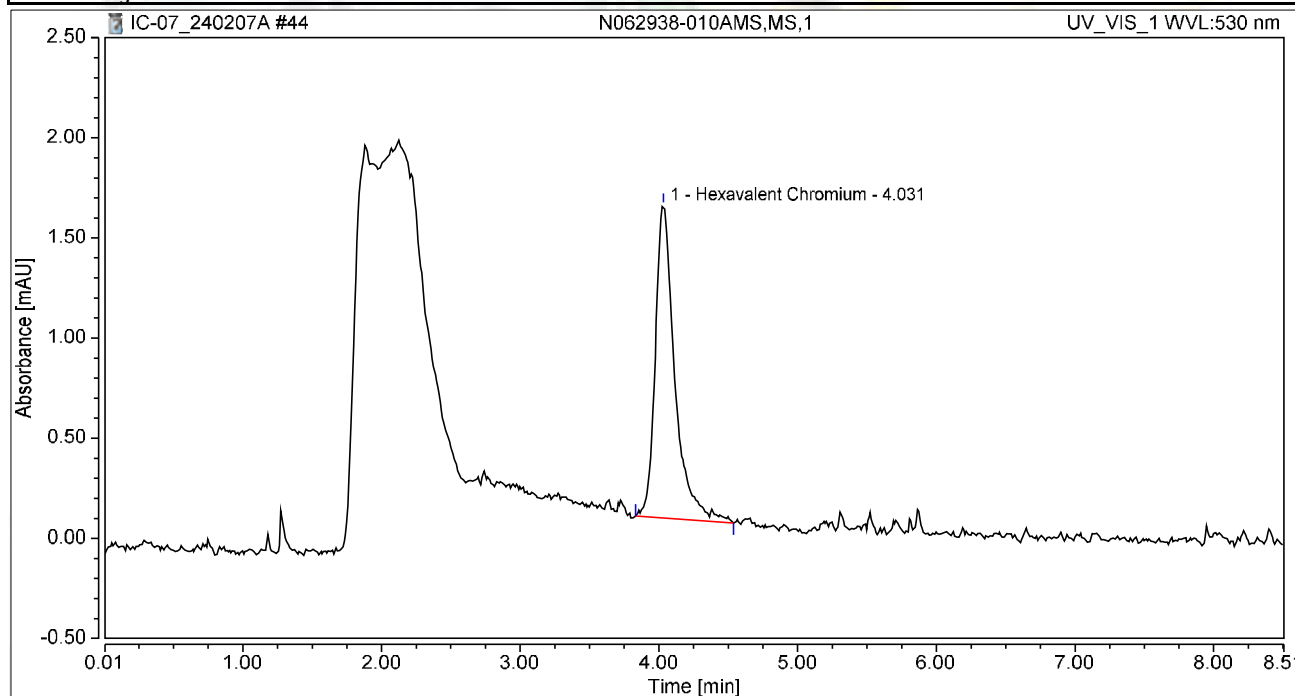
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

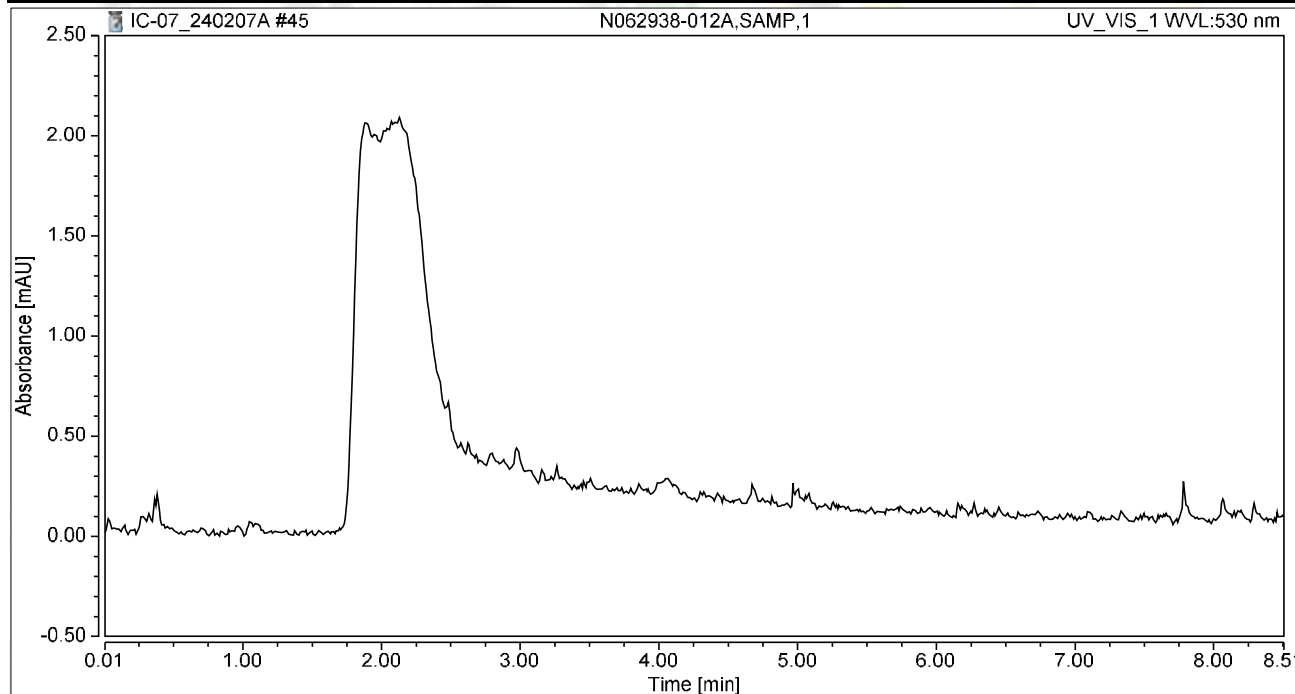
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.255	1.561	100.00	100.00	1.1850
Total:			0.255	1.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

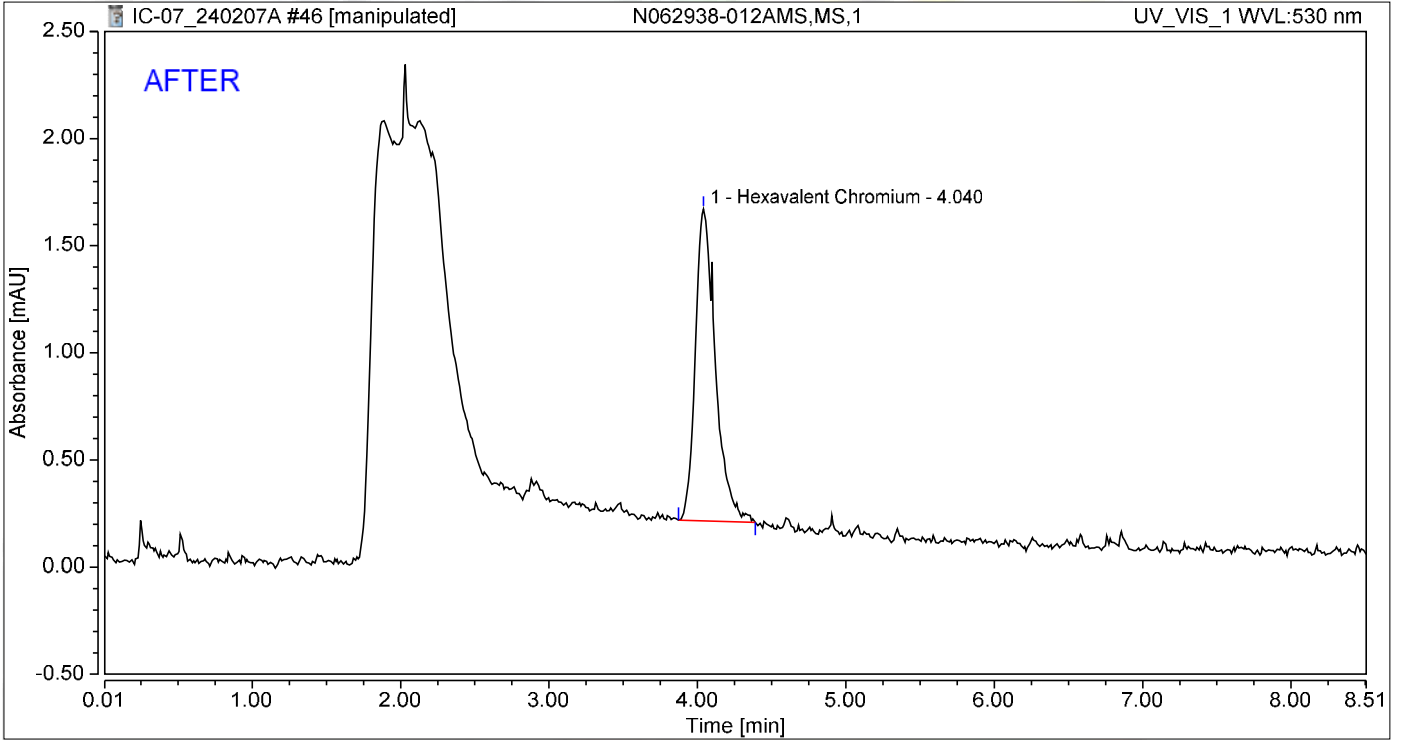
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.228	1.455	100.00	100.00	1.0609
Total:			0.228	1.455	100.00	100.00	

Reviewed by:

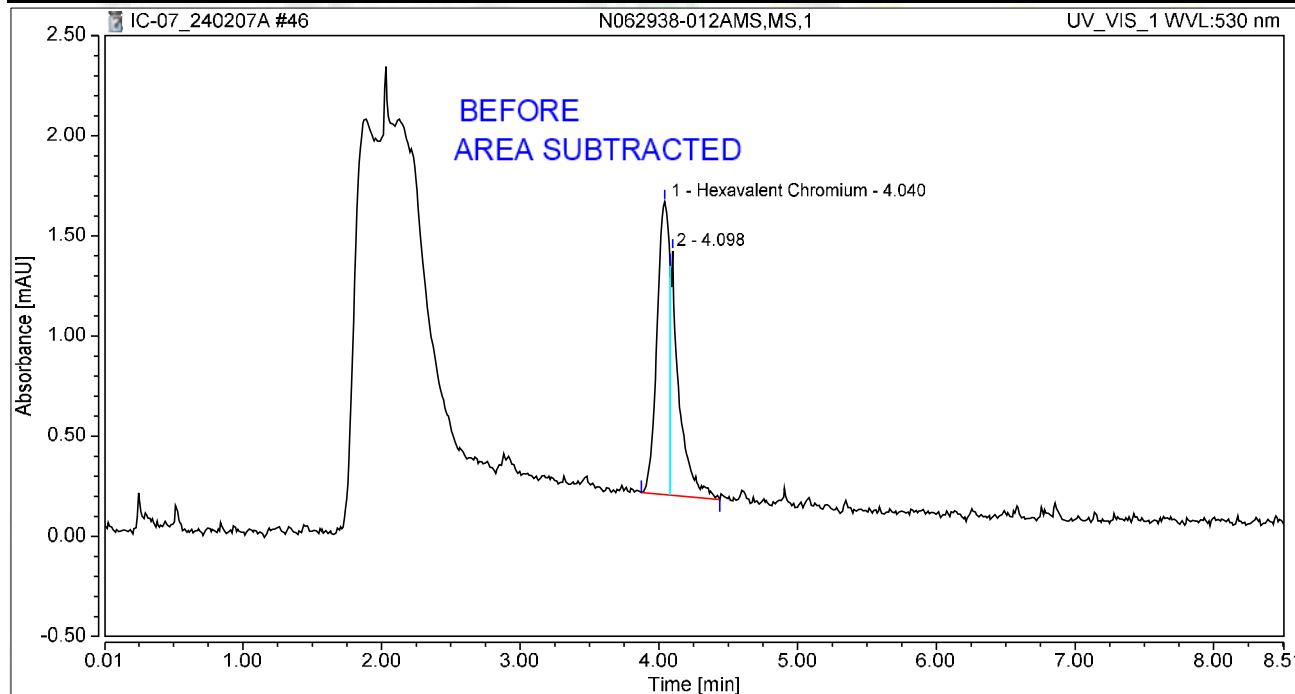
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

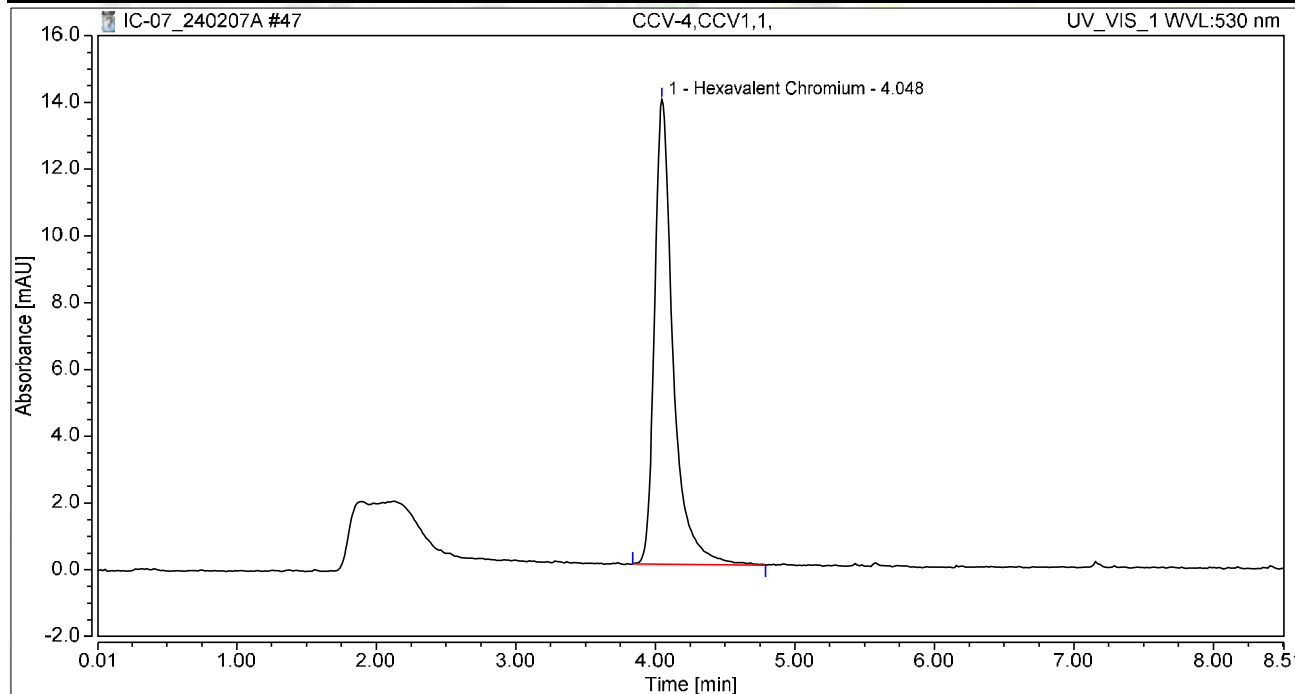
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.146	1.463	62.00	54.53	0.6769
2		4.098	0.089	1.220	38.00	45.47	n.a.
Total:			0.235	2.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

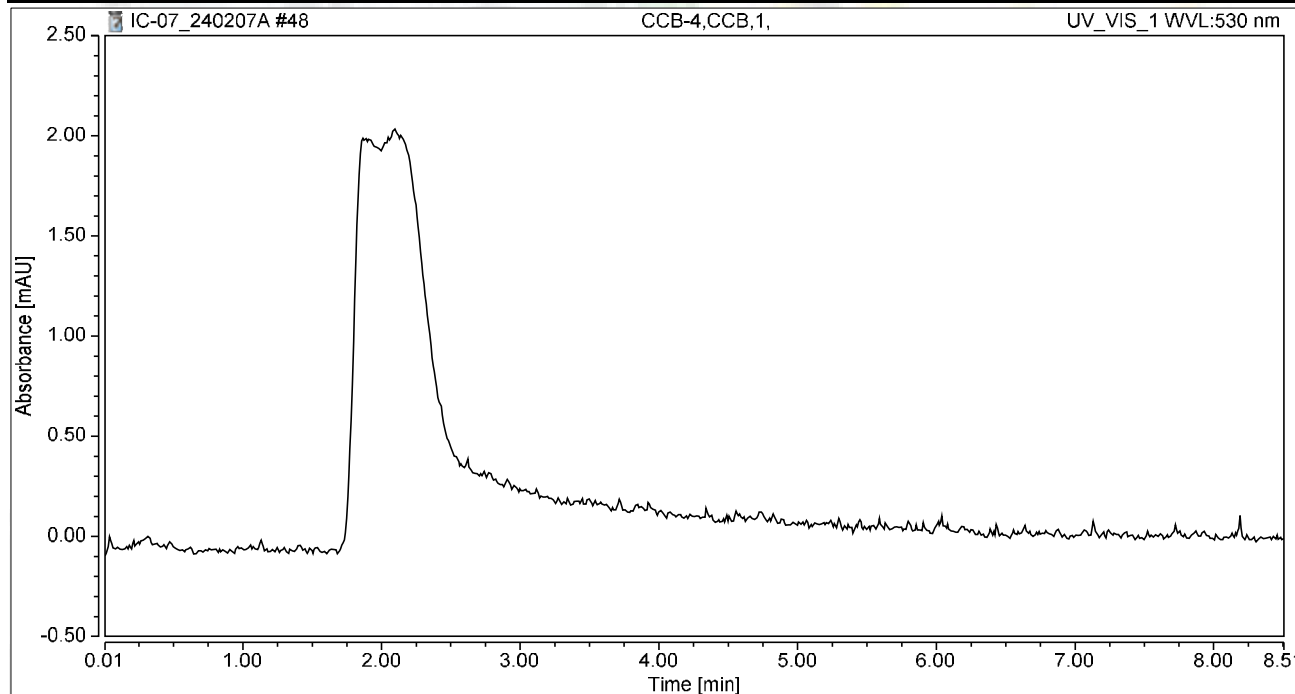
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.148	13.919	100.00	100.00	9.9838
Total:			2.148	13.919	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

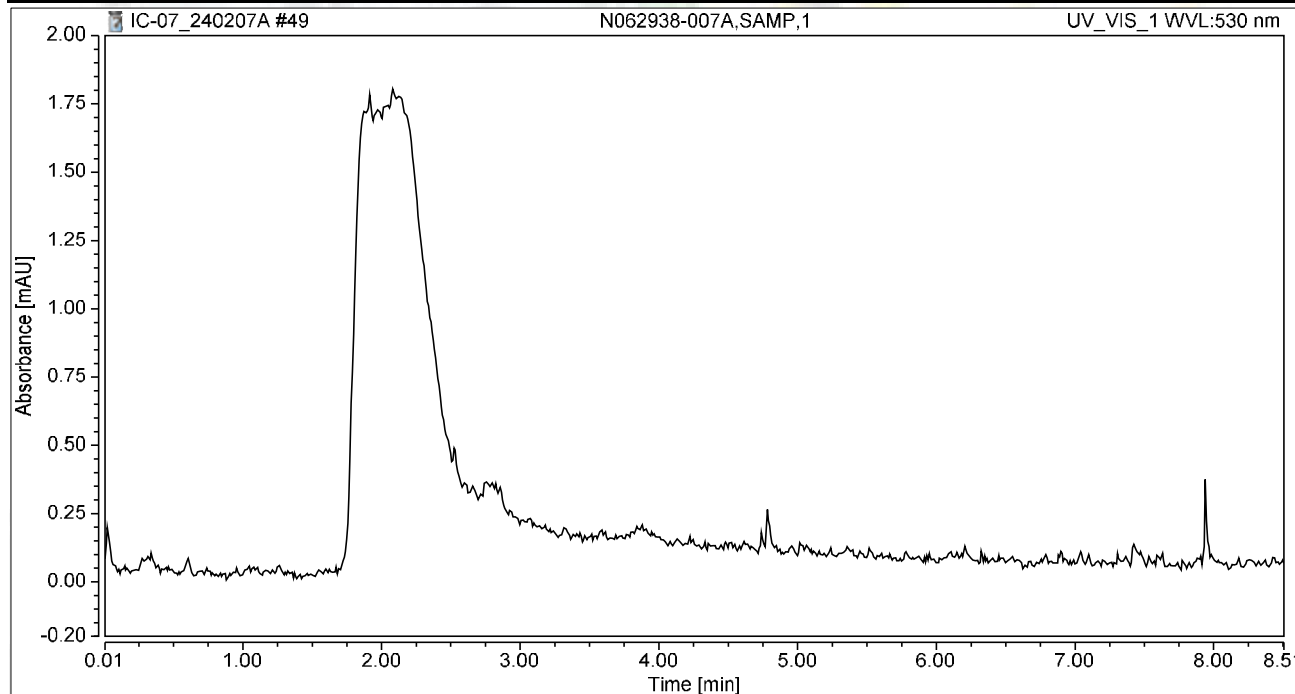
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

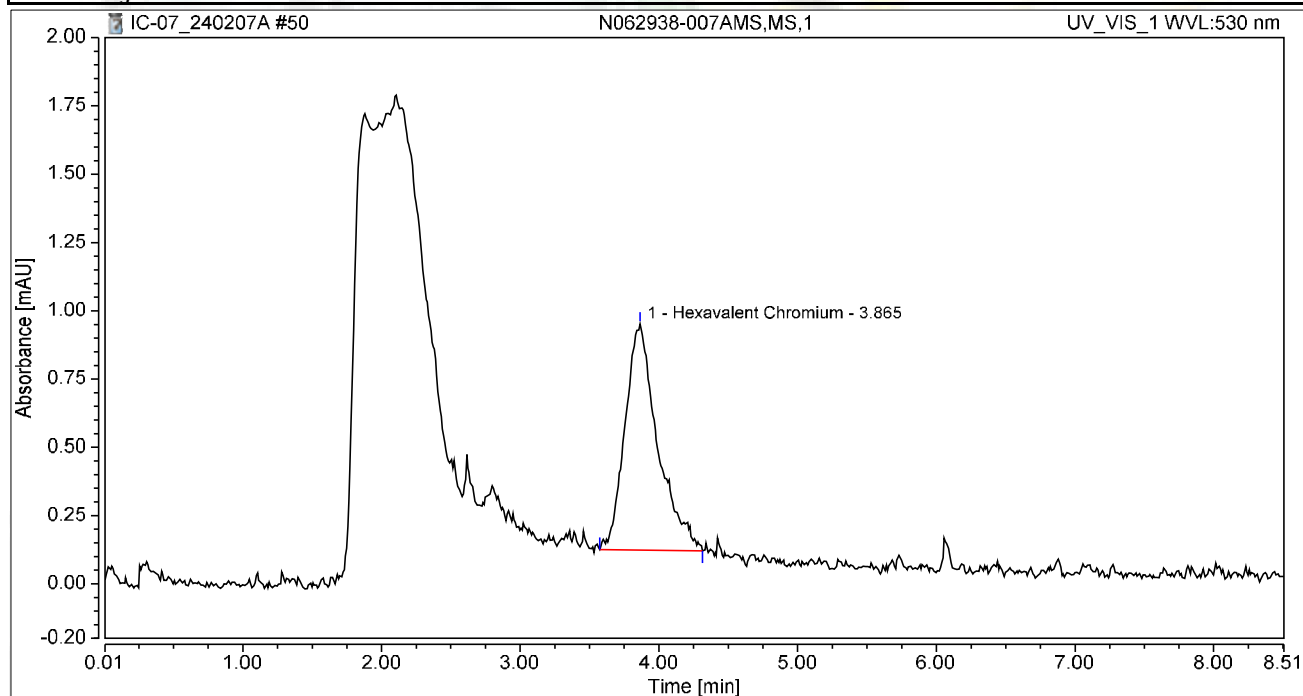
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

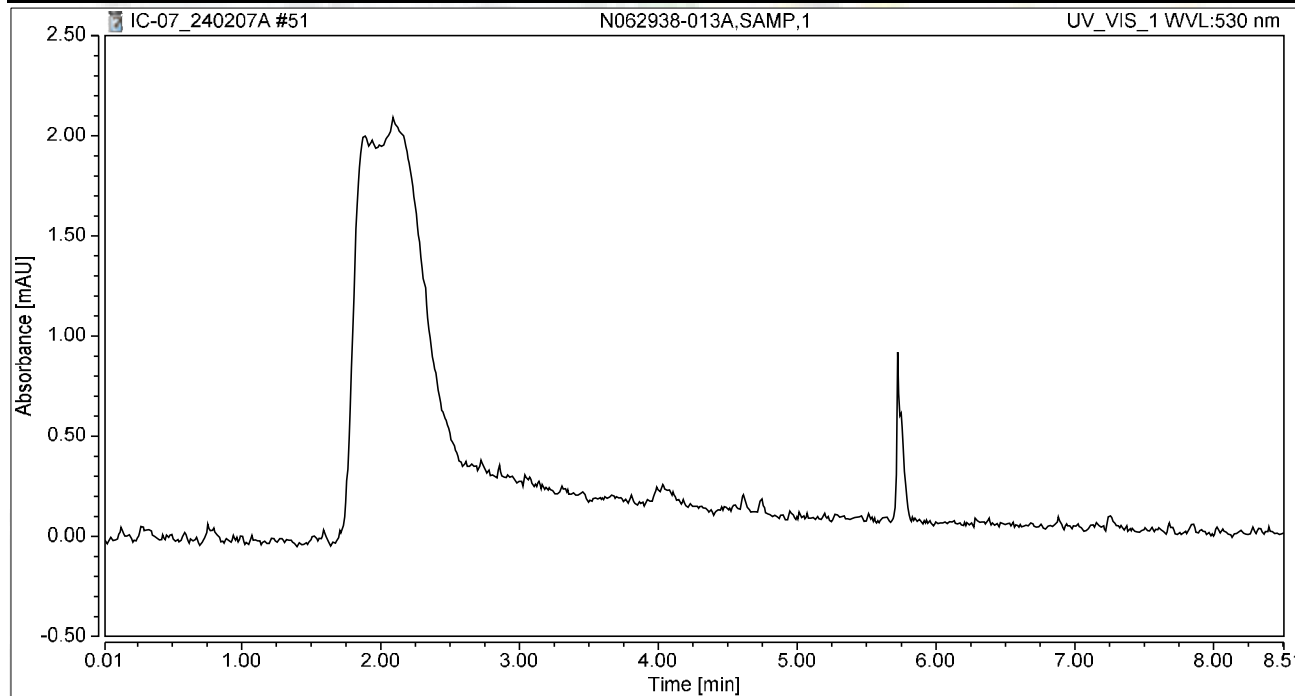
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.225	0.828	100.00	100.00	1.0474
Total:			0.225	0.828	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

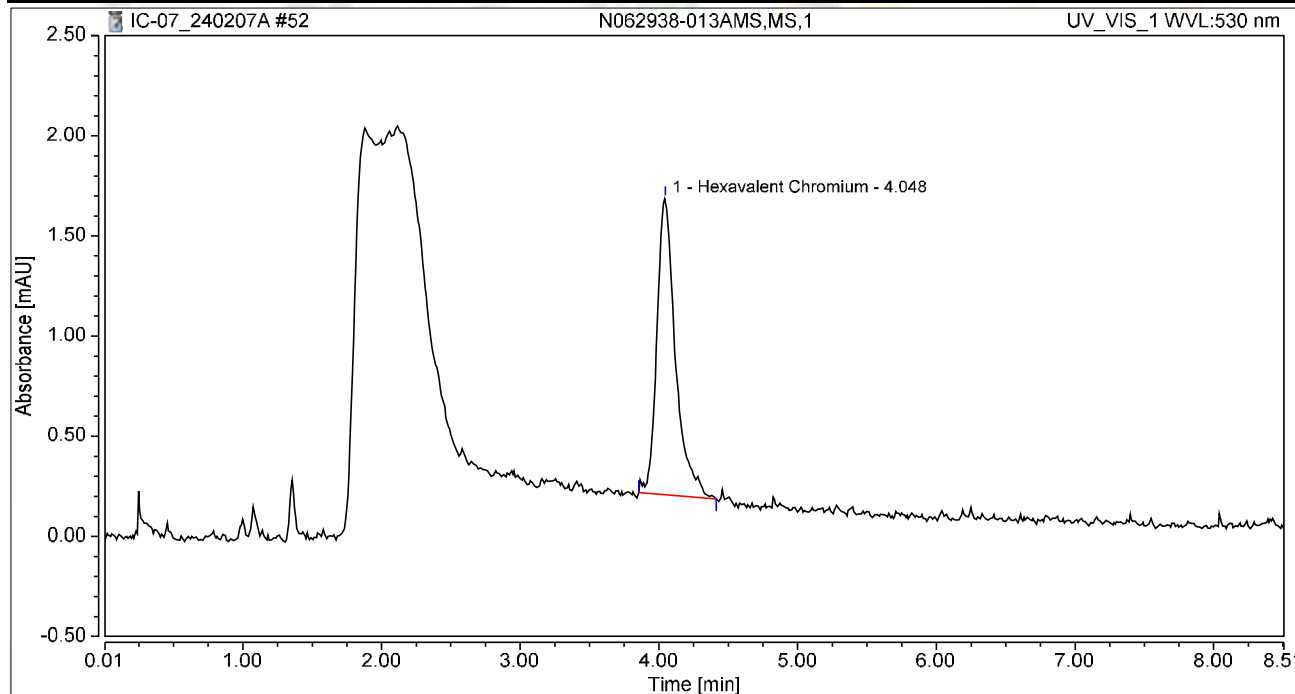
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

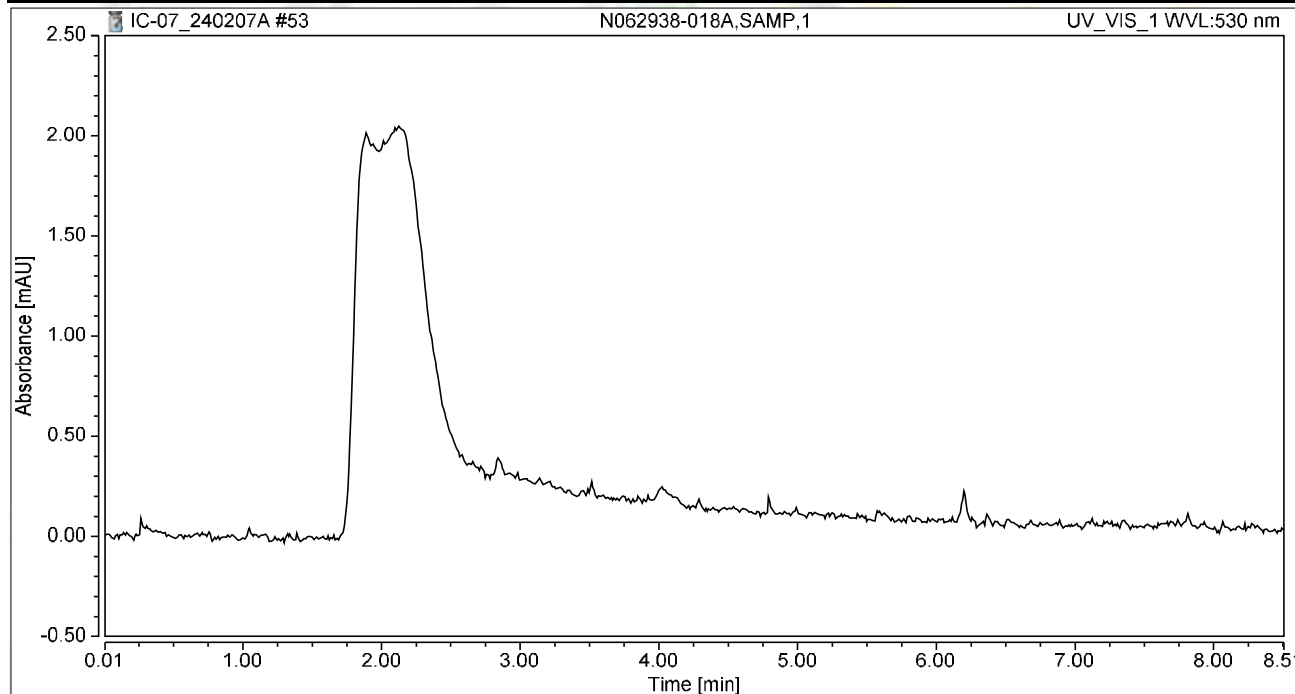
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.229	1.481	100.00	100.00	1.0646
Total:			0.229	1.481	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

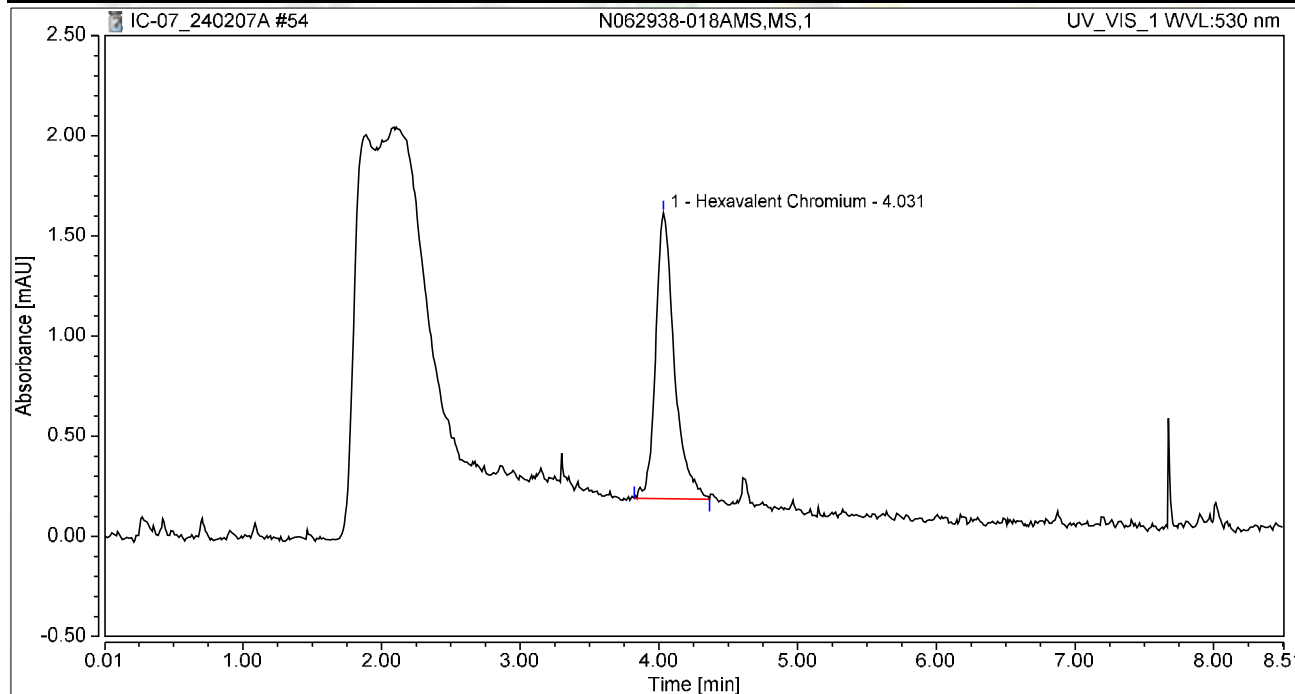
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

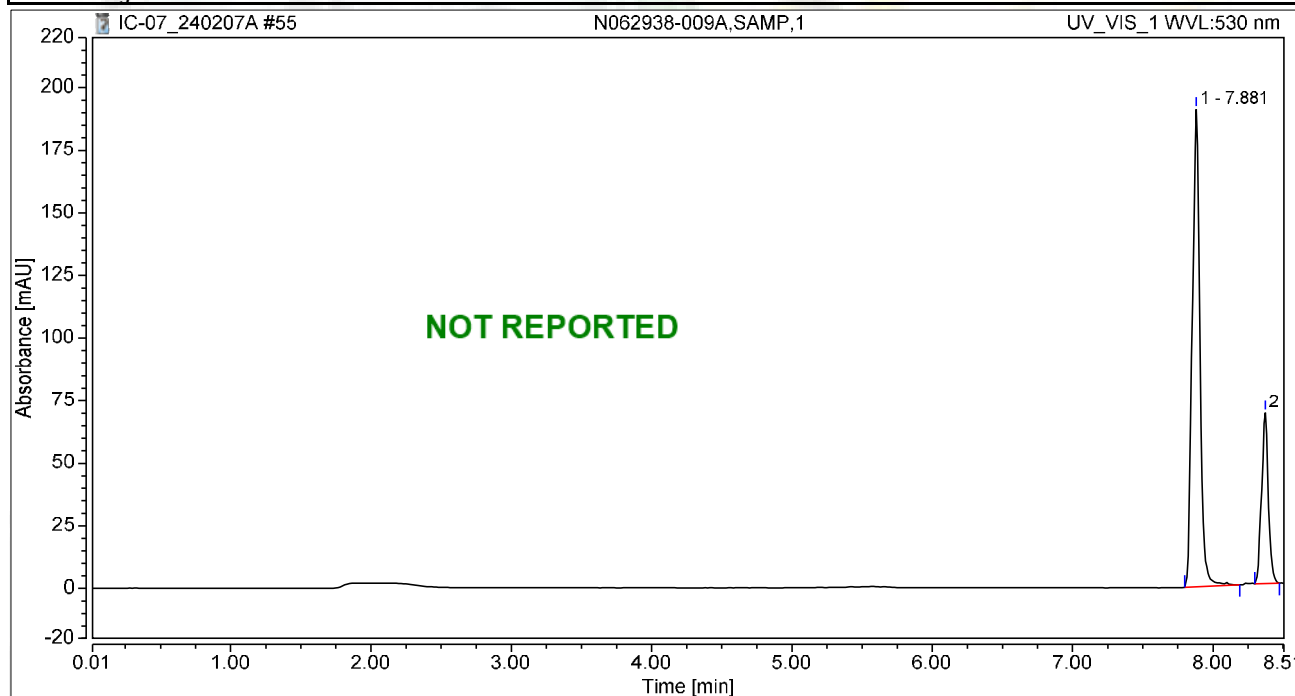
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.222	1.428	100.00	100.00	1.0342
Total:			0.222	1.428	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

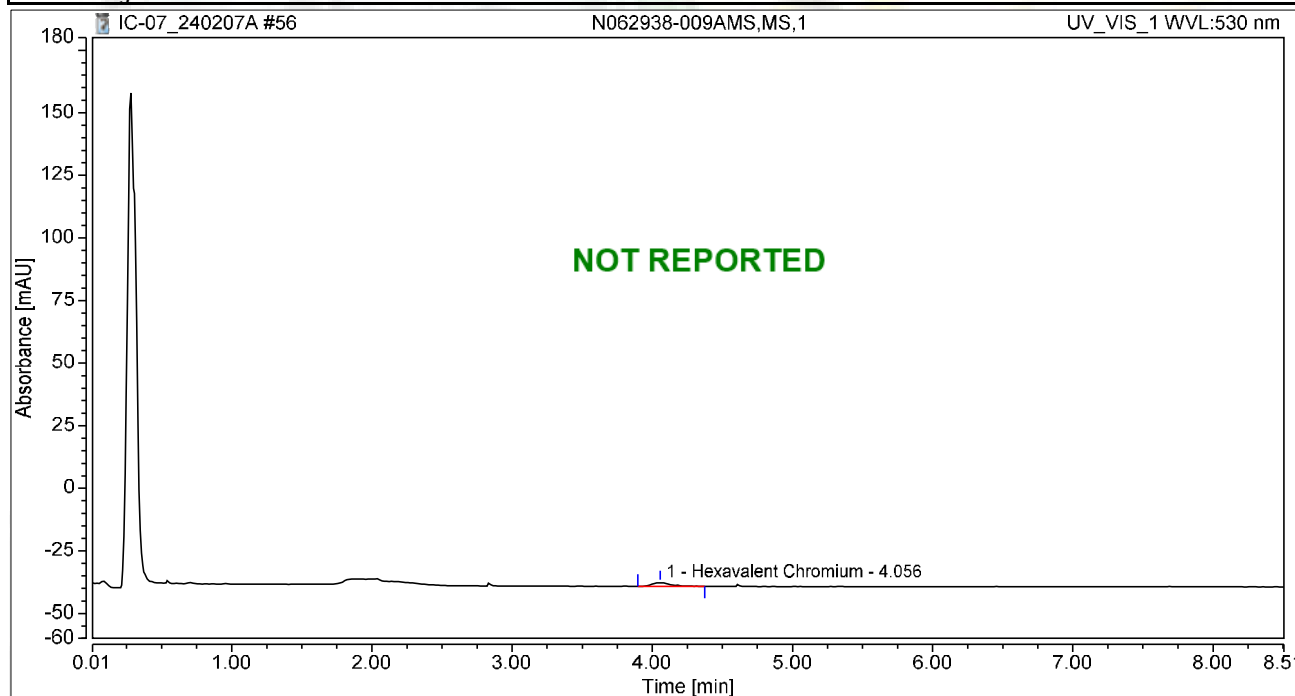
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		7.881	11.989	190.667	75.76	73.58	n.a.
2		8.373	3.836	68.459	24.24	26.42	n.a.
Total:			15.825	259.126	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:59	Sample Weight:	1.0000

Chromatogram



Integration Results

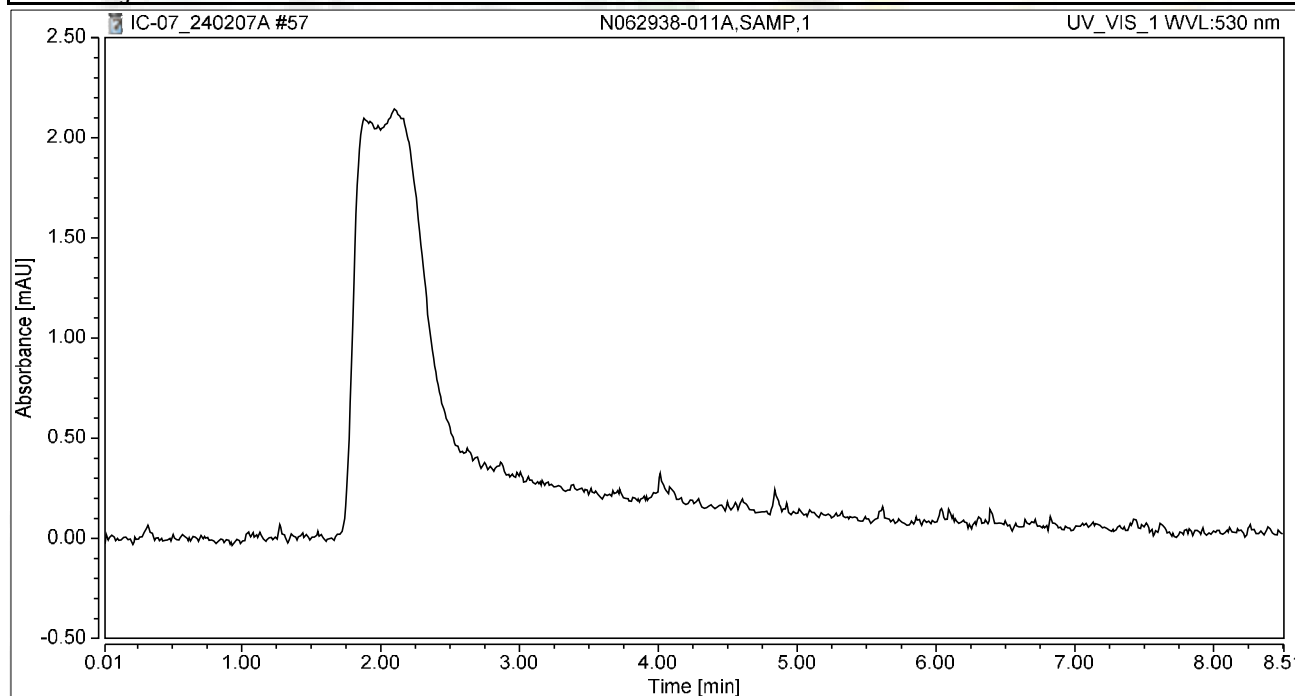
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.223	1.463	100.00	100.00	1.0370
Total:			0.223	1.463	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

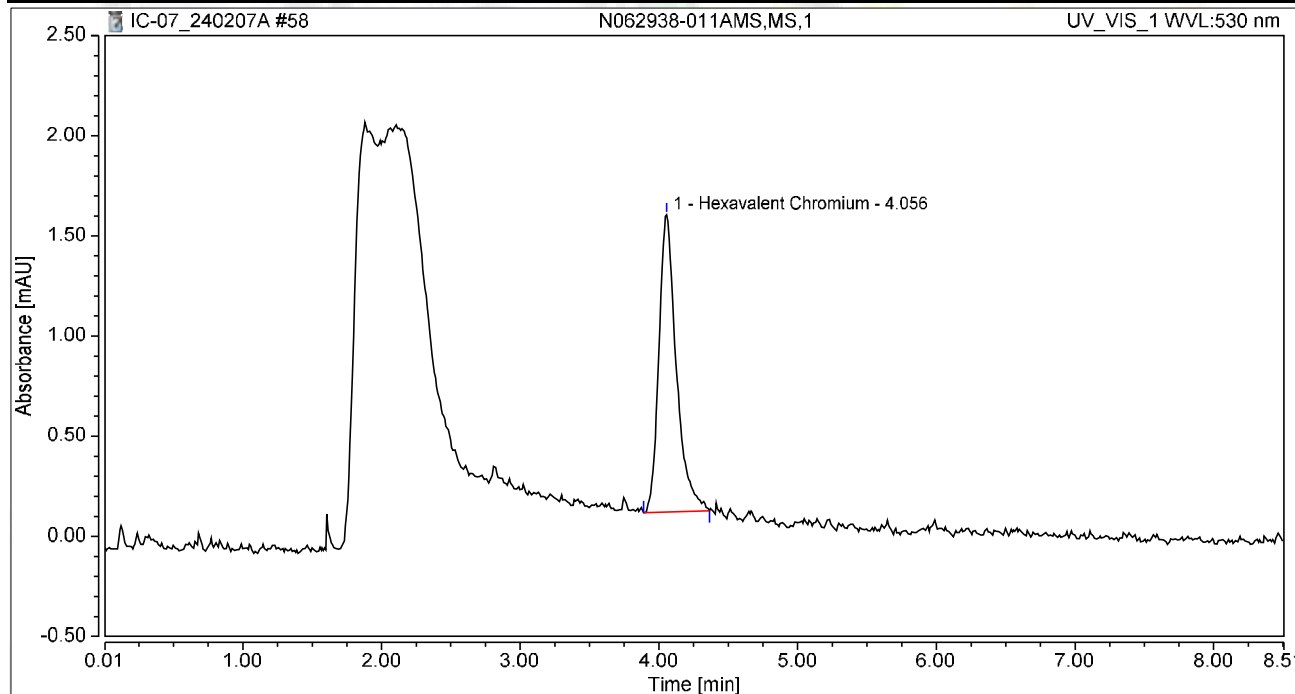
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:18	Sample Weight:	1.0000

Chromatogram



Integration Results

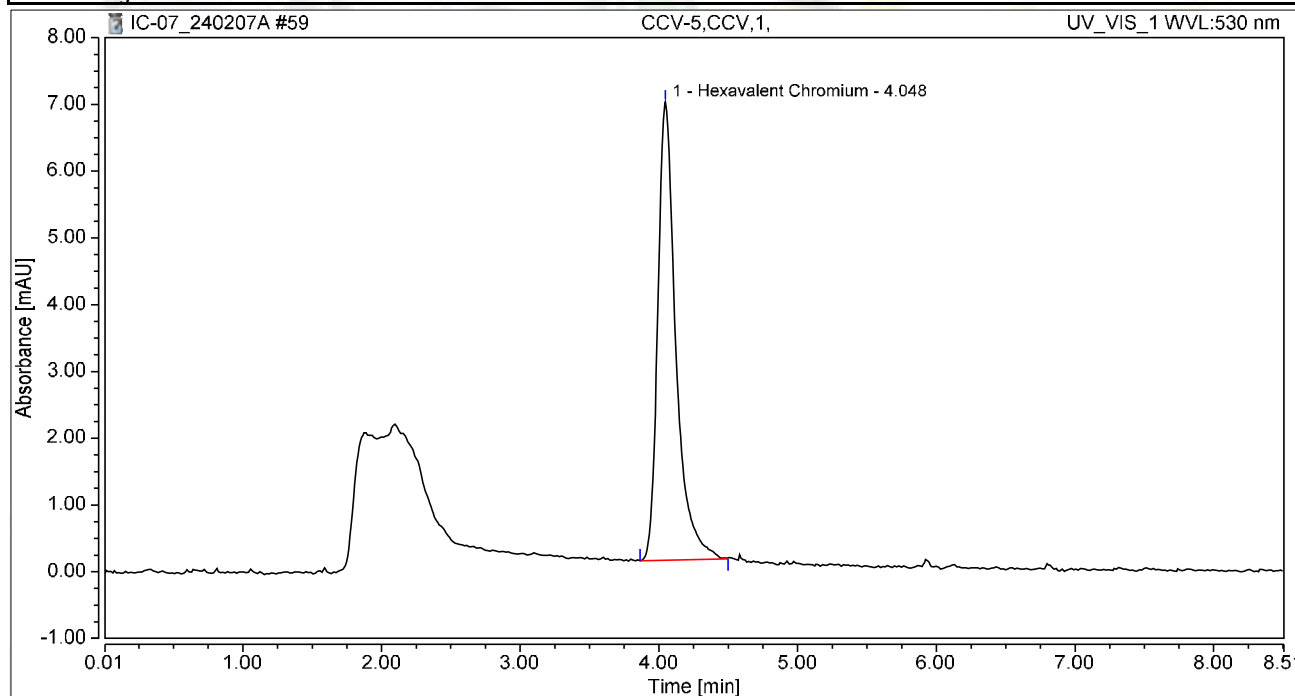
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.216	1.485	100.00	100.00	1.0039
Total:			0.216	1.485	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

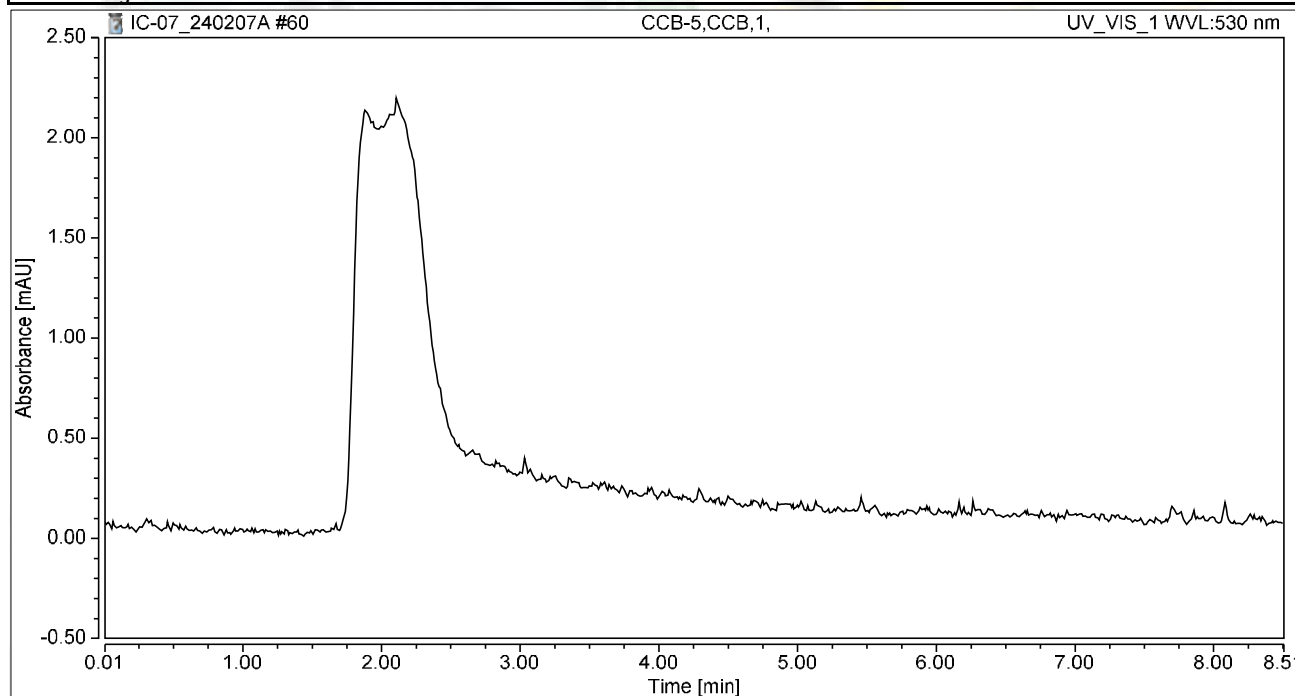
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.036	6.866	100.00	100.00	4.8162
Total:			1.036	6.866	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

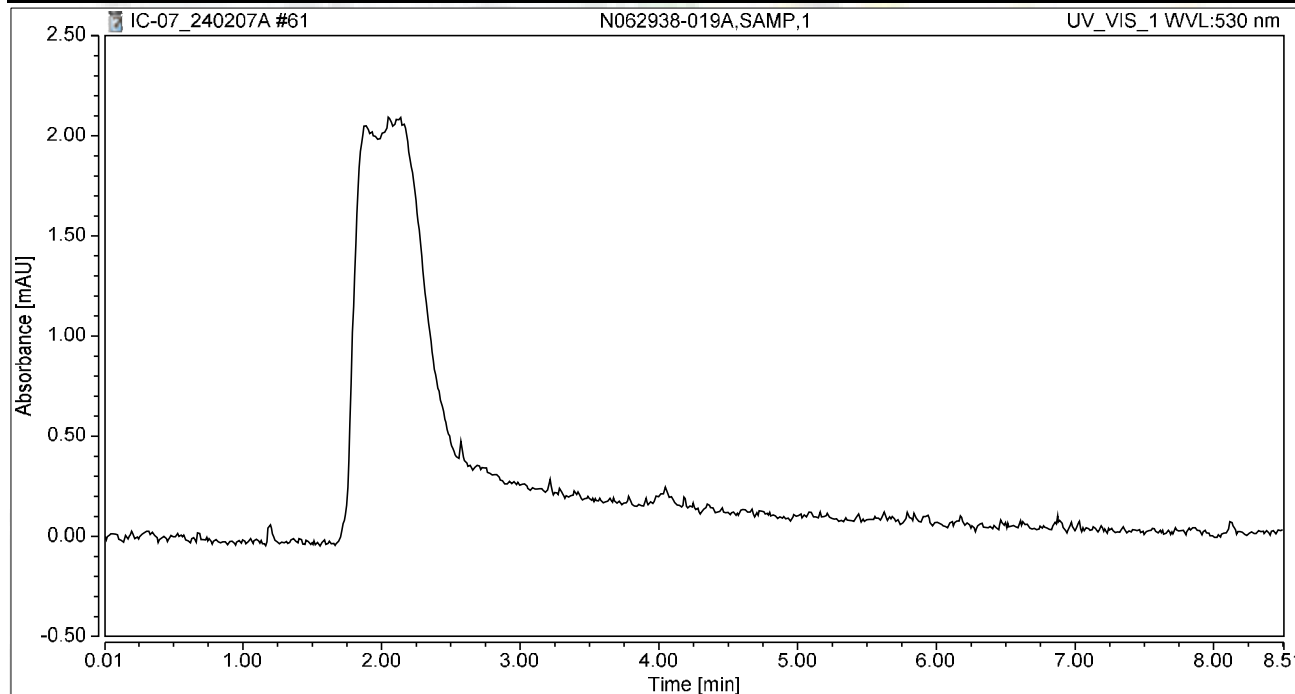
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

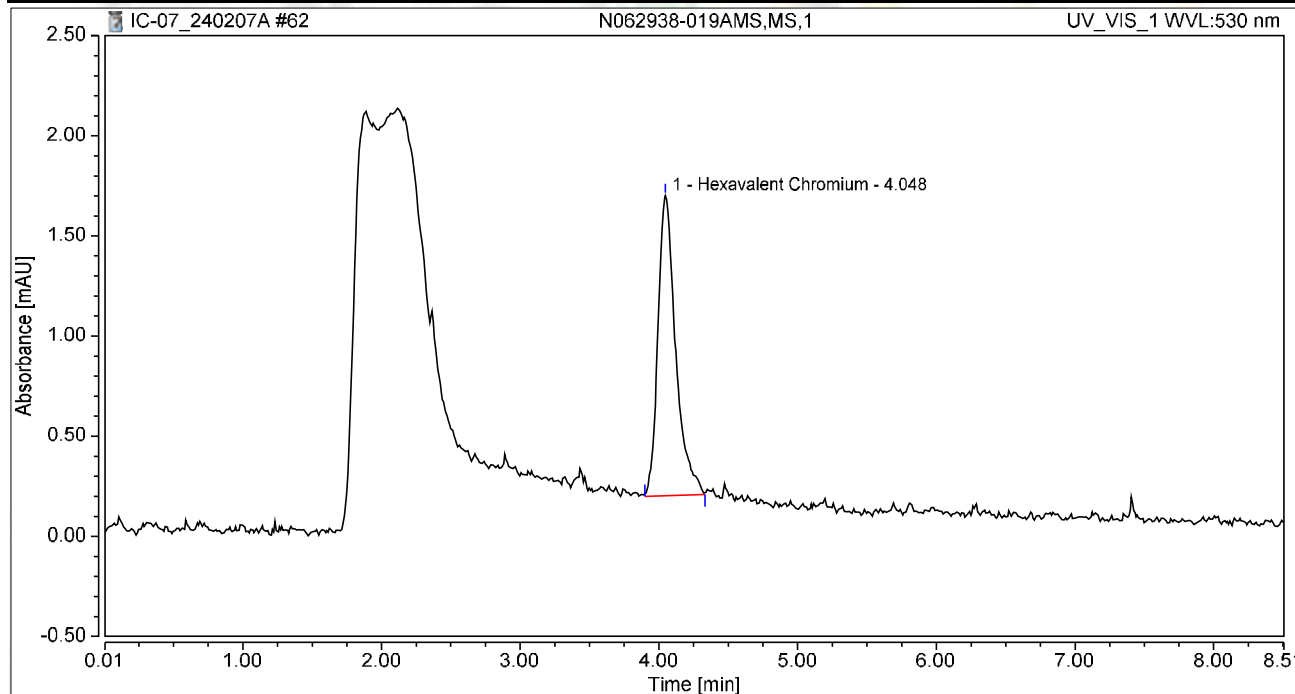
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

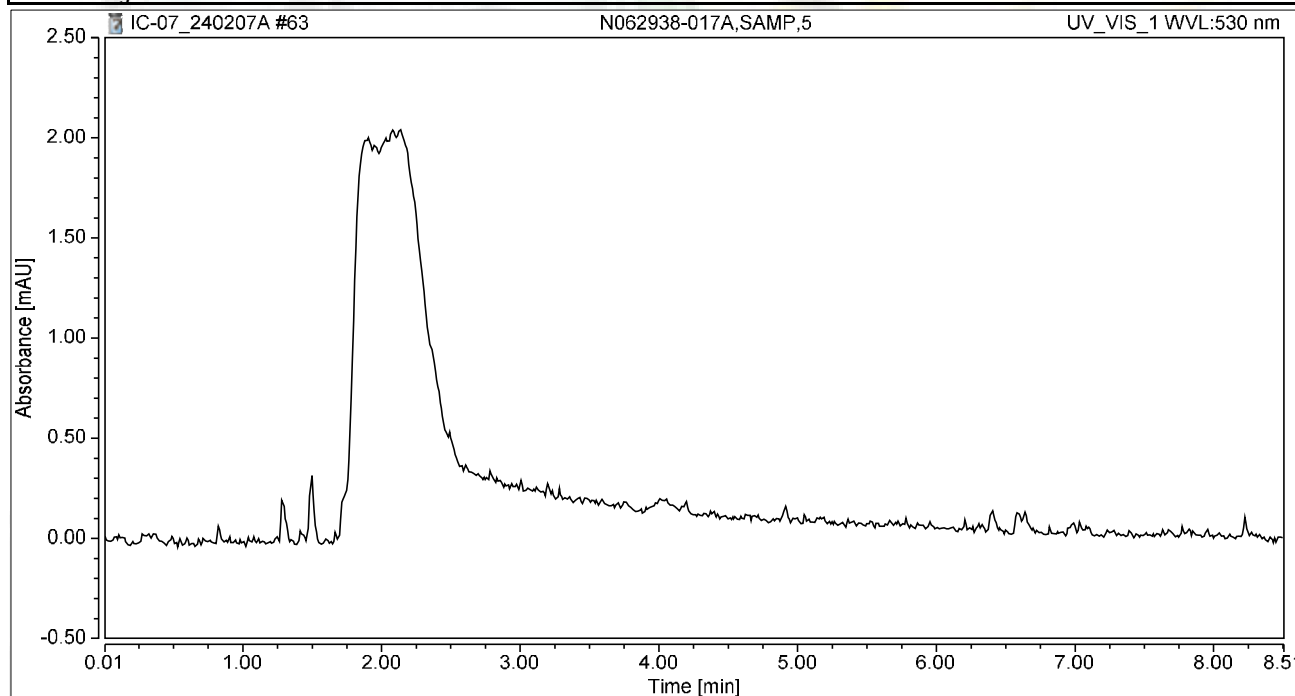
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.222	1.499	100.00	100.00	1.0319
Total:			0.222	1.499	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-017A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

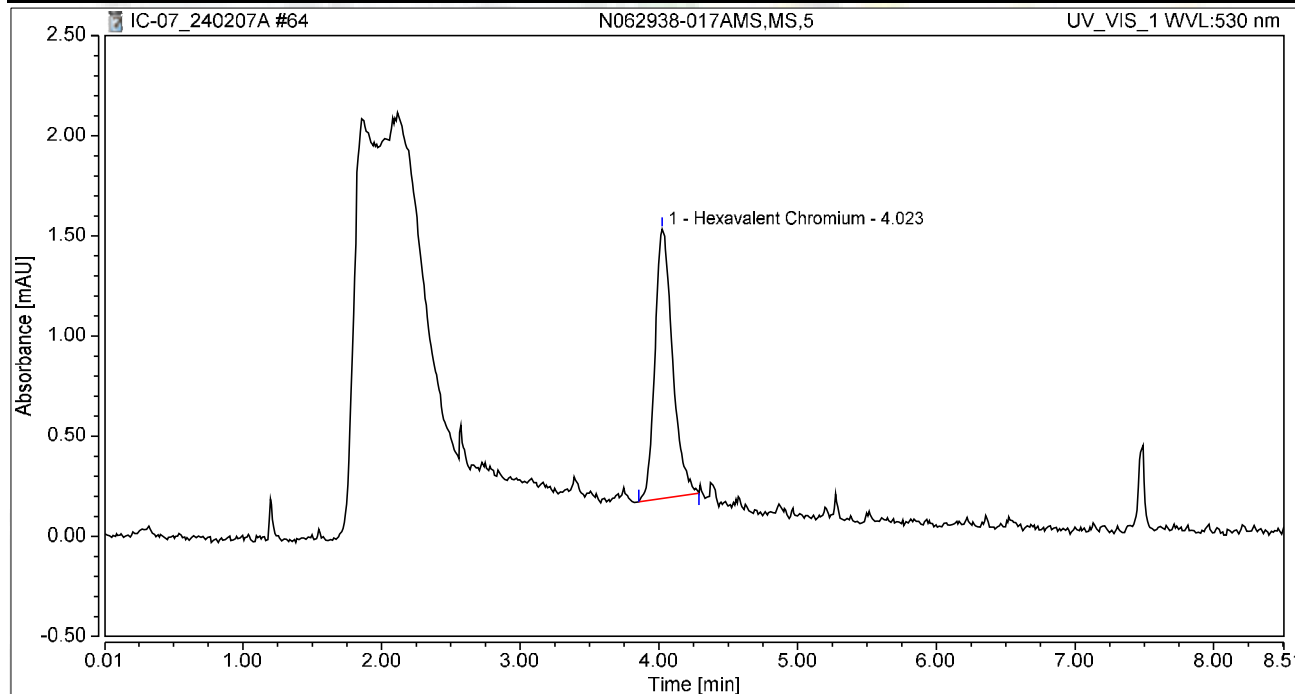
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-017AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

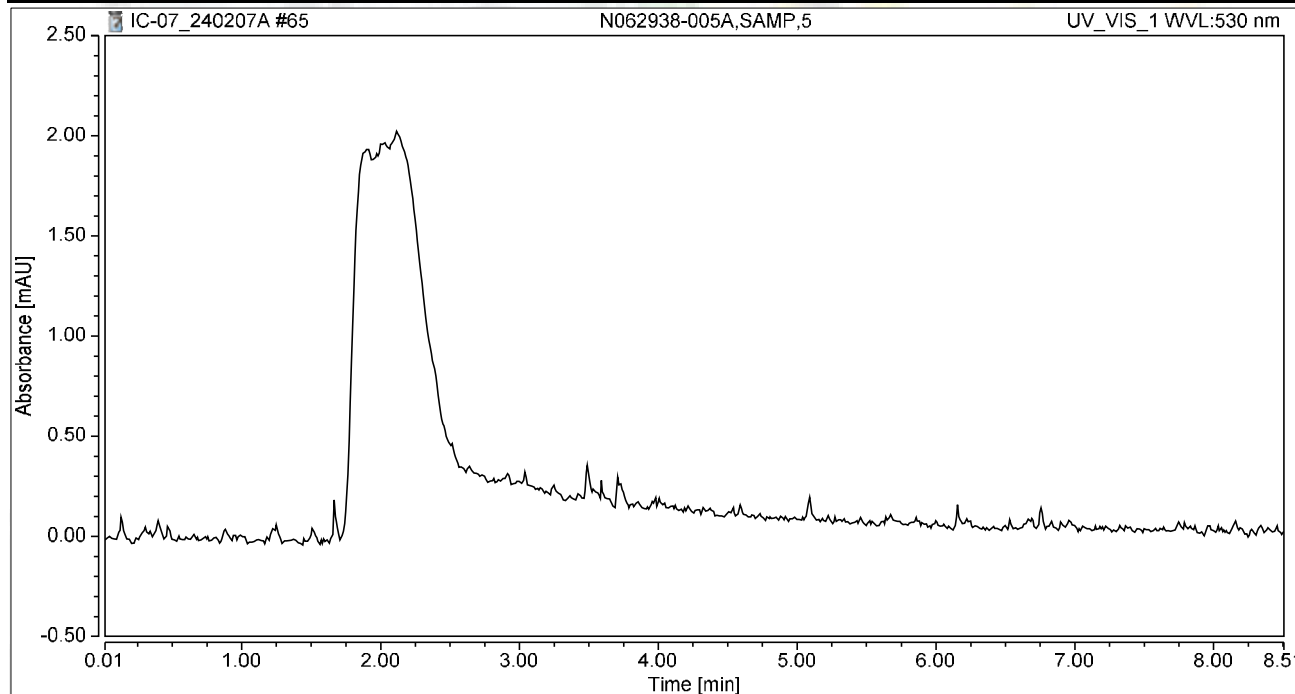
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.198	1.343	100.00	100.00	0.9185
Total:			0.198	1.343	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

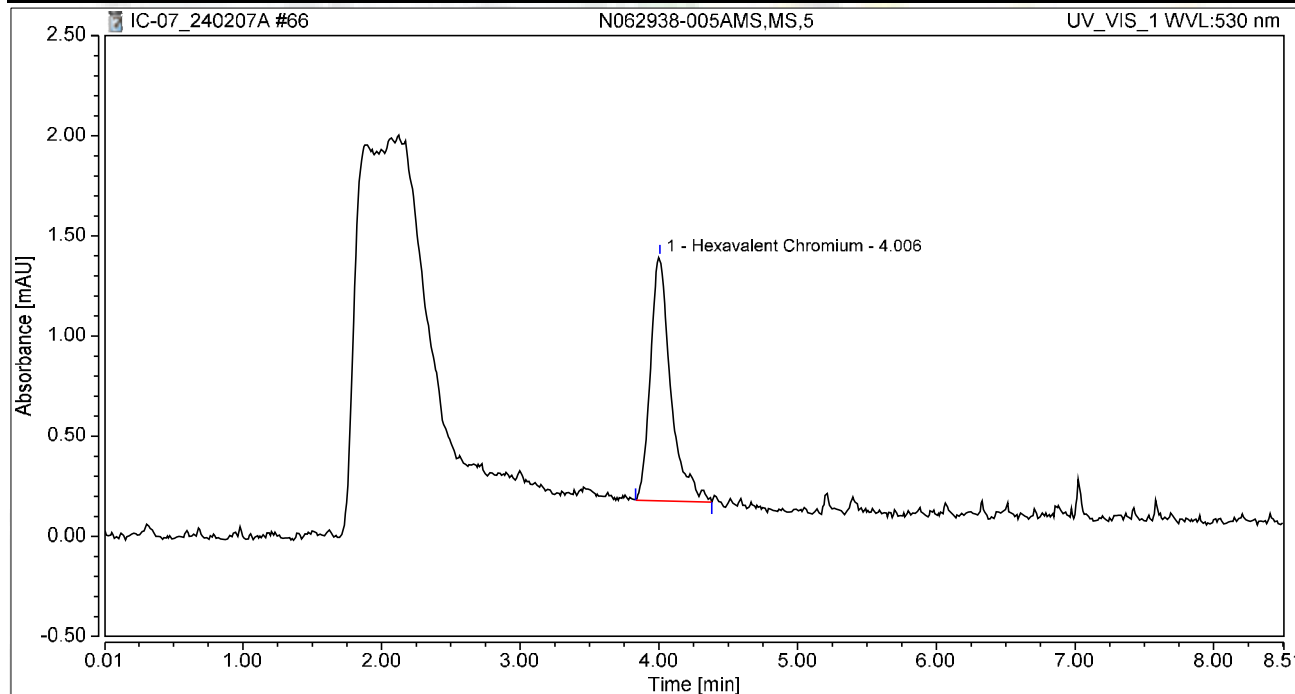
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:33	Sample Weight:	1.0000

Chromatogram



Integration Results

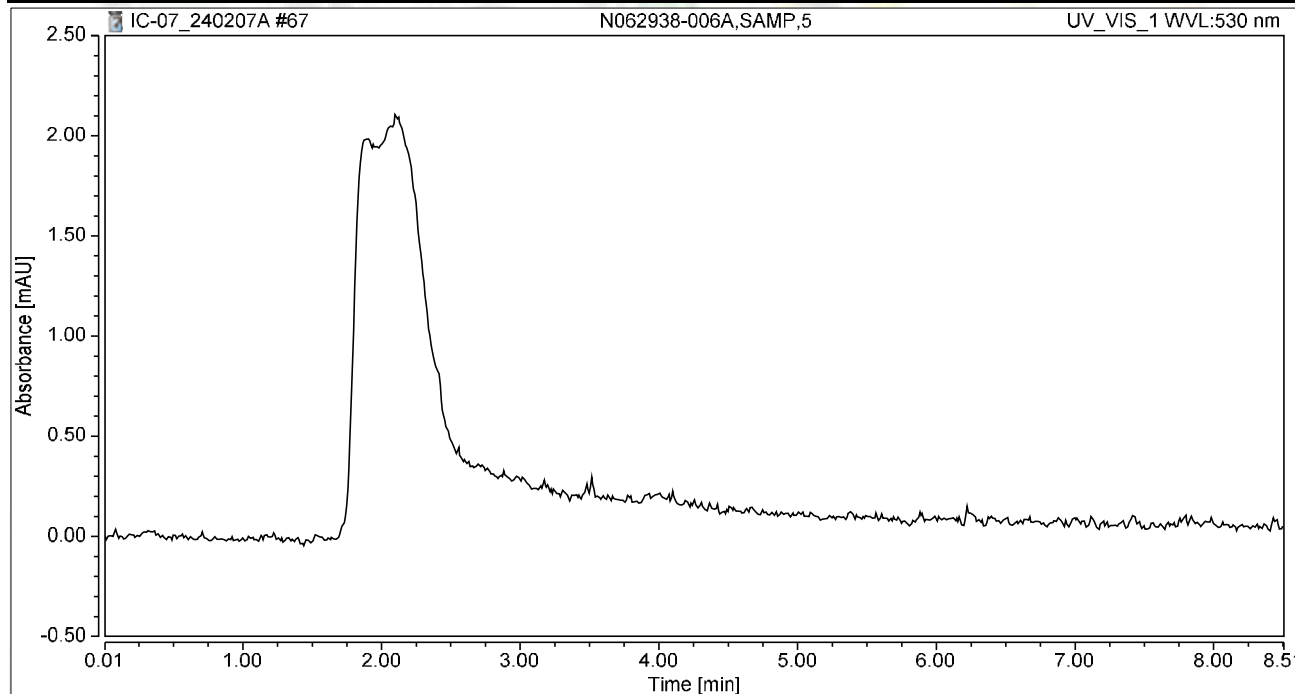
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.207	1.218	100.00	100.00	0.9602
Total:			0.207	1.218	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:46	Sample Weight:	1.0000

Chromatogram



Integration Results

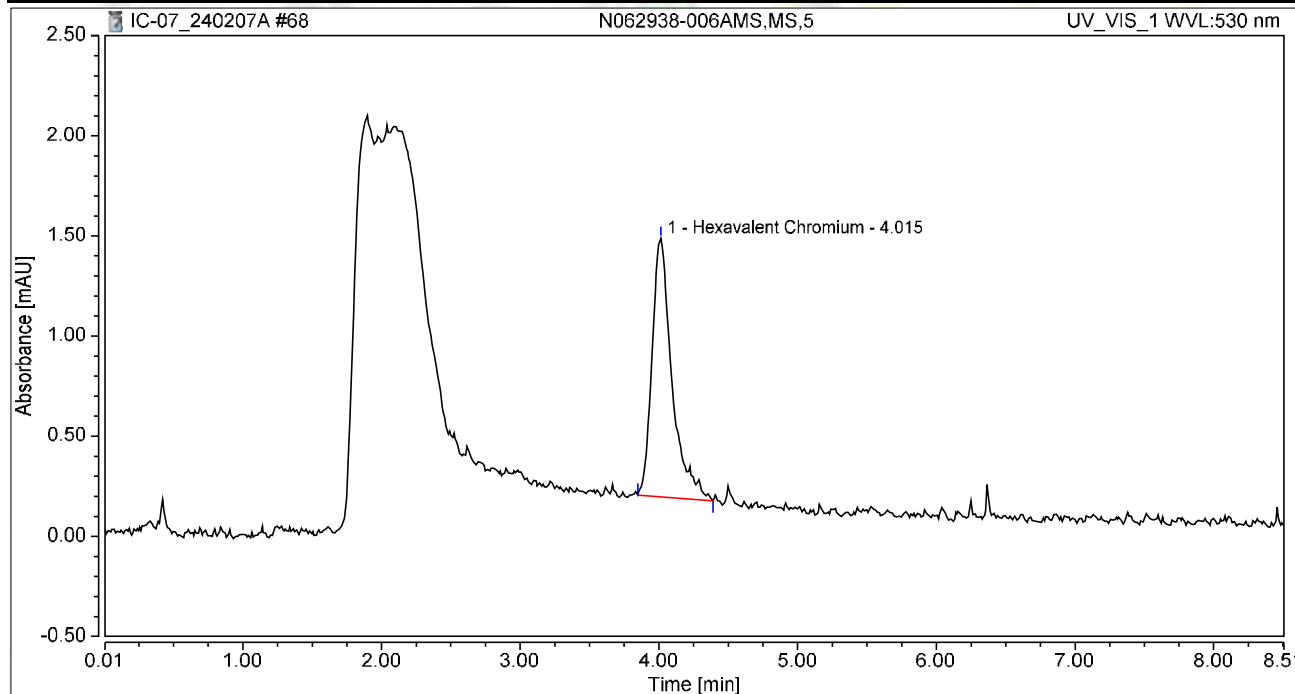
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:56	Sample Weight:	1.0000

Chromatogram



Integration Results

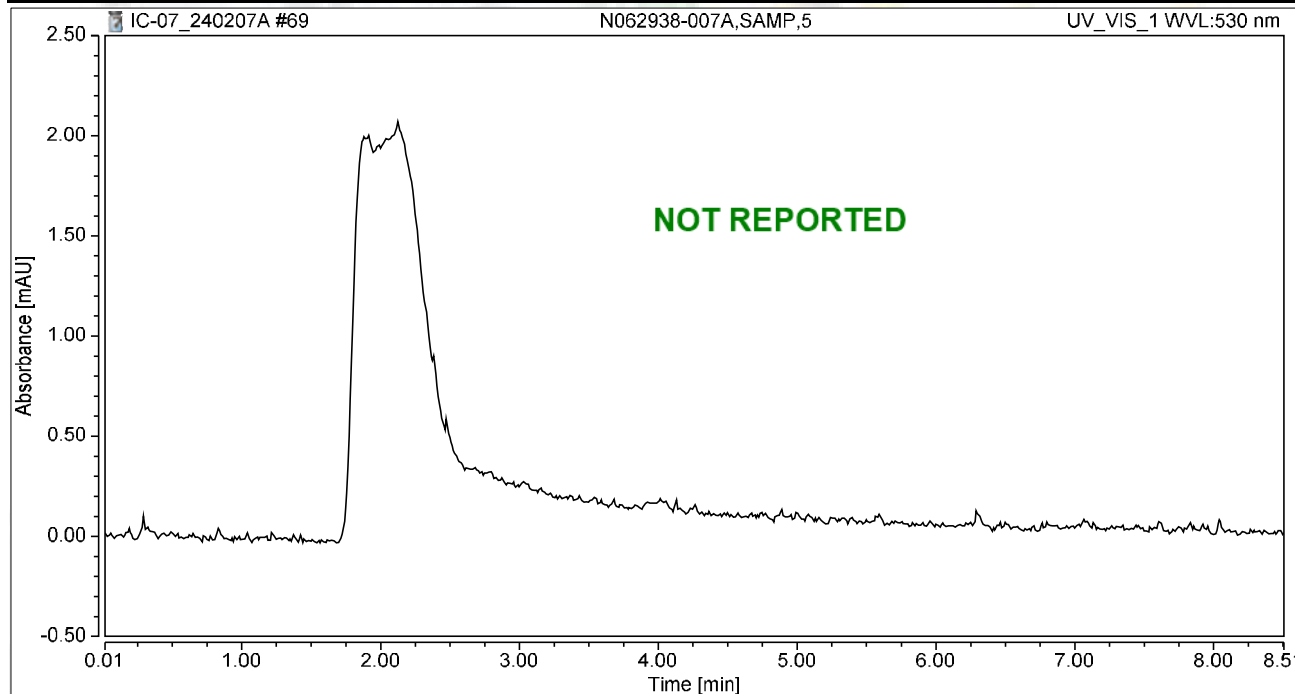
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.214	1.290	100.00	100.00	0.9948
Total:			0.214	1.290	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007A,SAMP,5	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:05	Sample Weight:	1.0000

Chromatogram



Integration Results

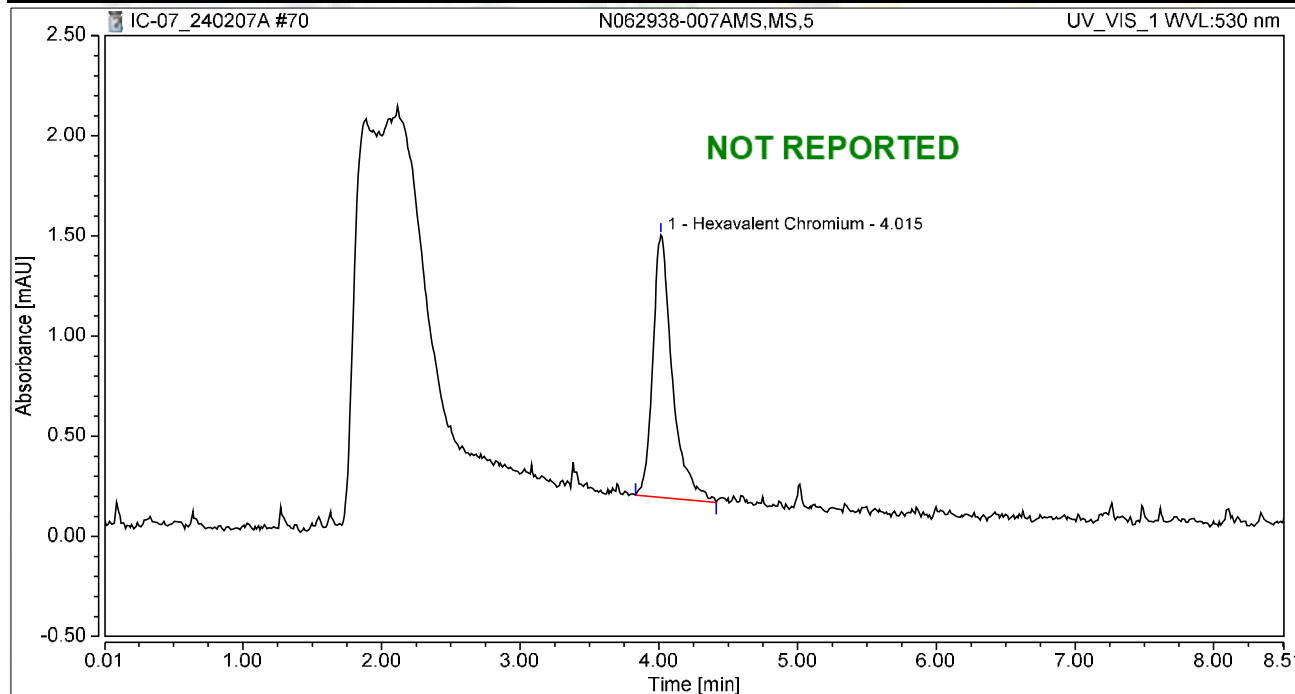
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:14	Sample Weight:	1.0000

Chromatogram



Integration Results

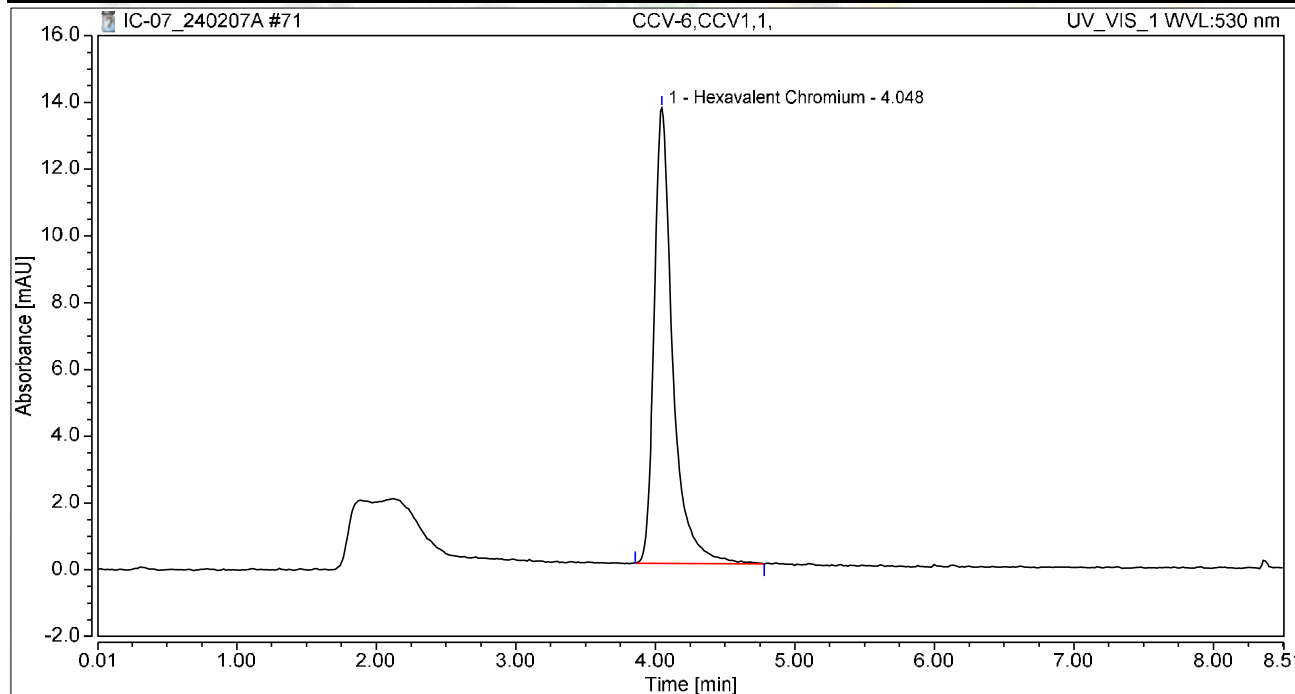
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.214	1.311	100.00	100.00	0.9929
Total:			0.214	1.311	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:24	Sample Weight:	1.0000

Chromatogram



Integration Results

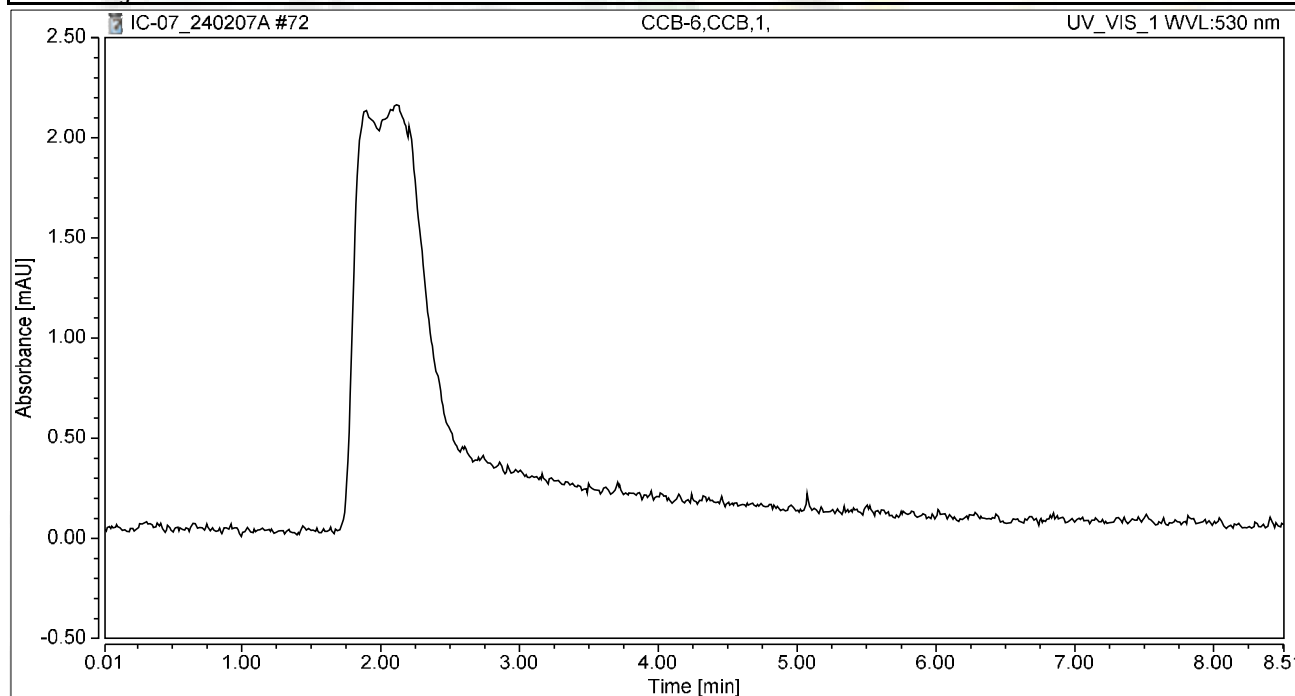
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.109	13.642	100.00	100.00	9.8058
Total:			2.109	13.642	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:33	Sample Weight:	1.0000

Chromatogram



Integration Results

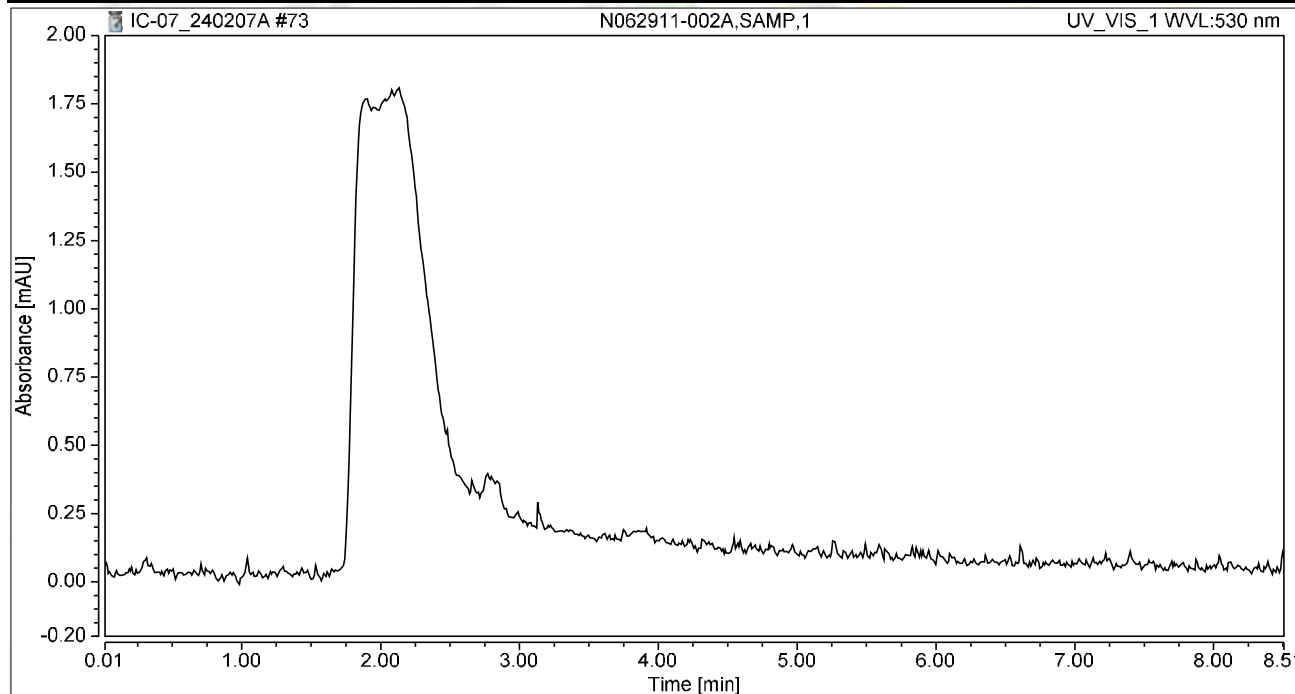
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:43	Sample Weight:	1.0000

Chromatogram



Integration Results

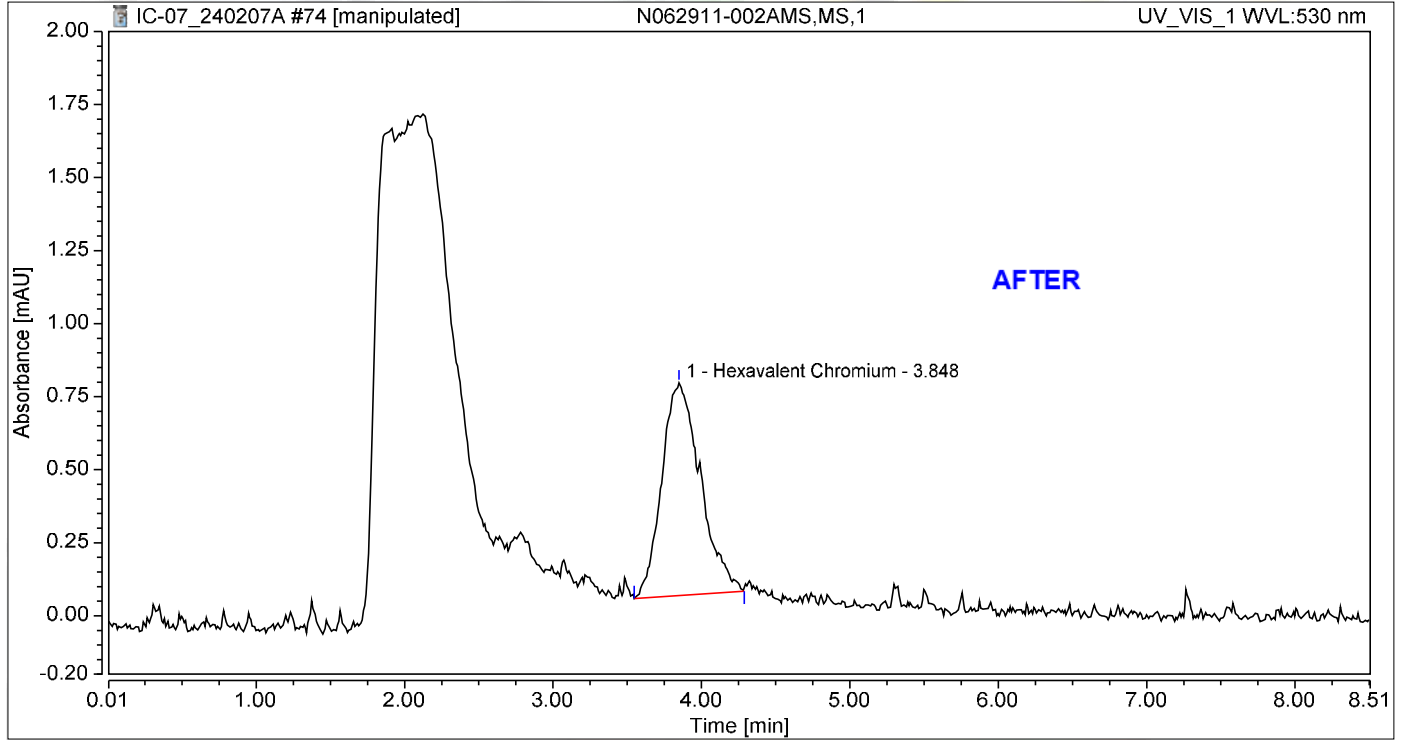
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.219	0.729	100.00	100.00	1.0198
Total:			0.219	0.729	100.00	100.00	

Reviewed by:

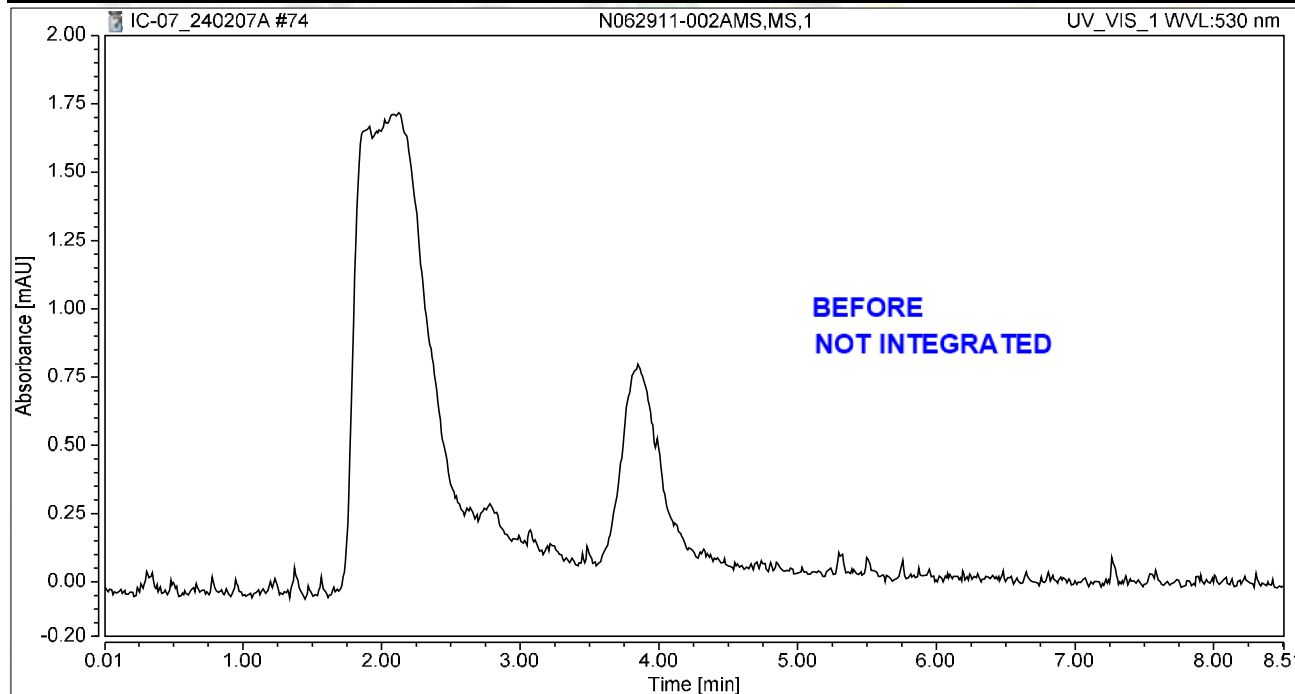
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:52	Sample Weight:	1.0000

Chromatogram



Integration Results

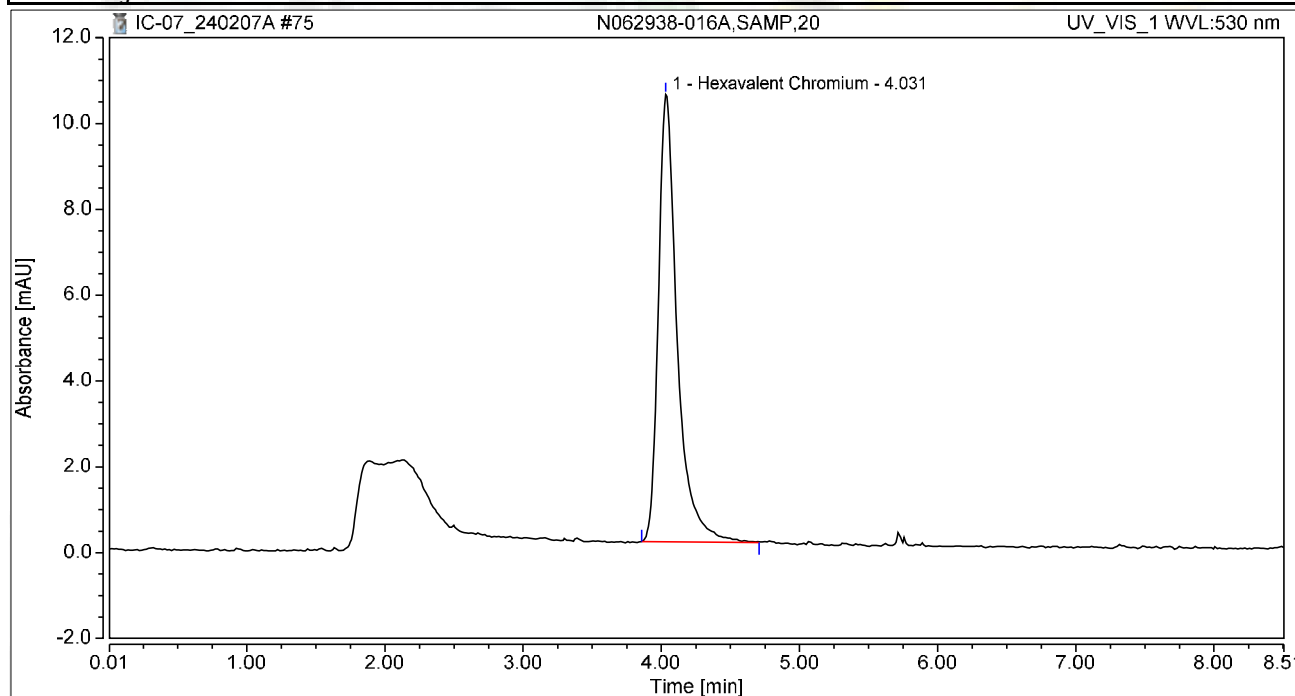
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016A,SAMP,20	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

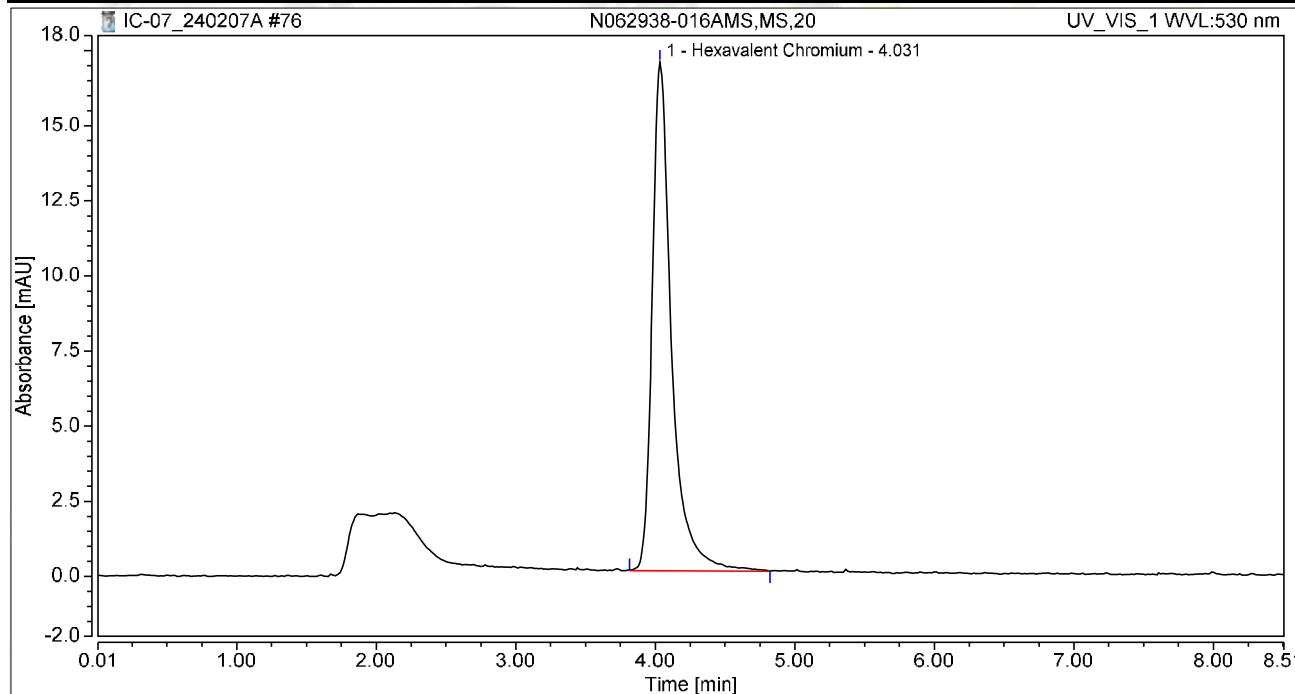
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.647	10.421	100.00	100.00	7.6570
Total:			1.647	10.421	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016AMS,MS,20	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:11	Sample Weight:	1.0000

Chromatogram



Integration Results

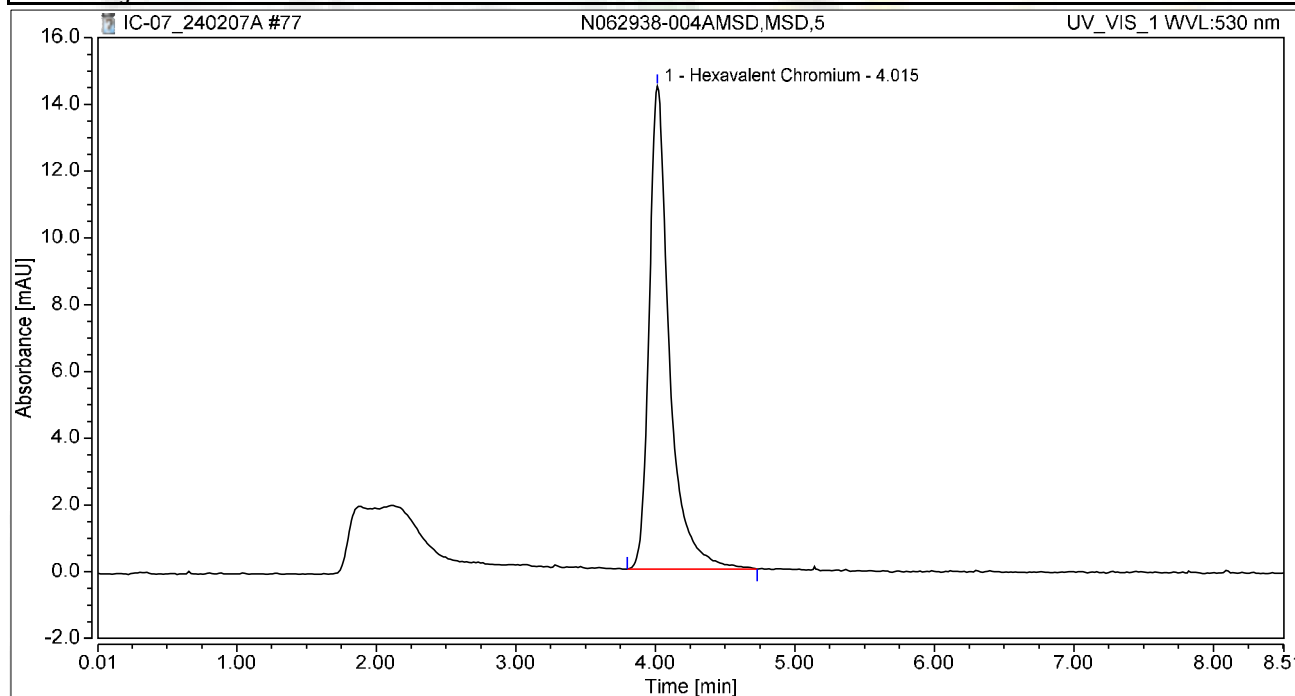
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.719	16.930	100.00	100.00	12.6386
Total:			2.719	16.930	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

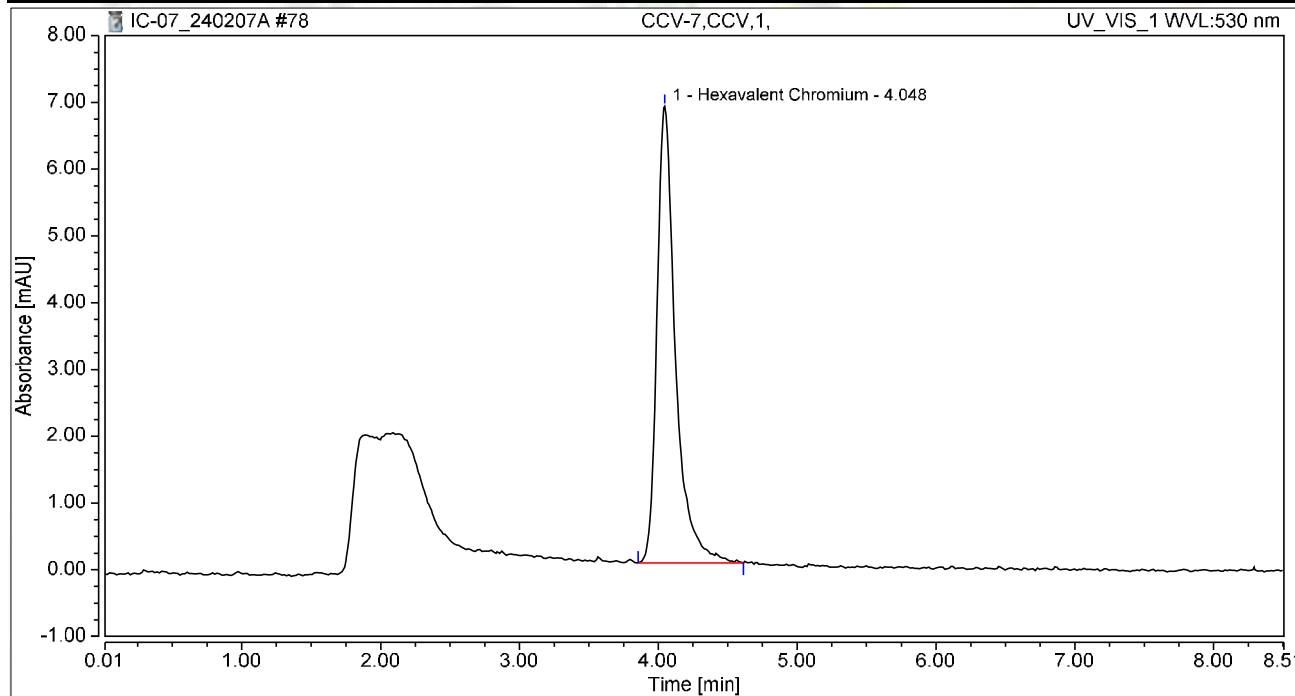
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.429	14.460	100.00	100.00	11.2904
Total:			2.429	14.460	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

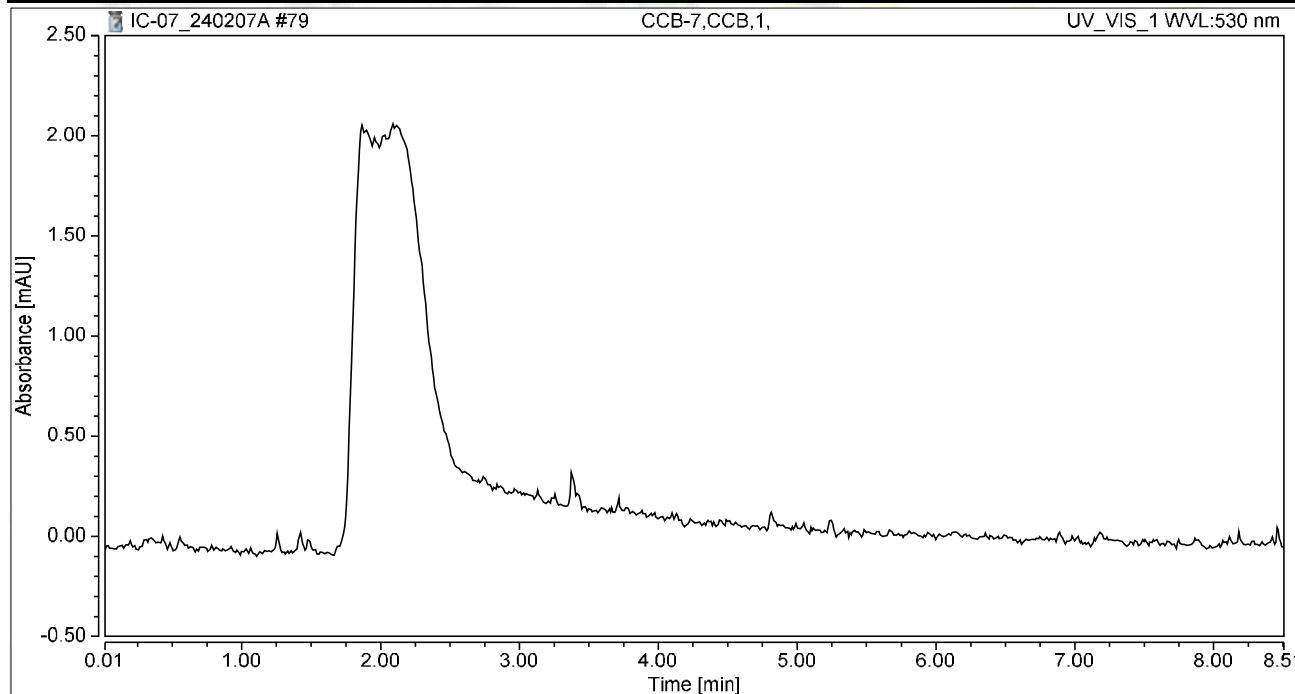
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.061	6.843	100.00	100.00	4.9318
Total:			1.061	6.843	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:22	Sample Weight:	1.0000

Chromatogram



Integration Results

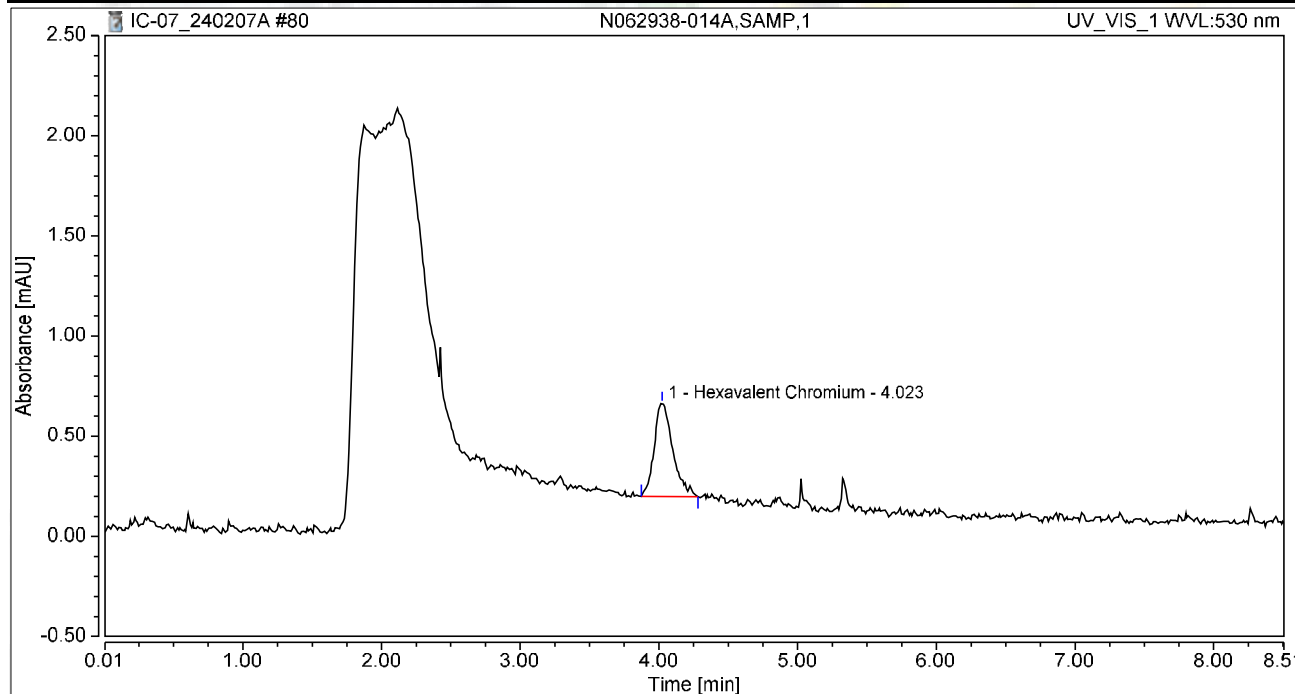
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:31	Sample Weight:	1.0000

Chromatogram



Integration Results

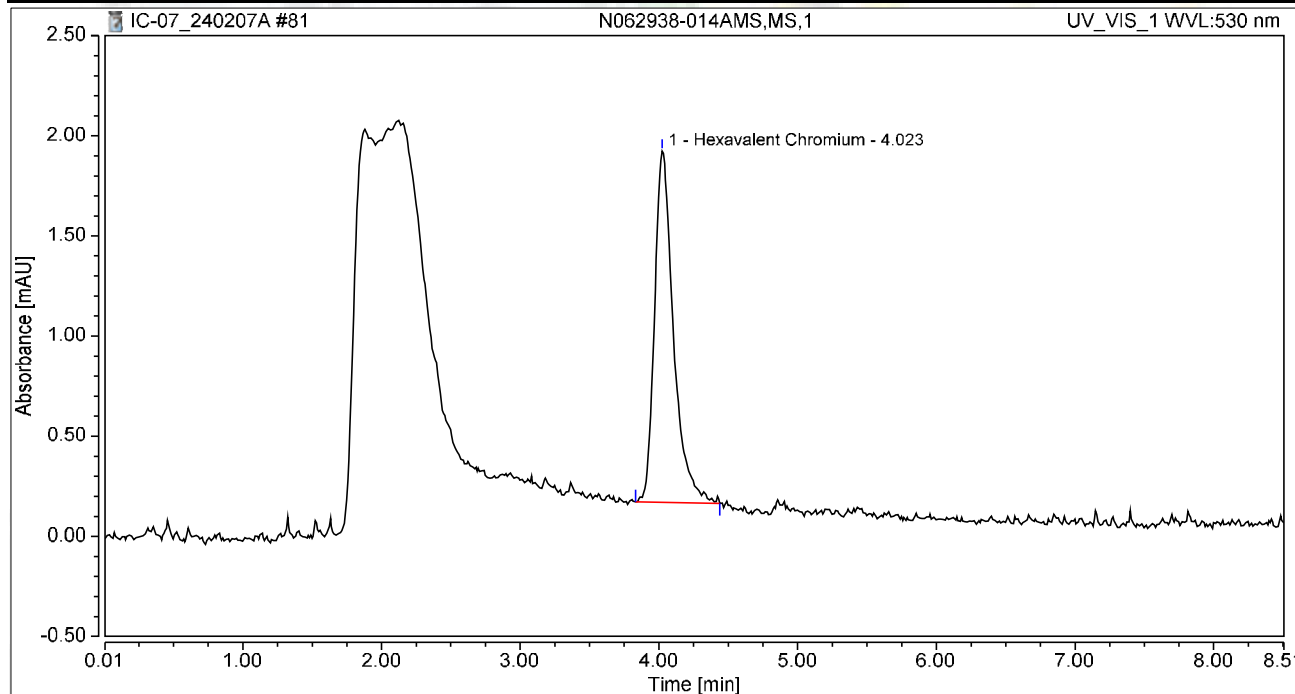
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.072	0.463	100.00	100.00	0.3353
Total:			0.072	0.463	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:41	Sample Weight:	1.0000

Chromatogram



Integration Results

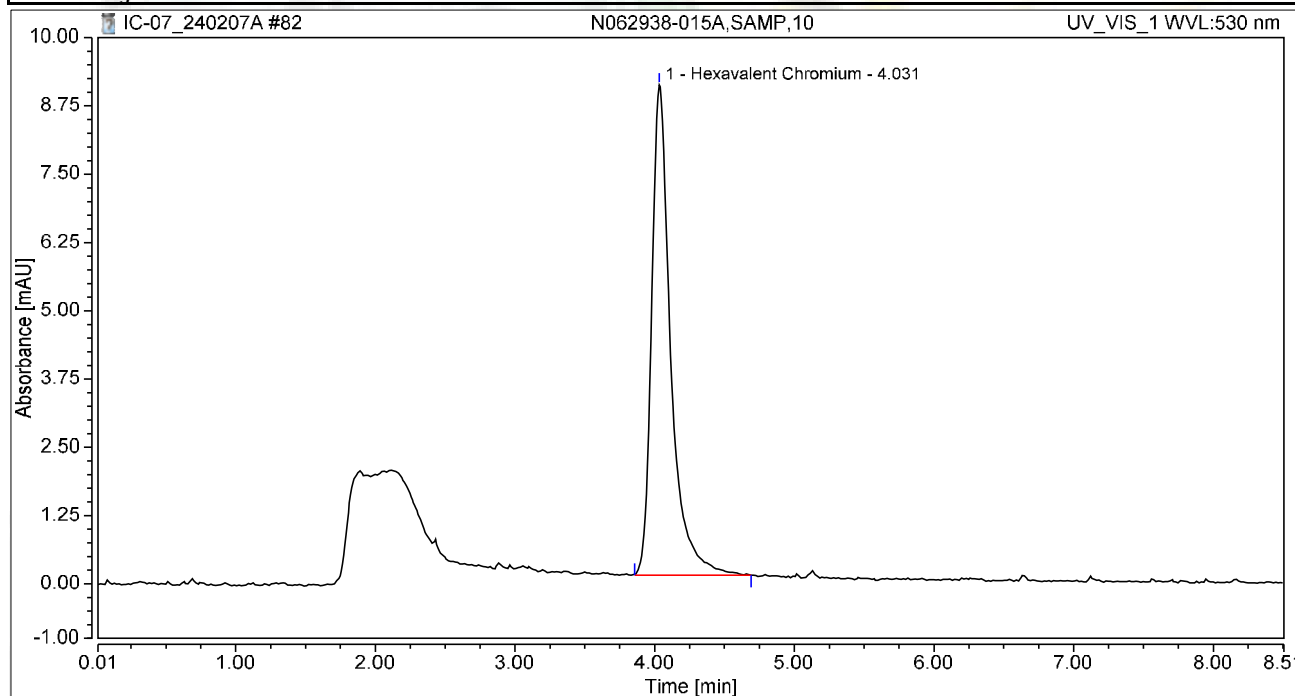
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.278	1.754	100.00	100.00	1.2912
Total:			0.278	1.754	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015A,SAMP,10	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:50	Sample Weight:	1.0000

Chromatogram



Integration Results

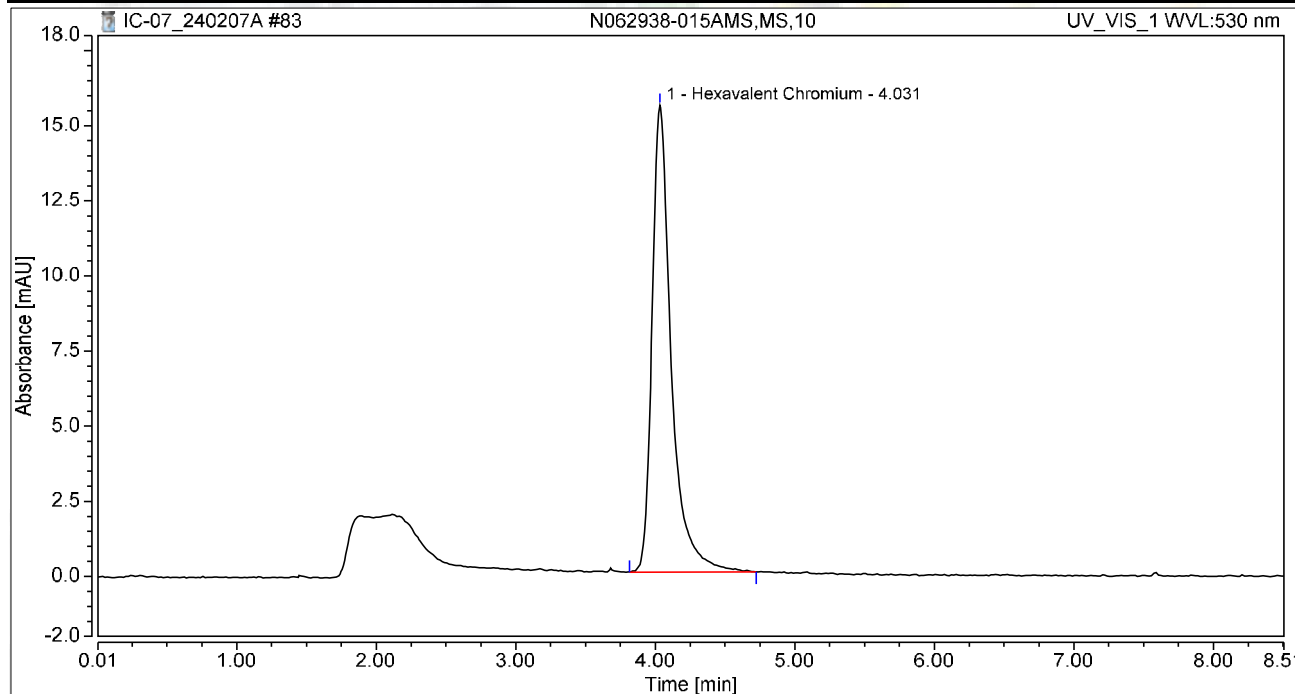
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.428	8.976	100.00	100.00	6.6406
Total:			1.428	8.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015AMS,MS,10	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:59	Sample Weight:	1.0000

Chromatogram



Integration Results

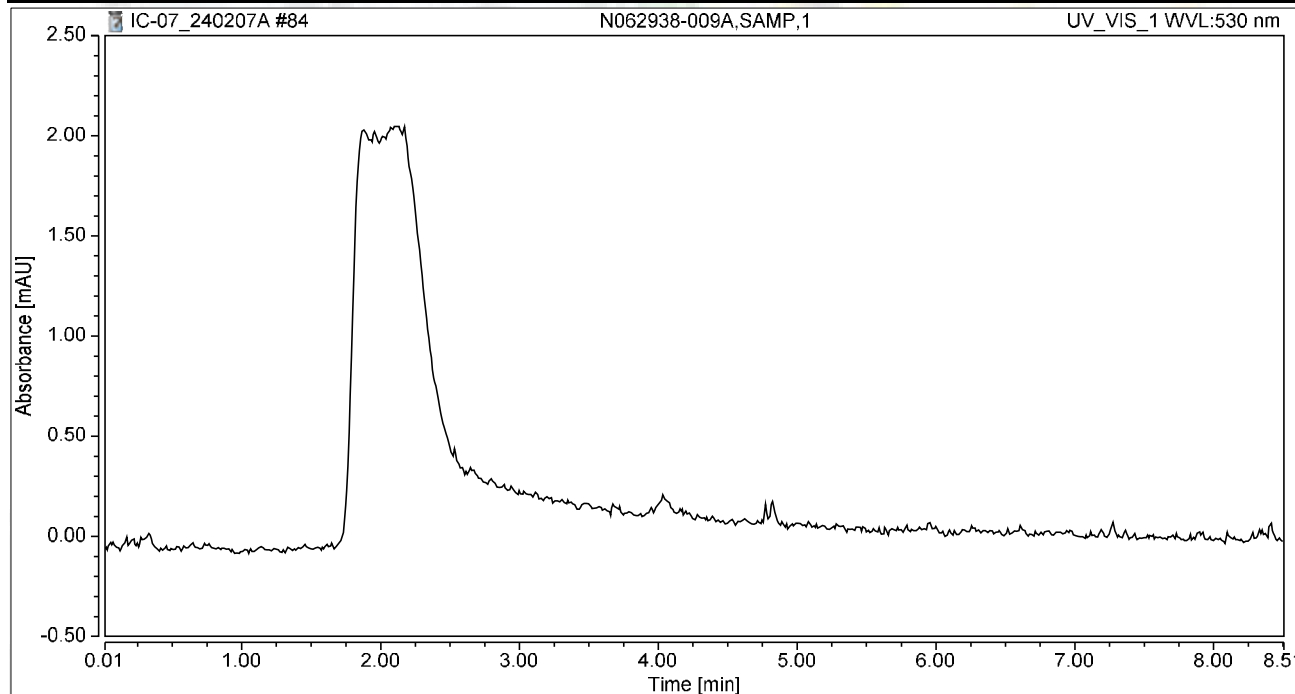
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.480	15.538	100.00	100.00	11.5274
Total:			2.480	15.538	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:09	Sample Weight:	1.0000

Chromatogram



Integration Results

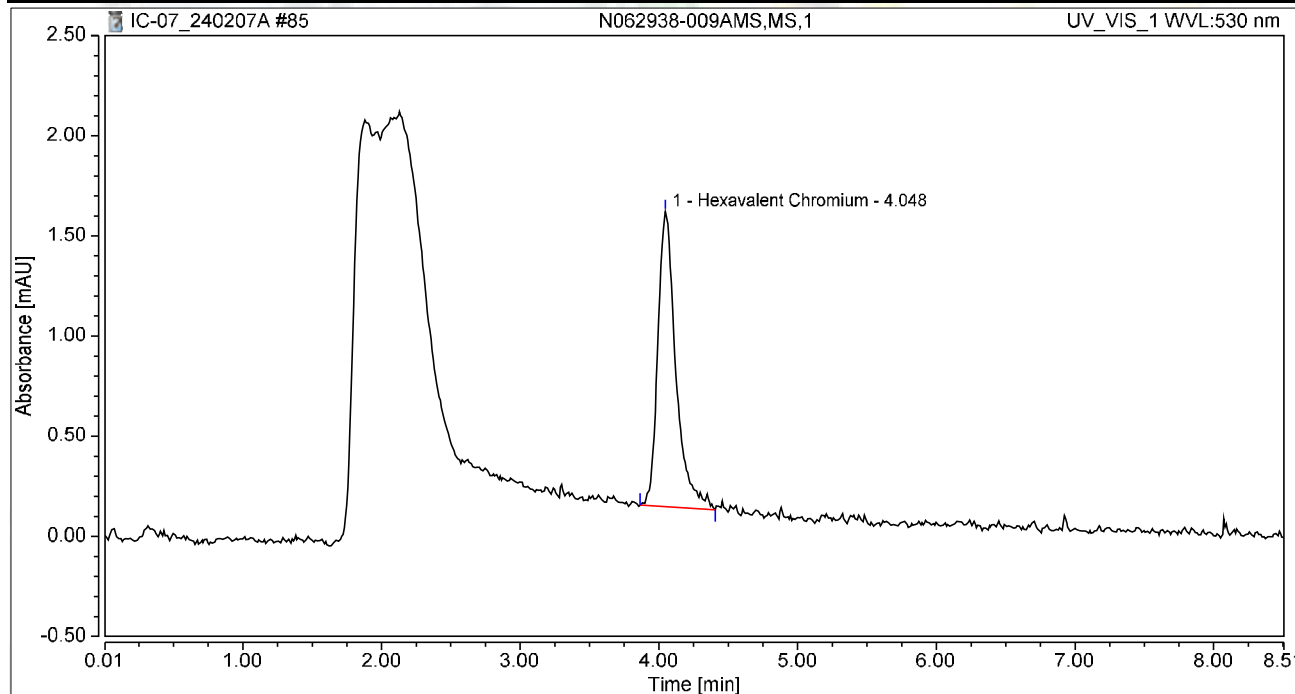
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:18	Sample Weight:	1.0000

Chromatogram



Integration Results

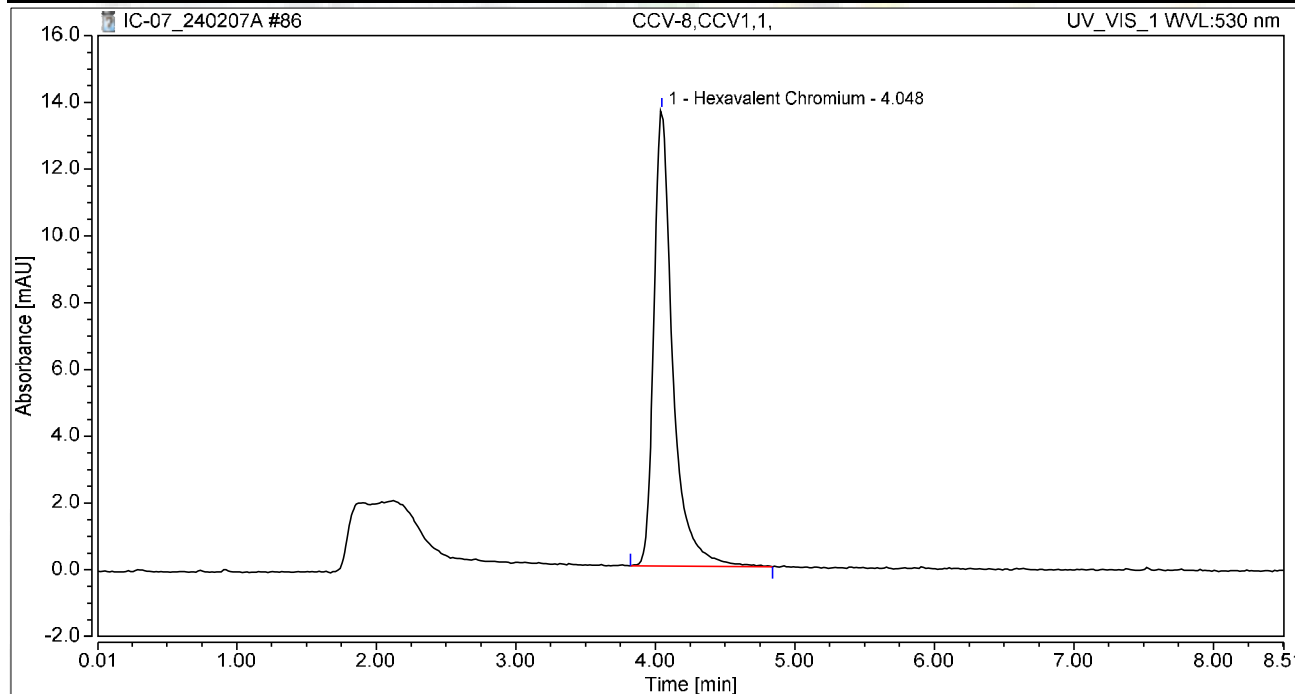
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.222	1.475	100.00	100.00	1.0305
Total:			0.222	1.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:28	Sample Weight:	1.0000

Chromatogram



Integration Results

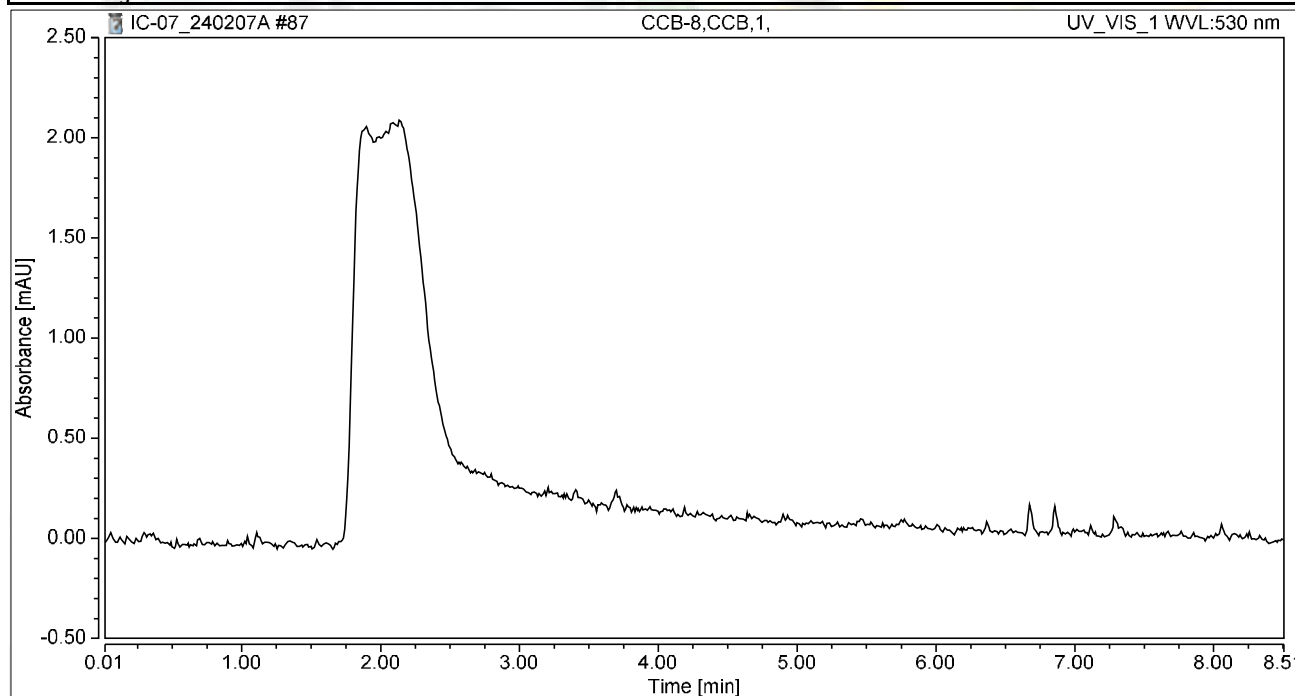
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.134	13.663	100.00	100.00	9.9208
Total:			2.134	13.663	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

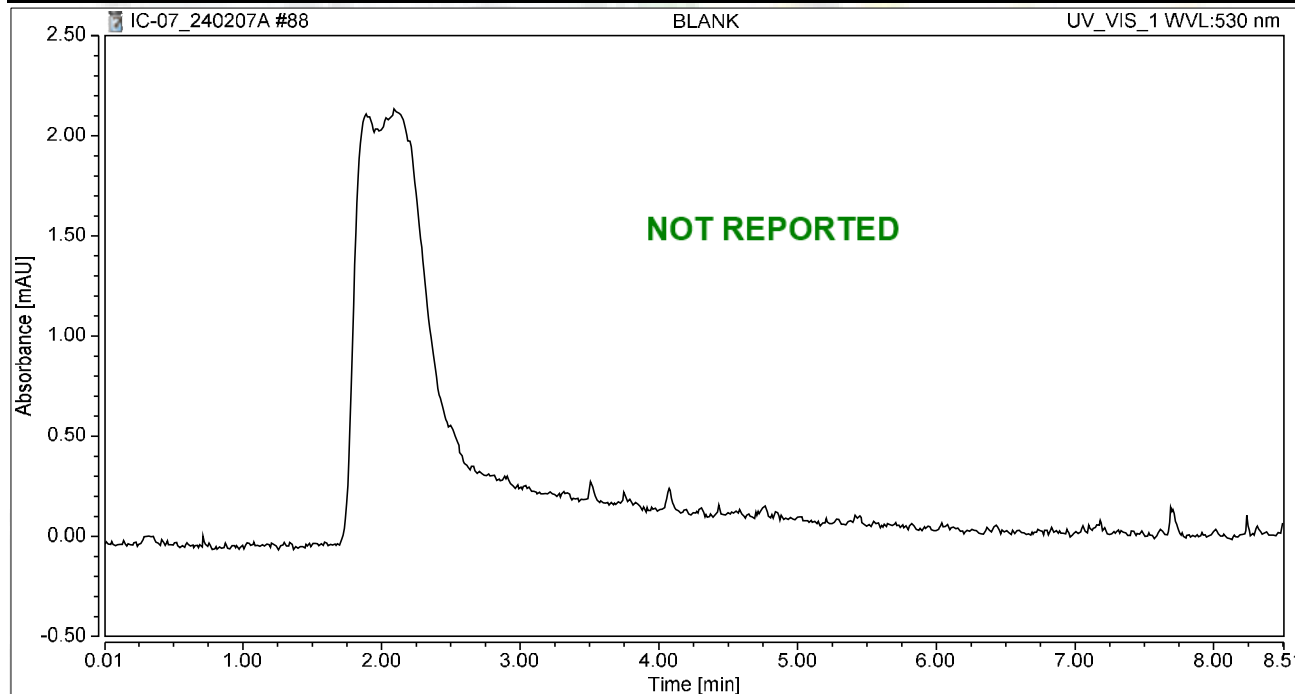
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:47	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240221A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/21/24 9:16 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/21/24 9:30 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/21/24 9:39 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/21/24 9:49 AM	Reported
13	MB-R182773	MBLK	1	Hexavalent Chromium	02/21/24 9:58 AM	Reported
14	LCS-R182773	LCS	1	Hexavalent Chromium	02/21/24 10:08 AM	Reported
15	N063213-008A	SAMP	10	Hexavalent Chromium	02/21/24 10:17 AM	Reported
16	N063211-001A	SAMP	1	Hexavalent Chromium	02/21/24 10:27 AM	Reported
17	N063211-002A	SAMP	1	Hexavalent Chromium	02/21/24 10:36 AM	Reported
18	N063211-003A	SAMP	1	Hexavalent Chromium	02/21/24 10:46 AM	Reported
19	N063211-001AMS	MS	1	Hexavalent Chromium	02/21/24 10:55 AM	Reported
20	N063211-002AMS	MS	1	Hexavalent Chromium	02/21/24 11:04 AM	Reported
21	N063211-003AMS	MS	1	Hexavalent Chromium	02/21/24 11:14 AM	Reported
22	N063213-008AMS	MS	10	Hexavalent Chromium	02/21/24 11:23 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	02/21/24 11:33 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/21/24 11:42 AM	Reported
25	N063213-008AMSD	MSD	10	Hexavalent Chromium	02/21/24 11:52 AM	Reported
26	N063213-001A	SAMP	1	Hexavalent Chromium	02/21/24 12:01 PM	Not Reported
27	N063213-002A	SAMP	1	Hexavalent Chromium	02/21/24 12:11 PM	Reported
28	N063213-005A	SAMP	1	Hexavalent Chromium	02/21/24 12:20 PM	Reported
29	N063213-003A	SAMP	5	Hexavalent Chromium	02/21/24 12:30 PM	Not Reported
30	N063213-004A	SAMP	100	Hexavalent Chromium	02/21/24 12:39 PM	Reported
31	N063213-007A	SAMP	200	Hexavalent Chromium	02/21/24 12:52 PM	Reported
32	N063211-001ADUP	DUP	1	Hexavalent Chromium	02/21/24 1:03 PM	Reported
33	N063213-001AMS	MS	1	Hexavalent Chromium	02/21/24 1:12 PM	Not Reported
34	N063213-002AMS	MS	1	Hexavalent Chromium	02/21/24 1:21 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/21/24 1:31 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/21/24 1:40 PM	Reported
37	N063213-005AMS	MS	1	Hexavalent Chromium	02/21/24 1:50 PM	Reported
38	N063213-004AMS	MS	100	Hexavalent Chromium	02/21/24 1:59 PM	Reported
39	N063213-007AMS	MS	200	Hexavalent Chromium	02/21/24 2:09 PM	Reported
40	N063213-006A	SAMP	1	Hexavalent Chromium	02/21/24 2:18 PM	Not Reported
41	N063213-006AMS	MS	1	Hexavalent Chromium	02/21/24 2:28 PM	Not Reported
42	N063213-006A	SAMP	5	Hexavalent Chromium	02/21/24 2:37 PM	Reported

Reviewed by:

JRB 292
2/27/2024

INJECTION LOG: 240221A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063213-006AMS	MS	5	Hexavalent Chromium	02/21/24 2:46 PM	Reported
44	N063213-009A	SAMP	1	Hexavalent Chromium	02/21/24 2:56 PM	Reported
45	N063213-009AMS	MS	1	Hexavalent Chromium	02/21/24 3:05 PM	Reported
46	N063213-003AMS	MS	5	Hexavalent Chromium	02/21/24 3:15 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/21/24 3:24 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/21/24 3:34 PM	Reported
49	N063214-007A	SAMP	1	Hexavalent Chromium	02/21/24 3:43 PM	Not Reported
50	N063214-007AMS	MS	1	Hexavalent Chromium	02/21/24 3:53 PM	Not Reported
51	N063214-001A	SAMP	1	Hexavalent Chromium	02/21/24 4:02 PM	Not Reported
52	N063214-001AMS	MS	1	Hexavalent Chromium	02/21/24 4:52 PM	Not Reported
53	N063214-003A	SAMP	1	Hexavalent Chromium	02/21/24 5:05 PM	Not Reported
54	N063214-003AMS	MS	1	Hexavalent Chromium	02/21/24 5:15 PM	Not Reported
55	N062911-004A	SAMP	5	Hexavalent Chromium	02/21/24 5:24 PM	Reported
N062911-004AMS 56	N063214-004AMS	MS	5	Hexavalent Chromium	02/21/24 5:34 PM	Reported
57	N063214-002A	SAMP	1	Hexavalent Chromium	02/21/24 5:43 PM	Reported
58	N063214-002AMS	MS	1	Hexavalent Chromium	02/21/24 5:52 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/21/24 6:02 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/21/24 6:11 PM	Reported
61	N063214-004A	SAMP	1	Hexavalent Chromium	02/21/24 6:21 PM	Reported
62	N063214-004AMS	MS	1	Hexavalent Chromium	02/21/24 6:30 PM	Reported
63	N063214-006A	SAMP	1	Hexavalent Chromium	02/21/24 6:40 PM	Reported
64	N063214-006AMS	MS	1	Hexavalent Chromium	02/21/24 6:49 PM	Reported
65	N063214-008A	SAMP	1	Hexavalent Chromium	02/21/24 6:59 PM	Reported
66	N063214-008AMS	MS	1	Hexavalent Chromium	02/21/24 7:08 PM	Reported
67	N063214-001A	SAMP	5	Hexavalent Chromium	02/21/24 7:18 PM	Reported
68	N063214-001AMS	MS	5	Hexavalent Chromium	02/21/24 7:27 PM	Reported
69	N063214-003A	SAMP	5	Hexavalent Chromium	02/21/24 7:37 PM	Reported
70	N063214-003AMS	MS	5	Hexavalent Chromium	02/21/24 7:46 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/21/24 7:55 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/21/24 8:05 PM	Reported
73	N063214-005A	SAMP	5	Hexavalent Chromium	02/21/24 8:14 PM	Reported
74	N063214-005AMS	MS	5	Hexavalent Chromium	02/21/24 8:24 PM	Reported
75	N063213-001AMS	MS	5	Hexavalent Chromium	02/21/24 8:33 PM	Reported
76	N063213-001A	SAMP	5	Hexavalent Chromium	02/21/24 8:43 PM	Reported
77	N063213-003AMS	MS	100	Hexavalent Chromium	02/21/24 8:52 PM	Reported
78	N063213-003A	SAMP	100	Hexavalent Chromium	02/21/24 9:02 PM	Reported
79	N063213-002AMS	MS	1	Hexavalent Chromium	02/21/24 9:11 PM	Reported
80	N063214-005A	SAMP	1	Hexavalent Chromium	02/21/24 9:21 PM	Not Reported
81	N063214-005AMS	MS	1	Hexavalent Chromium	02/21/24 9:30 PM	Not Reported
82	CCV-7	CCV	1	Hexavalent Chromium	02/21/24 9:39 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	02/21/24 9:49 PM	Reported
84	BLANK	BLANK	1	Hexavalent Chromium	02/21/24 9:58 PM	Not Reported

JRB 2/27/2024
for RBA


Injection Log Summary

Sequence Details

Name:	IC-07_240221A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	22/Feb/24 12:29:45
No. of Injections:	87	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/21/2024 09:16	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/21/2024 09:30	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/21/2024 09:39	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/21/2024 09:49	Finished	CCB R240129C
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/21/2024 09:58	Finished	MS R240129C
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/21/2024 10:08	Finished	LCS @5ppb, IWST-231228B
15	N063213-008A,SAMP	7	1000	Unknown		02/21/2024 10:17	Finished	SAMP,1>10 mL
16	N063211-001A,SAMP	8	1000	Unknown		02/21/2024 10:27	Finished	SAMP,10 mL
17	N063211-002A,SAMP	9	1000	Unknown		02/21/2024 10:36	Finished	SAMP,10 mL
18	N063211-003A,SAMP	10	1000	Unknown		02/21/2024 10:46	Finished	SAMP,10 mL
19	N063211-001AMS,MS	11	1000	Unknown		02/21/2024 10:55	Finished	MS (1ppb), IWST-231228B,10r
20	N063211-002AMS,MS	12	1000	Unknown		02/21/2024 11:04	Finished	MS (1ppb), IWST-231228B,10r
21	N063211-003AMS,MS	13	1000	Unknown		02/21/2024 11:14	Finished	MS (1ppb), IWST-231228B,10r
22	N063213-008AMS,MS	14	1000	Unknown		02/21/2024 11:23	Finished	MS (5ppb), IWST-231228B,1>
23	CCV-2,CCV1,1,	15	1000	Unknown		02/21/2024 11:33	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	16	1000	Unknown		02/21/2024 11:42	Finished	CCB R240129C
25	N063213-008AMSD,MS	17	1000	Unknown		02/21/2024 11:52	Finished	MSD (5ppb), IWST-231228B,1
26	N063213-001A,SAMP	18	1000	Unknown		02/21/2024 12:01	Finished	SAMP,10 mL
27	N063213-002A,SAMP	19	1000	Unknown		02/21/2024 12:11	Finished	SAMP,10 mL
28	N063213-005A,SAMP	20	1000	Unknown		02/21/2024 12:20	Finished	SAMP,10 mL
29	N063213-003A,SAMP	21	1000	Unknown		02/21/2024 12:30	Finished	SAMP,2>10 mL
30	N063213-004A,SAMP	22	1000	Unknown		02/21/2024 12:39	Finished	SAMP,0.1>10 mL
31	N063213-007A,SAMP	1	1000	Unknown		02/21/2024 12:52	Finished	SAMP,0.05>10 mL
32	N063211-001ADUP,C	2	1000	Unknown		02/21/2024 13:03	Finished	DUP,10 mL
33	N063213-001AMS,MS	3	1000	Unknown		02/21/2024 13:12	Finished	MS (5ppb), IWST-231228B,10r
34	N063213-002AMS,MS	4	1000	Unknown		02/21/2024 13:21	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	5	1000	Unknown		02/21/2024 13:31	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	6	1000	Unknown		02/21/2024 13:40	Finished	CCB R240129C
37	N063213-005AMS,MS	7	1000	Unknown		02/21/2024 13:50	Finished	MS (1ppb), IWST-231228B,10r
38	N063213-004AMS,MS	8	1000	Unknown		02/21/2024 13:59	Finished	MS (5ppb), IWST-231228B,0.1
39	N063213-007AMS,MS	9	1000	Unknown		02/21/2024 14:09	Finished	MS (5ppb), IWST-231228B,0.0
40	N063213-006A,SAMP	10	1000	Unknown		02/21/2024 14:18	Finished	SAMP,10 mL
41	N063213-006AMS,MS	11	1000	Unknown		02/21/2024 14:28	Finished	MS (1ppb), IWST-231228B,10r
42	N063213-006A,SAMP	12	1000	Unknown		02/21/2024 14:37	Finished	SAMP,2>10 mL
43	N063213-006AMS,MS	13	1000	Unknown		02/21/2024 14:46	Finished	MS (1ppb), IWST-231228B,2>
44	N063213-009A,SAMP	14	1000	Unknown		02/21/2024 14:56	Finished	SAMP,10 mL
45	N063213-009AMS,MS	15	1000	Unknown		02/21/2024 15:05	Finished	MS (1ppb), IWST-231228B,10r
46	N063213-003AMS,MS	16	1000	Unknown		02/21/2024 15:15	Finished	MS (5ppb), IWST-231228B,2>
47	CCV-4,CCV1,1,	17	1000	Unknown		02/21/2024 15:24	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	18	1000	Unknown		02/21/2024 15:34	Finished	CCB R240129C
49	N063214-007A,SAMP	19	1000	Unknown		02/21/2024 15:43	Finished	SAMP,10 mL
50	N063214-007AMS,MS	20	1000	Unknown		02/21/2024 15:53	Finished	MS (1ppb), IWST-231228B,10r
51	N063214-001A,SAMP	21	1000	Unknown		02/21/2024 16:02	Finished	SAMP,10 mL
52	N063214-001AMS,MS	1	1000	Unknown		02/21/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
53	N063214-003A,SAMP	2	1000	Unknown		02/21/2024 17:05	Finished	SAMP,10 mL
54	N063214-003AMS,MS	3	1000	Unknown		02/21/2024 17:15	Finished	MS (1ppb), IWST-231228B,10r
55	N062911-004A,SAMP	4	1000	Unknown		02/21/2024 17:24	Finished	SAMP,2>10 mL
56	N063214-004AMS,MS	5	1000	Unknown		02/21/2024 17:34	Finished	MS (1ppb), IWST-231228B,2>
57	N063214-002A,SAMP	6	1000	Unknown		02/21/2024 17:43	Finished	SAMP,10 mL
58	N063214-002AMS,MS	7	1000	Unknown		02/21/2024 17:52	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	8	1000	Unknown		02/21/2024 18:02	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	9	1000	Unknown		02/21/2024 18:11	Finished	CCB R240129C

 2/27/2024
 for RBA

61	N063214-004A,SAMP	10	1000	Unknown	02/21/2024 18:21	Finished	SAMP,10 mL
62	N063214-004AMS,MS	11	1000	Unknown	02/21/2024 18:30	Finished	MS (1ppb), IWST-231228B,10r
63	N063214-006A,SAMP	12	1000	Unknown	02/21/2024 18:40	Finished	SAMP,10 mL
64	N063214-006AMS,MS	13	1000	Unknown	02/21/2024 18:49	Finished	MS (1ppb), IWST-231228B,10r
65	N063214-008A,SAMP	14	1000	Unknown	02/21/2024 18:59	Finished	SAMP,10 mL
66	N063214-008AMS,MS	15	1000	Unknown	02/21/2024 19:08	Finished	MS (1ppb), IWST-231228B,10r
67	N063214-001A,SAMP	16	1000	Unknown	02/21/2024 19:18	Finished	SAMP,2>10 mL
68	N063214-001AMS,MS	17	1000	Unknown	02/21/2024 19:27	Finished	MS (1ppb), IWST-231228B,2>
69	N063214-003A,SAMP	18	1000	Unknown	02/21/2024 19:37	Finished	SAMP,2>10 mL
70	N063214-003AMS,MS	19	1000	Unknown	02/21/2024 19:46	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	20	1000	Unknown	02/21/2024 19:55	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	21	1000	Unknown	02/21/2024 20:05	Finished	CCB R240129C
73	N063214-005A,SAMP	22	1000	Unknown	02/21/2024 20:14	Finished	SAMP,2>10 mL
74	N063214-005AMS,MS	23	1000	Unknown	02/21/2024 20:24	Finished	MS (1ppb), IWST-231228B,2>
75	N063213-001AMS,MS	24	1000	Unknown	02/21/2024 20:33	Finished	MS (5ppb), IWST-231228B,2>
76	N063213-001A,SAMP	25	1000	Unknown	02/21/2024 20:43	Finished	SAMP,2>10 mL
77	N063213-003AMS,MS	26	1000	Unknown	02/21/2024 20:52	Finished	MS (5ppb), IWST-231228B,0.1
78	N063213-003A,SAMP	27	1000	Unknown	02/21/2024 21:02	Finished	SAMP,0.1>10 mL
79	N063213-002AMS,MS	28	1000	Unknown	02/21/2024 21:11	Finished	MS (5ppb), IWST-231228B,10r
80	N063214-005A,SAMP	29	1000	Unknown	02/21/2024 21:21	Finished	SAMP,10 mL
81	N063214-005AMS,MS	30	1000	Unknown	02/21/2024 21:30	Finished	MS (1ppb), IWST-231228B,10r
82	CCV-7,CCV,1,	31	1000	Unknown	02/21/2024 21:39	Finished	CCV @5ppb, IWST-231228A
83	CCB-7,CCB,1,	32	1000	Unknown	02/21/2024 21:49	Finished	CCB R240129C
84	BLANK	33	1000	Unknown	02/21/2024 21:58	Finished	BLANK
85	SHUTDOWN R240221A	34	1000	Unknown	02/21/2024 22:08	Finished	
86	Eluent: R240220A	35	1000	Unknown	n.a.	Finished	
87	PCR: R240220B	36	1000	Unknown	n.a.	Finished	

R240221B



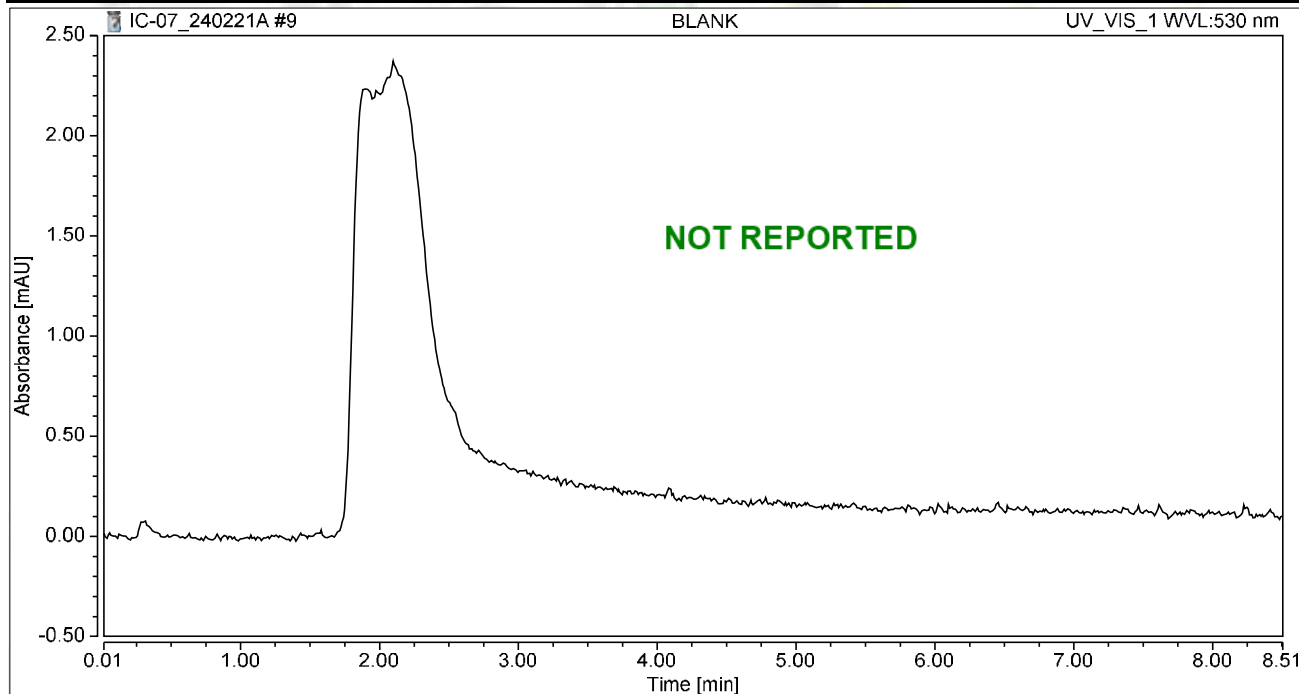
M Rocha 2/29/2024
for RBA

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 09:16	Sample Weight:	1.0000

Chromatogram



Integration Results

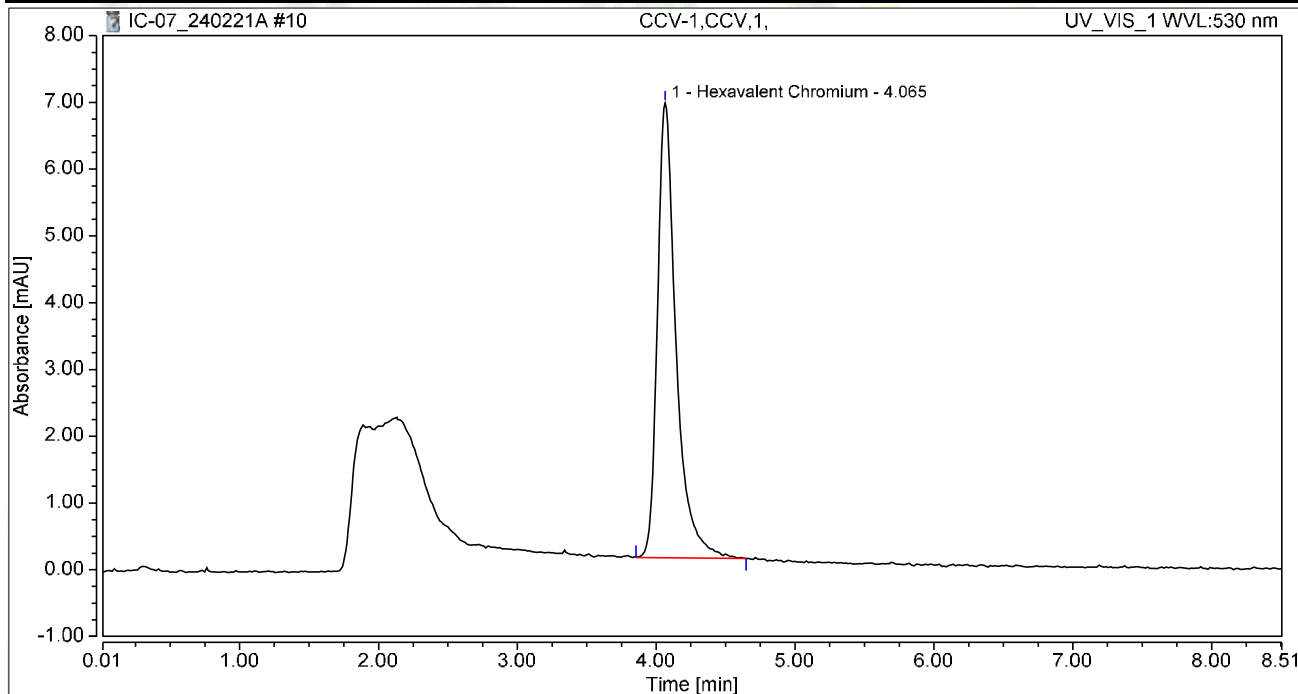
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.065	1.063	6.813	100.00	100.00	4.9416
Total:			1.063	6.813	100.00	100.00	

Reviewed by:

jrb

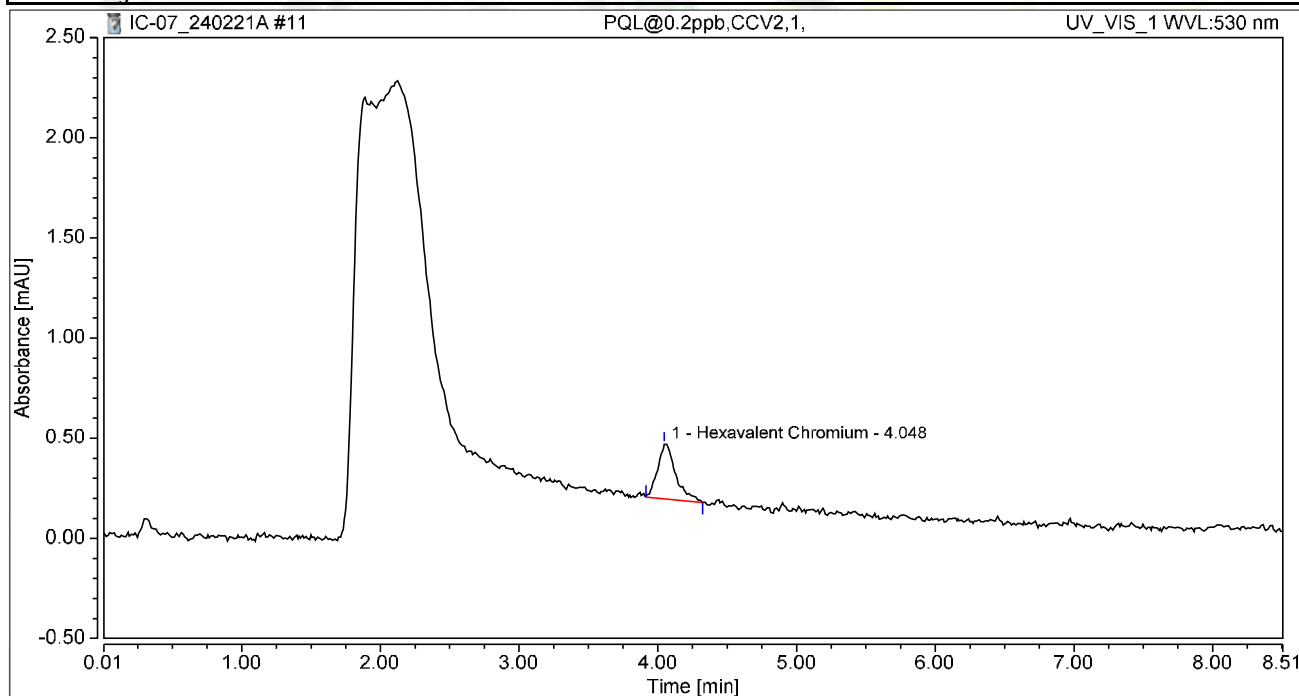
2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 09:39	Sample Weight:	1.0000

Chromatogram



Integration Results

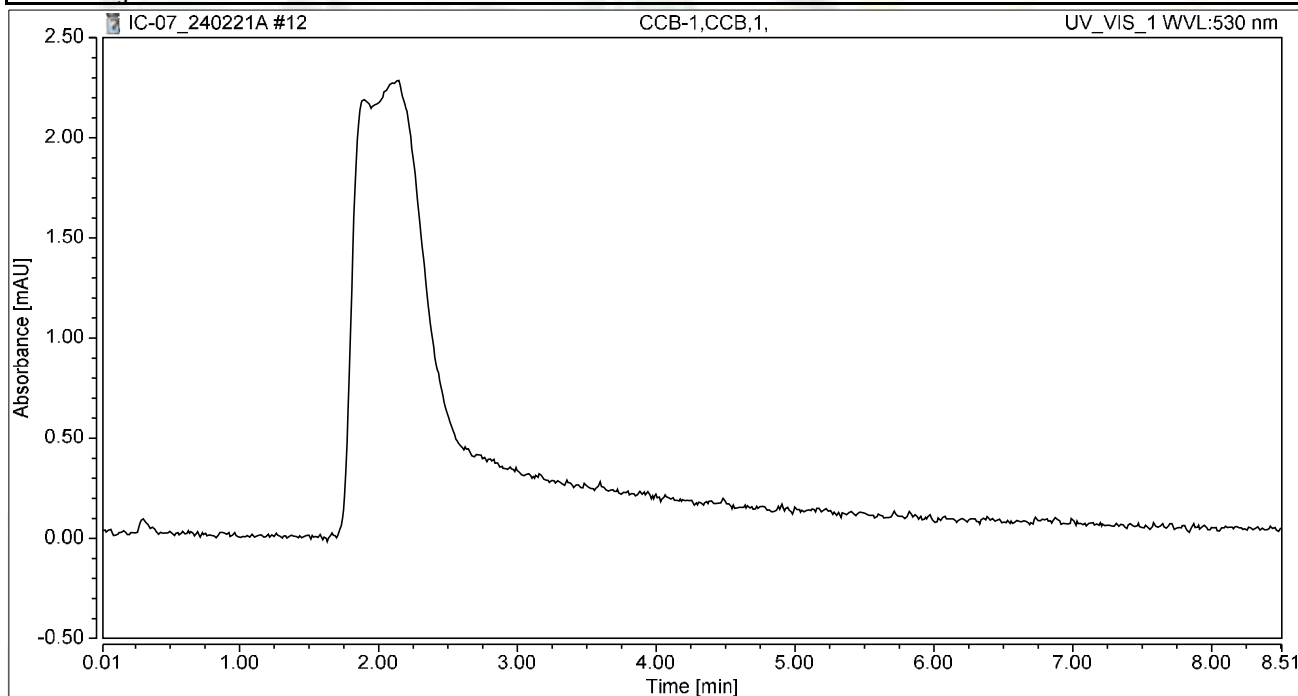
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.041	0.273	100.00	100.00	0.1929
Total:			0.041	0.273	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 09:49	Sample Weight:	1.0000

Chromatogram



Integration Results

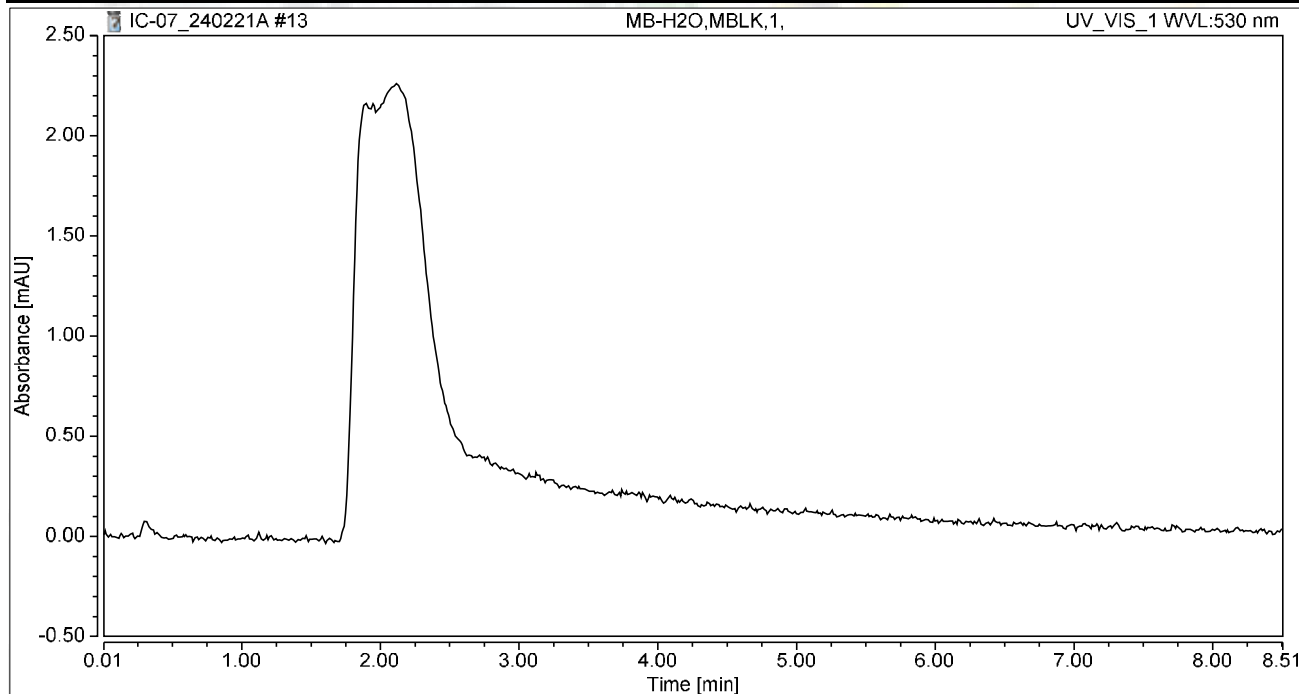
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 09:58	Sample Weight:	1.0000

Chromatogram



Integration Results

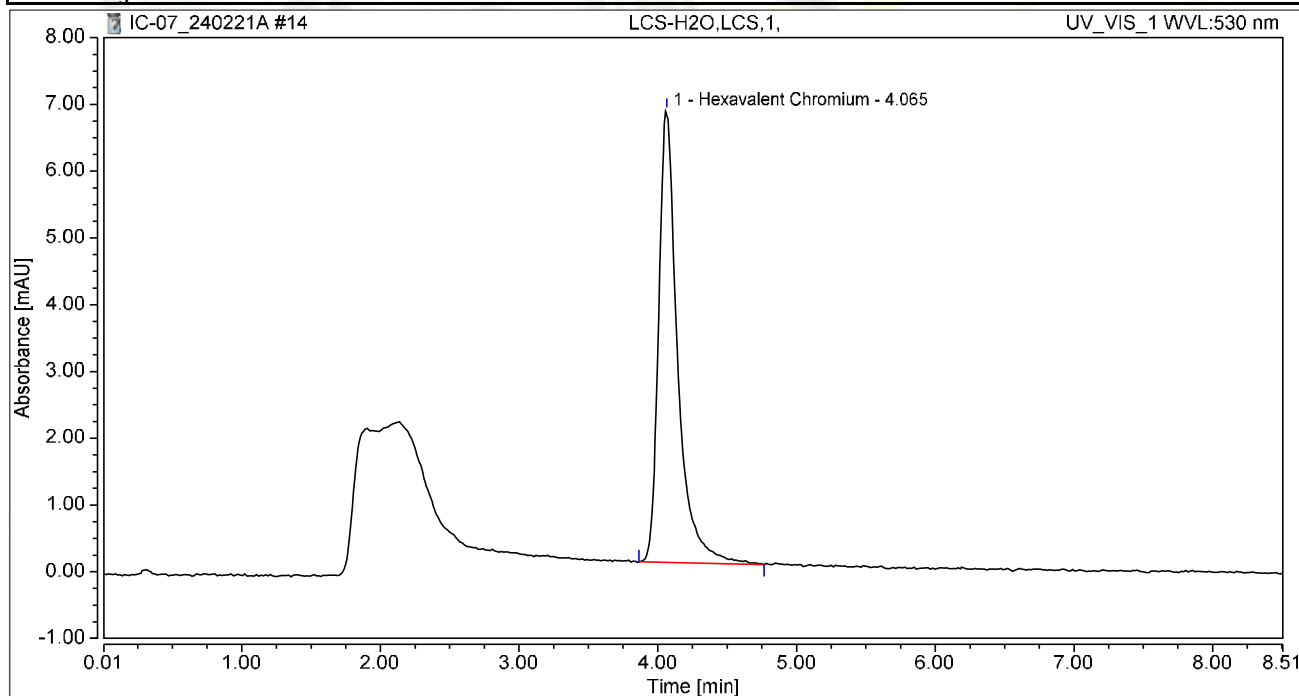
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

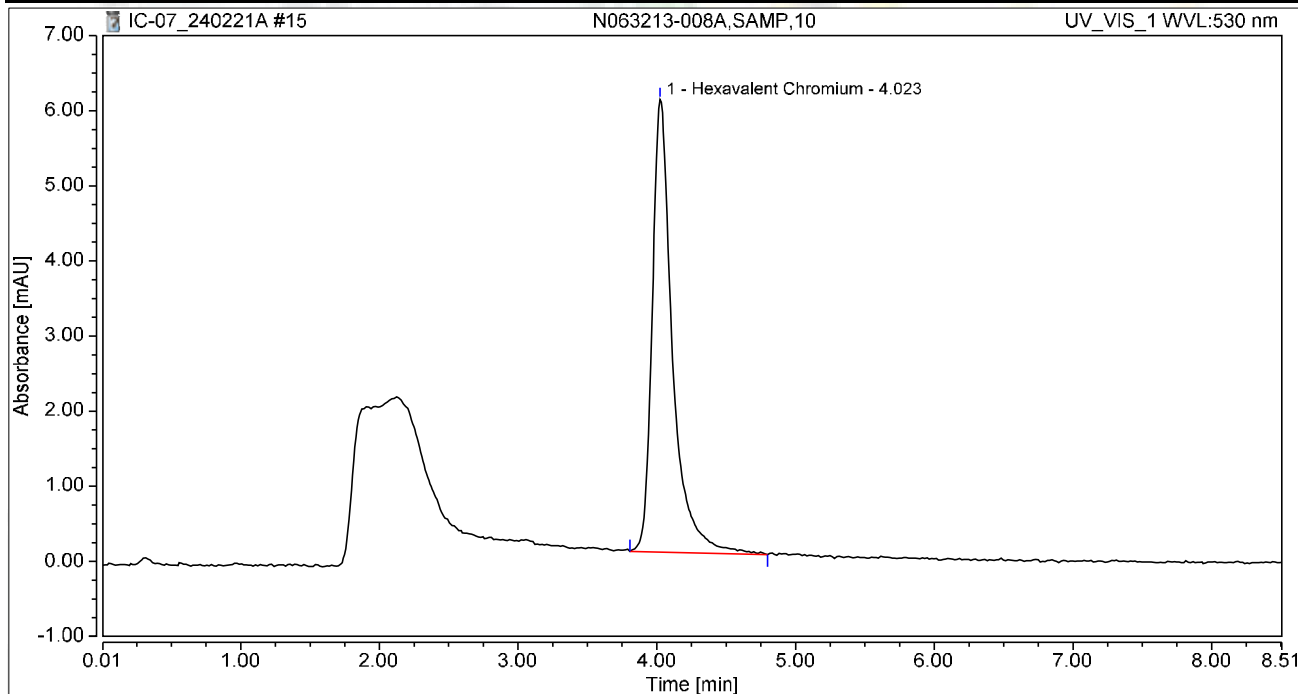
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.065	1.075	6.771	100.00	100.00	4.9996
Total:			1.075	6.771	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-008A,SAMP,10	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:17	Sample Weight:	1.0000

Chromatogram



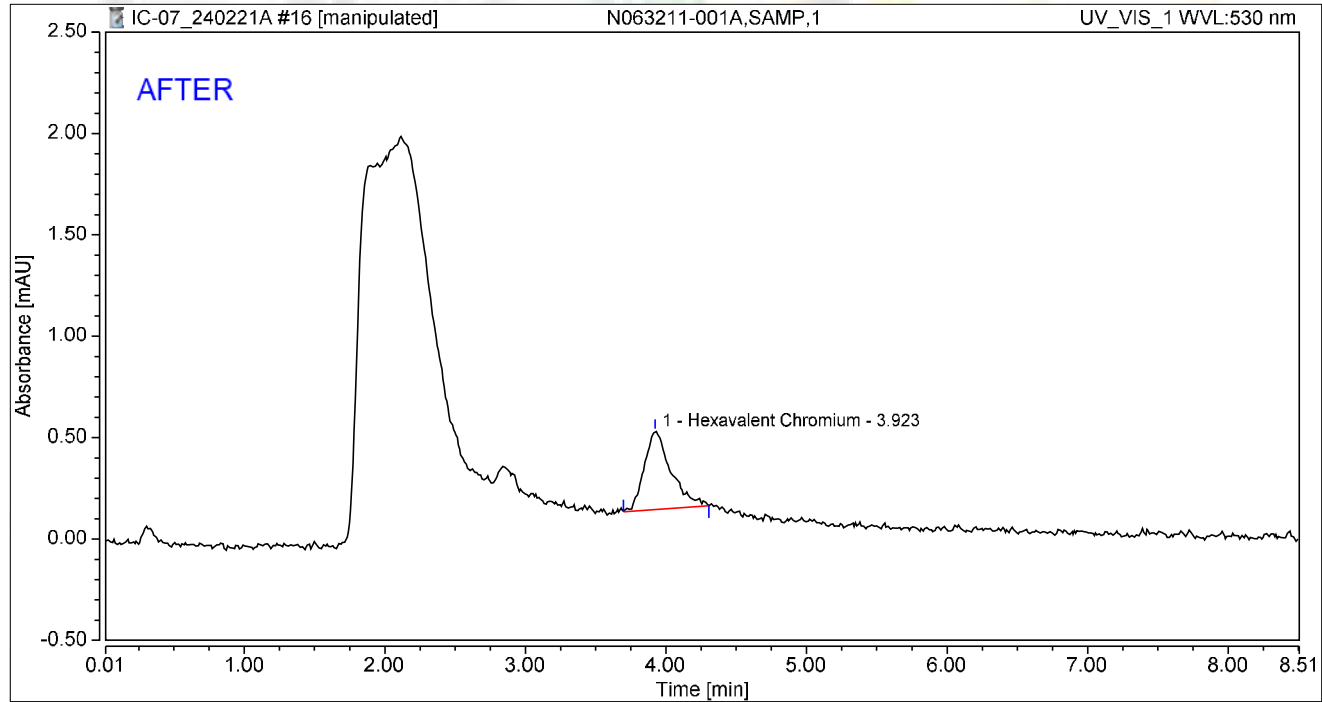
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.020	6.022	100.00	100.00	4.7409
Total:			1.020	6.022	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063211-001A,SAMP,1	Run Time (min): 8.49
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 10:27	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.086	0.385	100.00	100.00	0.3980
Total:			0.086	0.385	100.00	100.00	

Reviewed by:

jrb

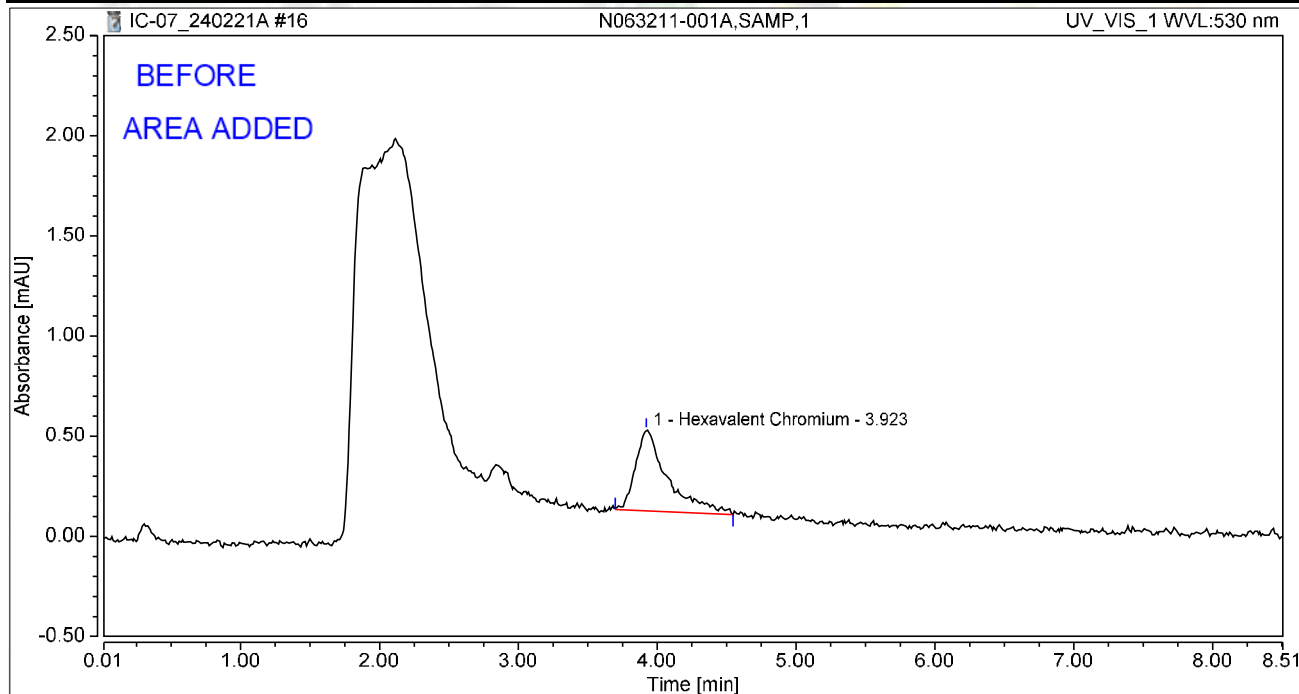
2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063211-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:27	Sample Weight:	1.0000

Chromatogram



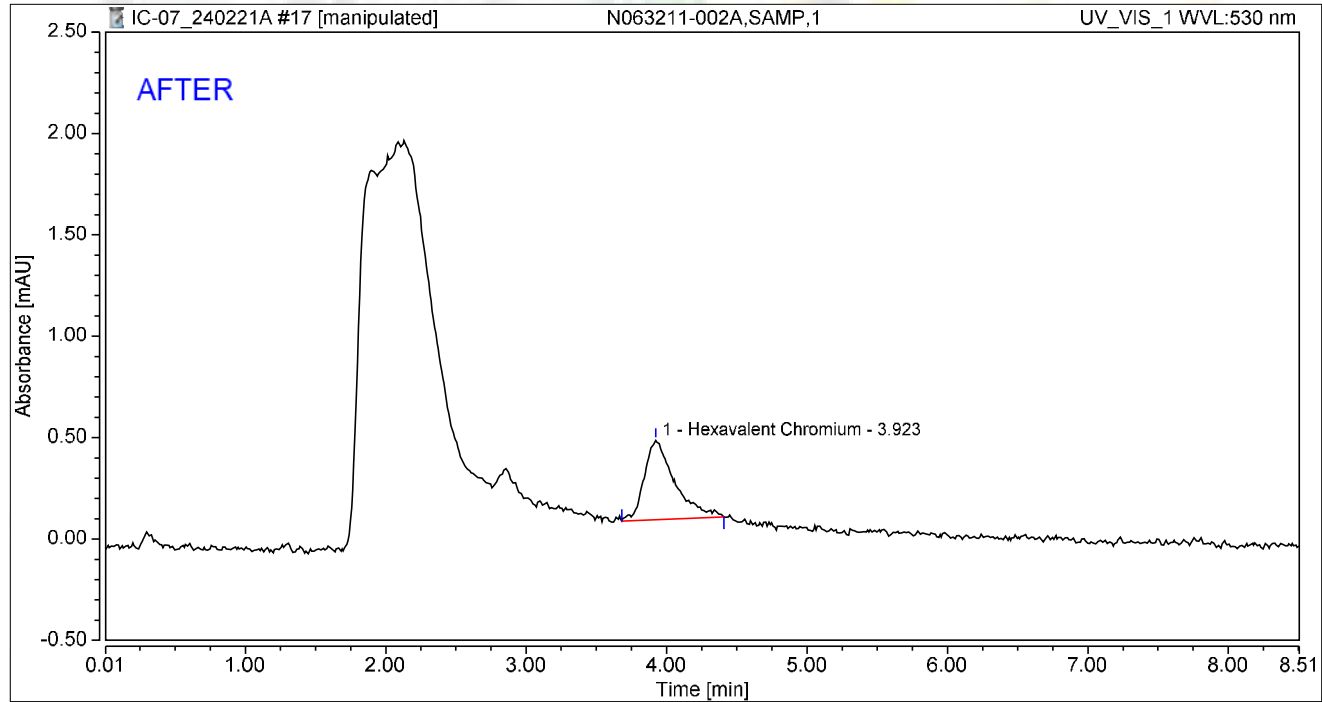
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.108	0.403	100.00	100.00	0.5039
Total:			0.108	0.403	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063211-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 10:36	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.098	0.392	100.00	100.00	0.4578
Total:			0.098	0.392	100.00	100.00	

Reviewed by:

jrb

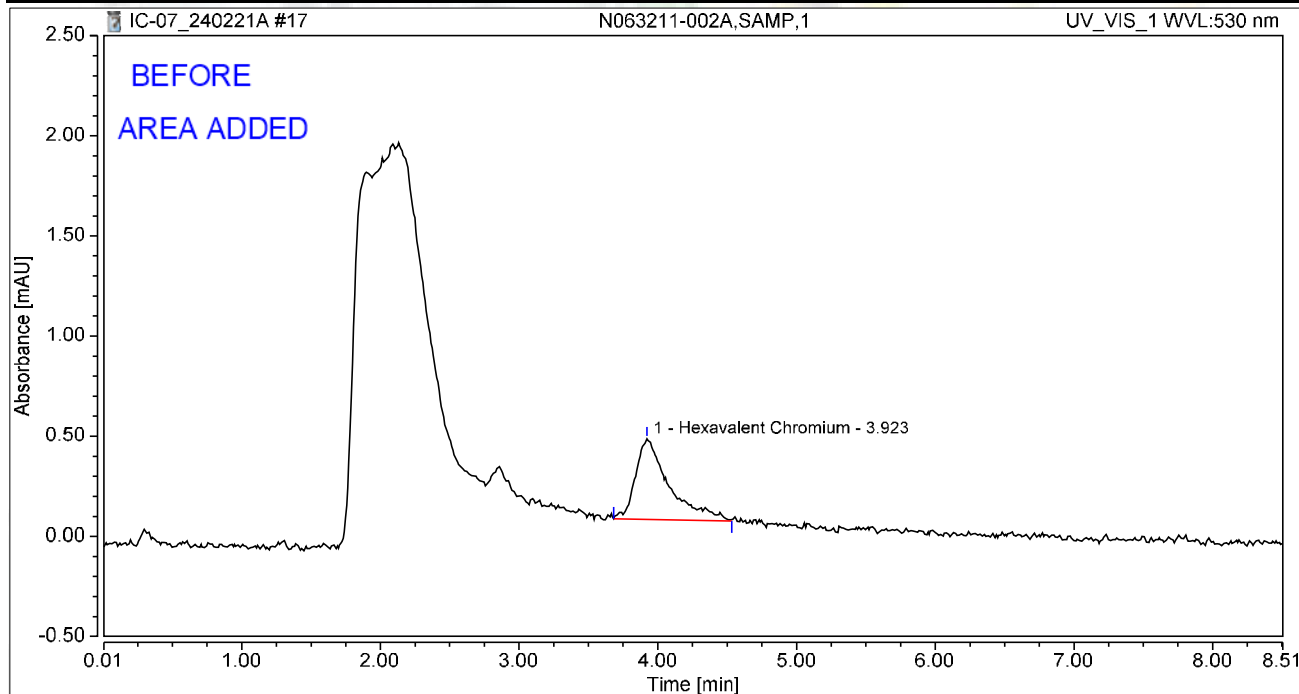
2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063211-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:36	Sample Weight:	1.0000

Chromatogram



Integration Results

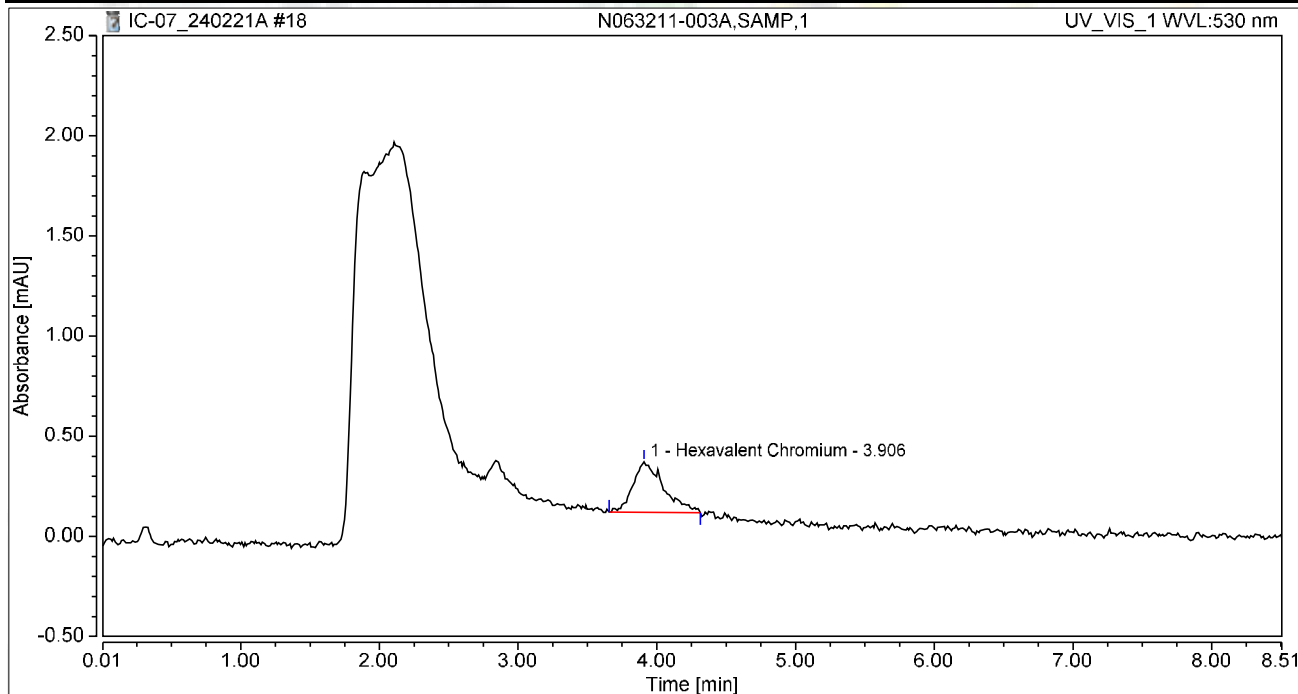
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.112	0.402	100.00	100.00	0.5211
Total:			0.112	0.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063211-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

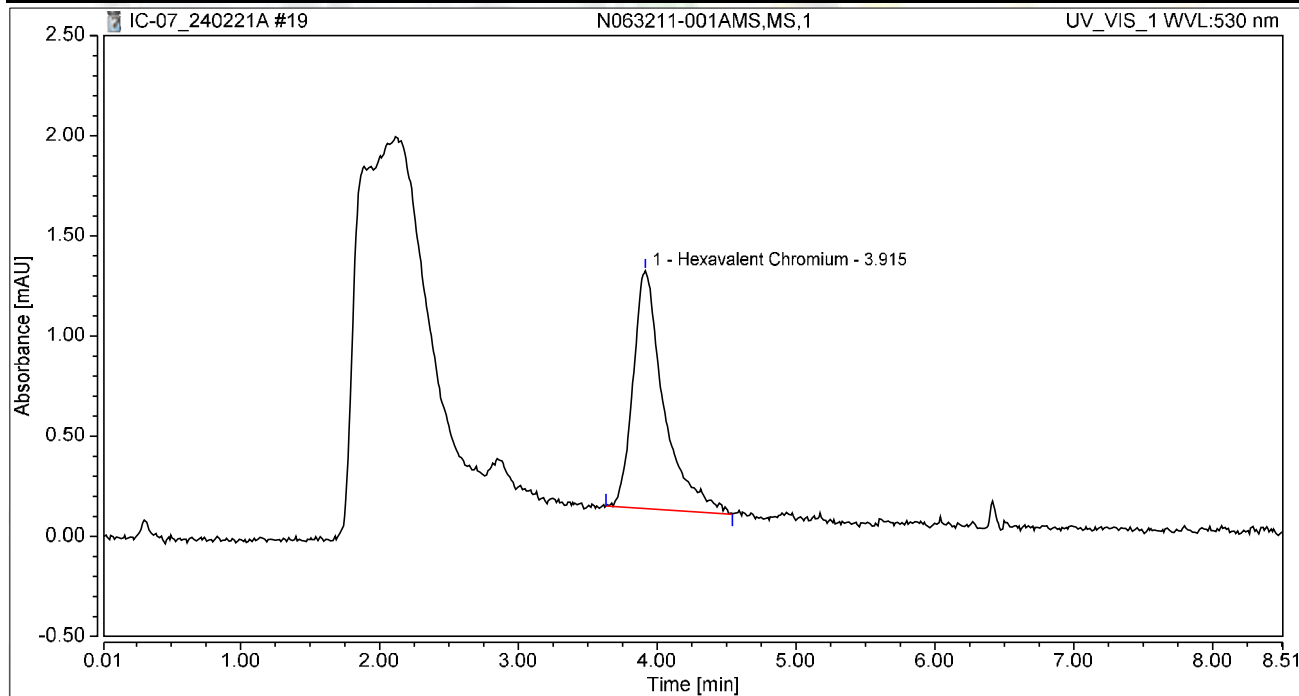
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.906	0.065	0.252	100.00	100.00	0.3007
Total:			0.065	0.252	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063211-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 10:55	Sample Weight:	1.0000

Chromatogram



Integration Results

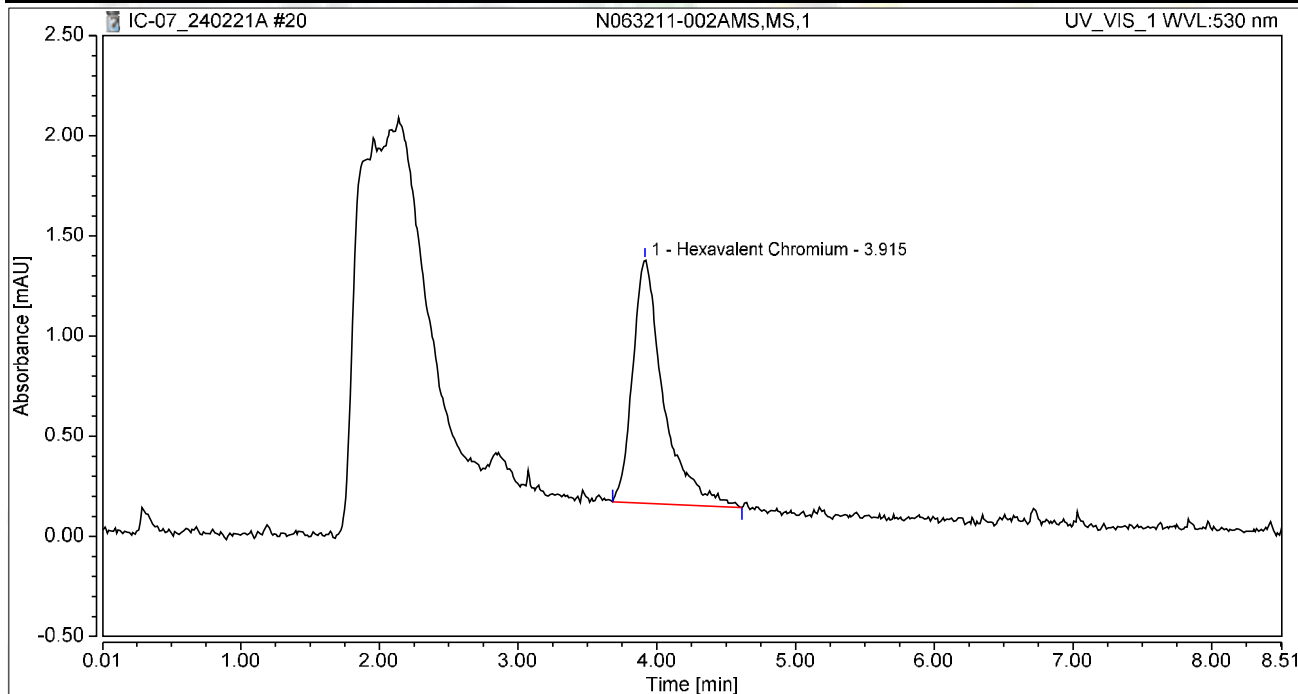
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.915	0.305	1.187	100.00	100.00	1.4173
Total:			0.305	1.187	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063211-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:04	Sample Weight:	1.0000

Chromatogram



Integration Results

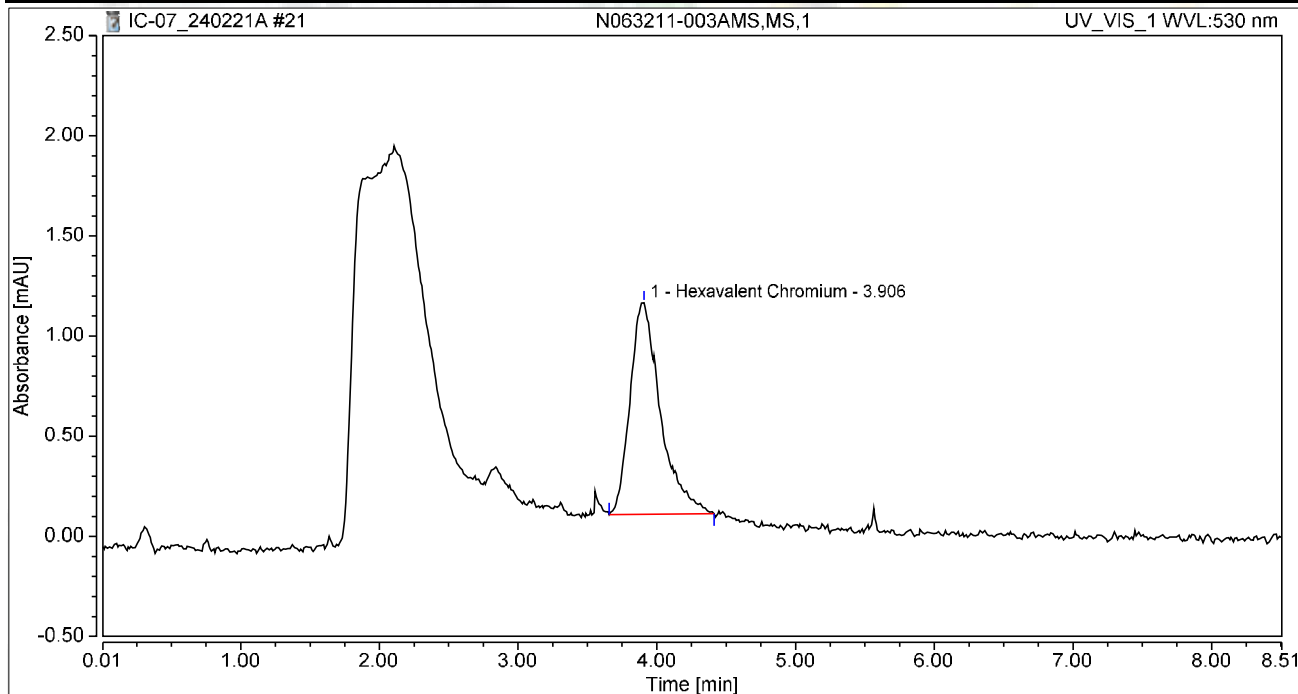
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.915	0.312	1.214	100.00	100.00	1.4523
Total:			0.312	1.214	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063211-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:14	Sample Weight:	1.0000

Chromatogram



Integration Results

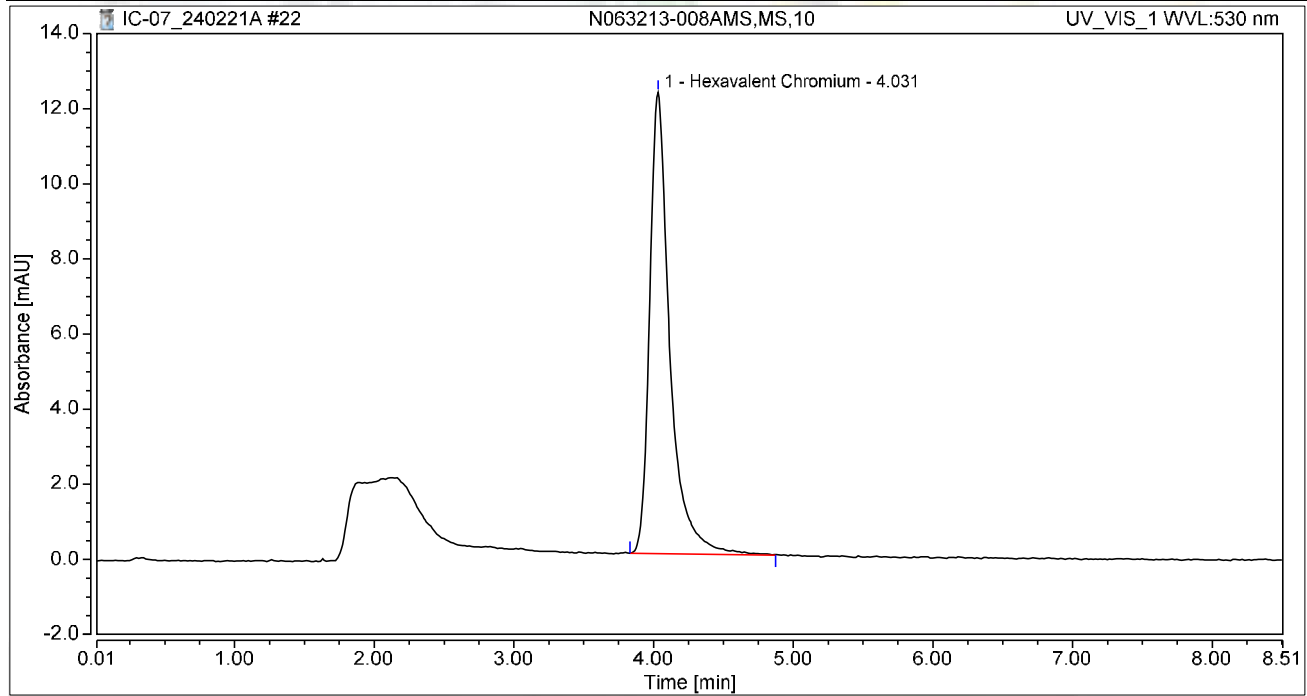
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.906	0.268	1.056	100.00	100.00	1.2476
Total:			0.268	1.056	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-008AMS,MS,10	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:23	Sample Weight:	1.0000

Chromatogram



Integration Results

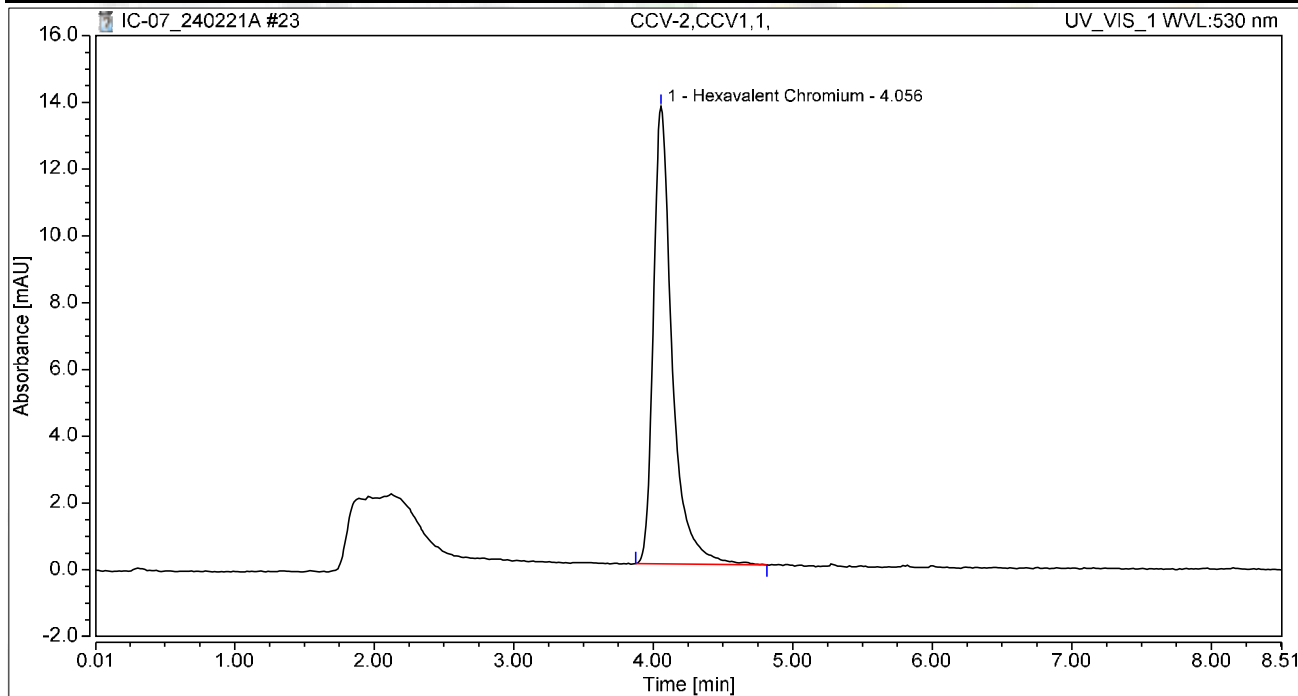
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.052	12.282	100.00	100.00	9.5417
Total:			2.052	12.282	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

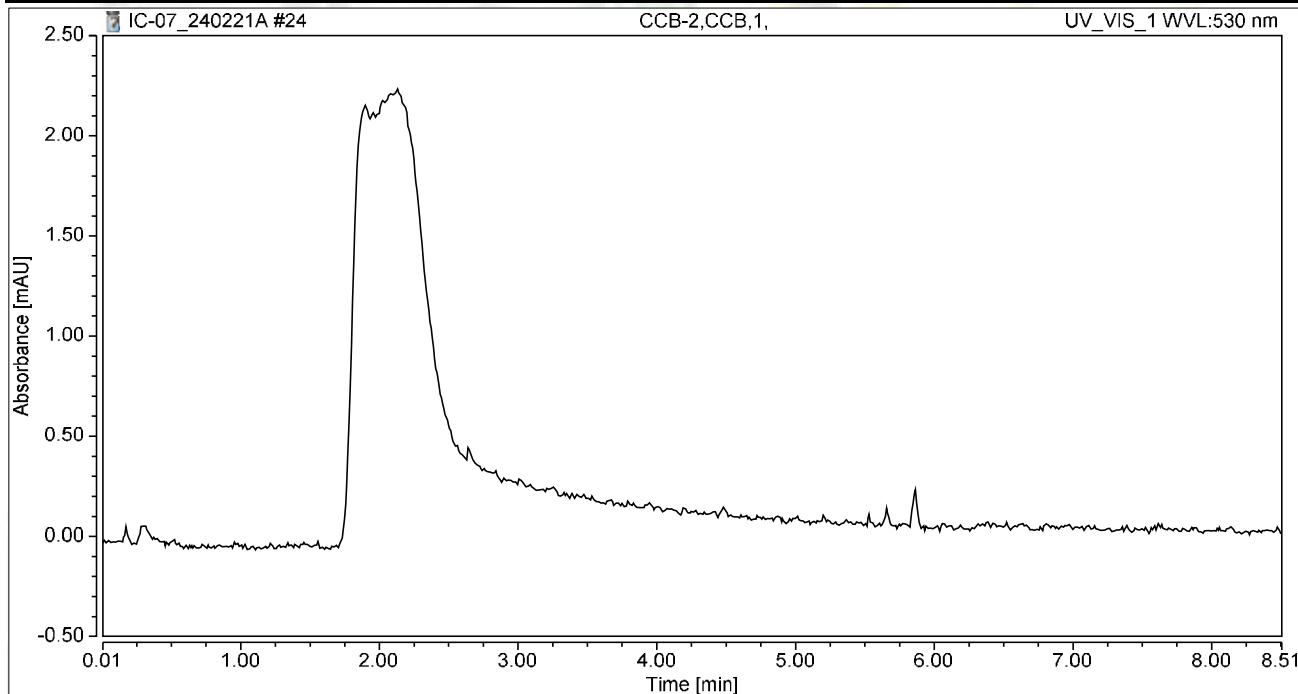
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	2.138	13.696	100.00	100.00	9.9378
Total:			2.138	13.696	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:42	Sample Weight:	1.0000

Chromatogram



Integration Results

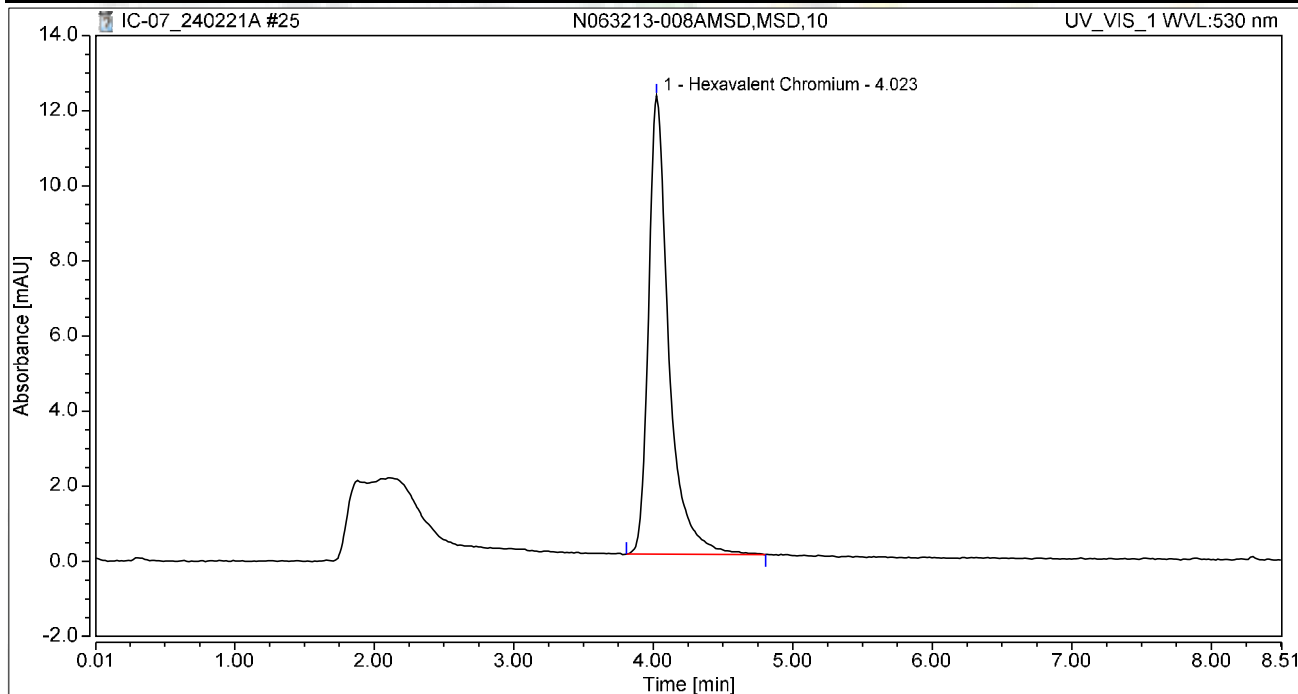
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-008AMSD,MSD,10	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

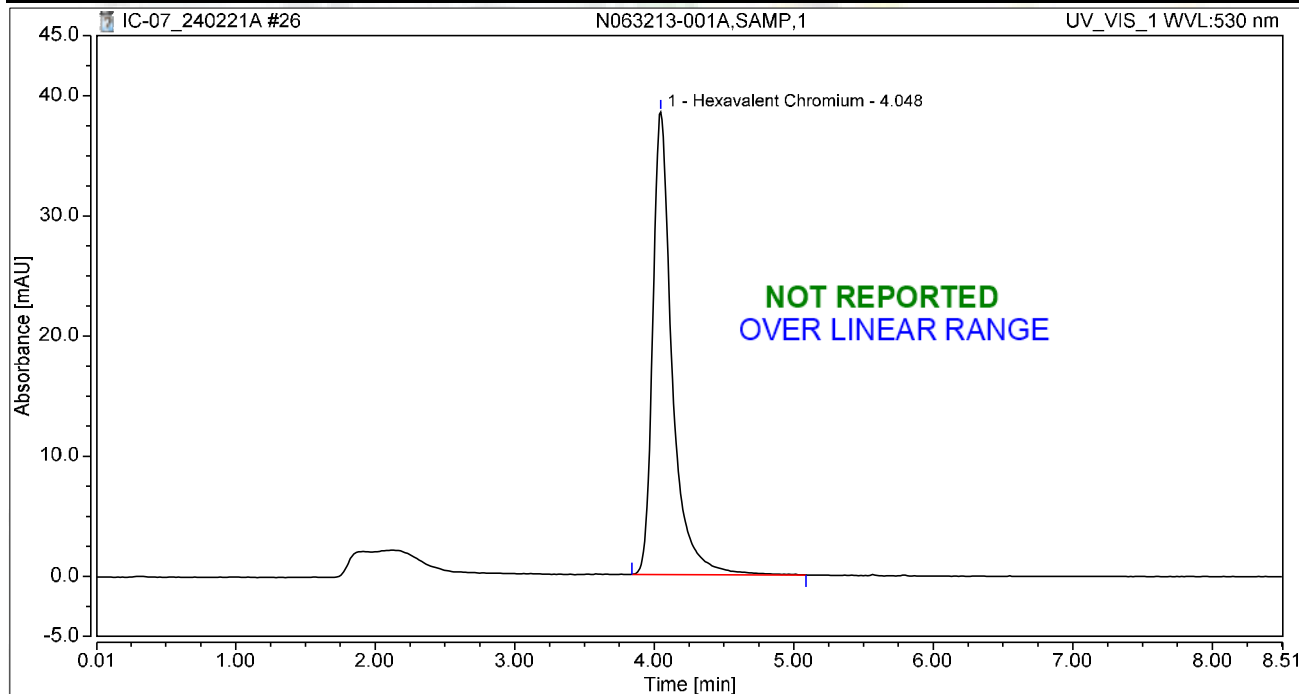
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	2.062	12.208	100.00	100.00	9.5860
Total:			2.062	12.208	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 12:01	Sample Weight:	1.0000

Chromatogram



Integration Results

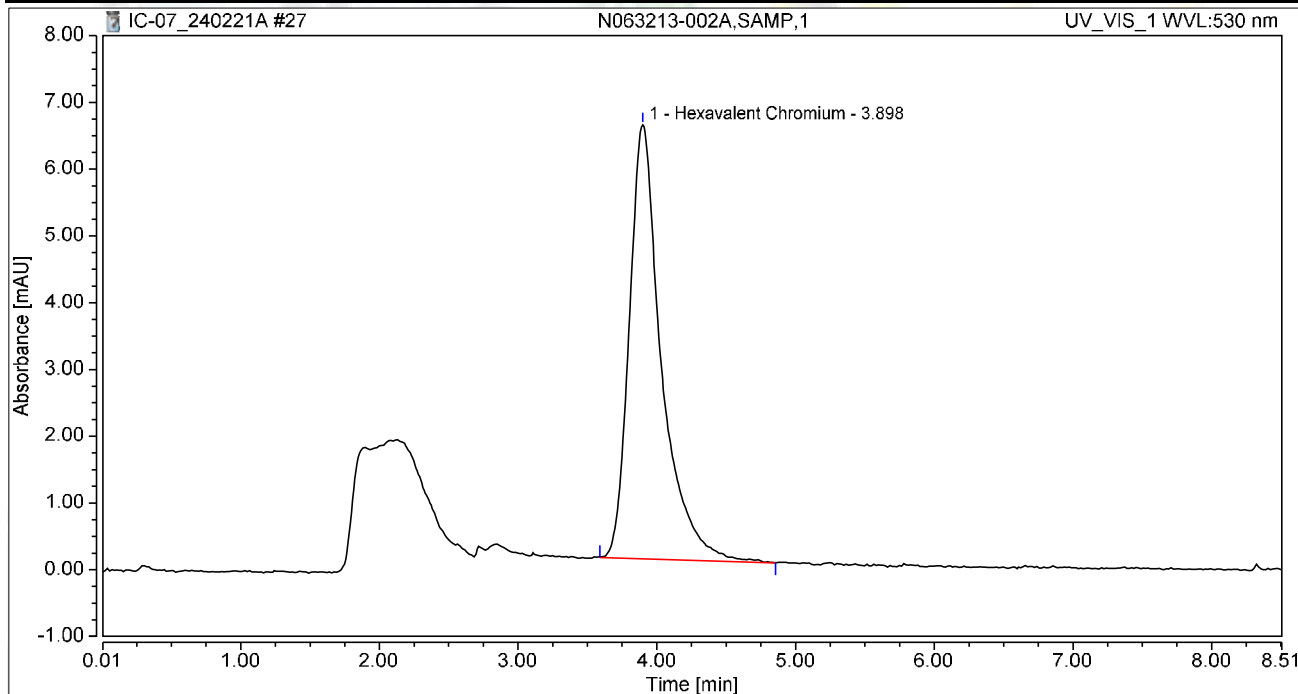
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	6.210	38.498	100.00	100.00	28.8715
Total:			6.210	38.498	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

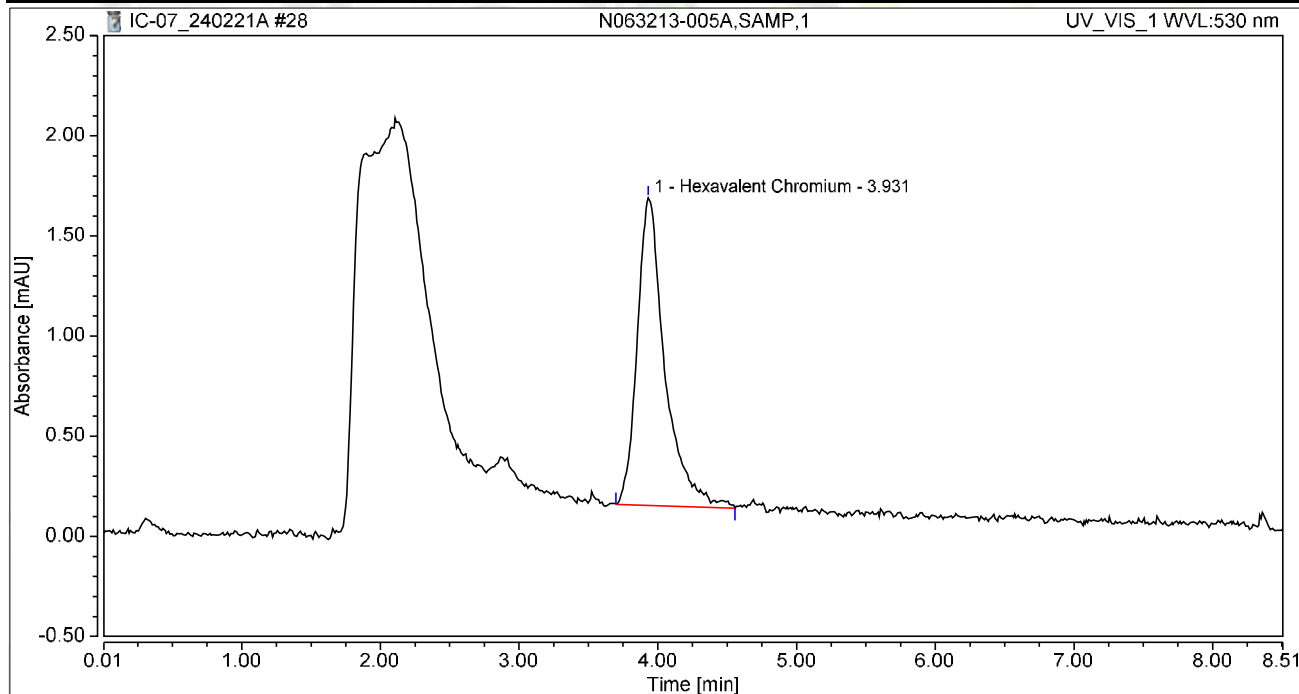
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	1.744	6.500	100.00	100.00	8.1074
Total:			1.744	6.500	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 12:20	Sample Weight:	1.0000

Chromatogram



Integration Results

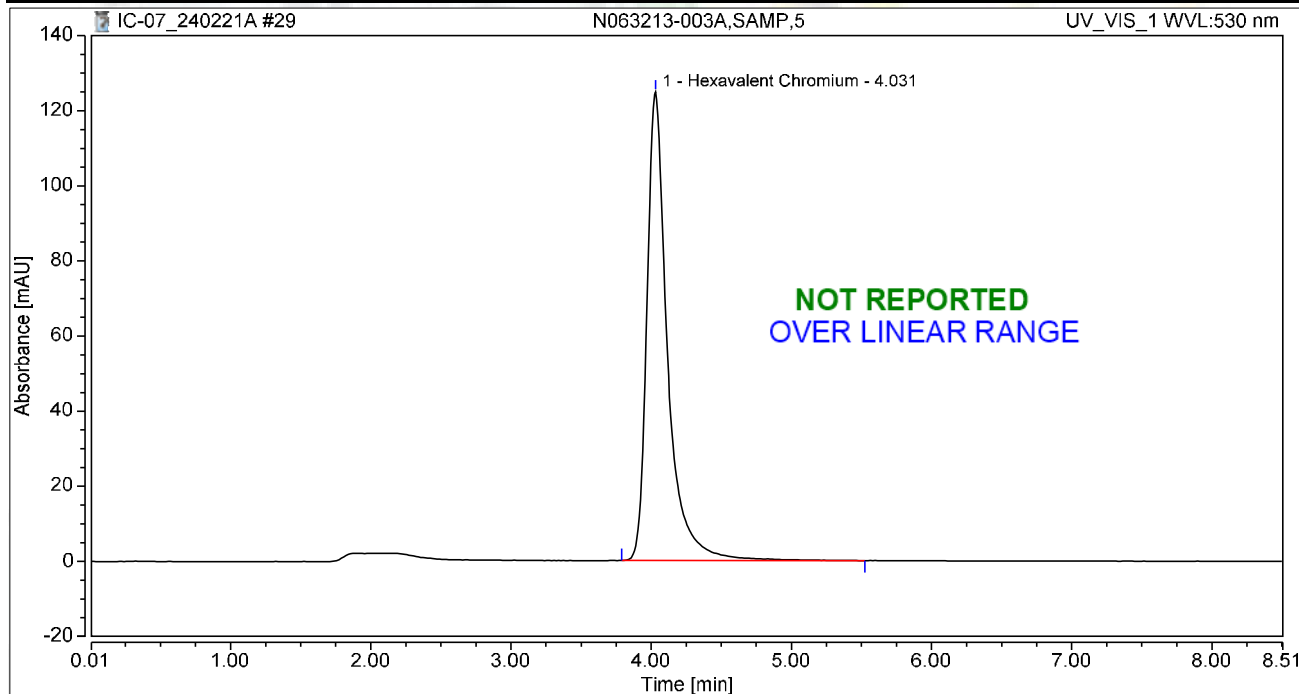
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.931	0.354	1.537	100.00	100.00	1.6463
Total:			0.354	1.537	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 12:30	Sample Weight:	1.0000

Chromatogram



Integration Results

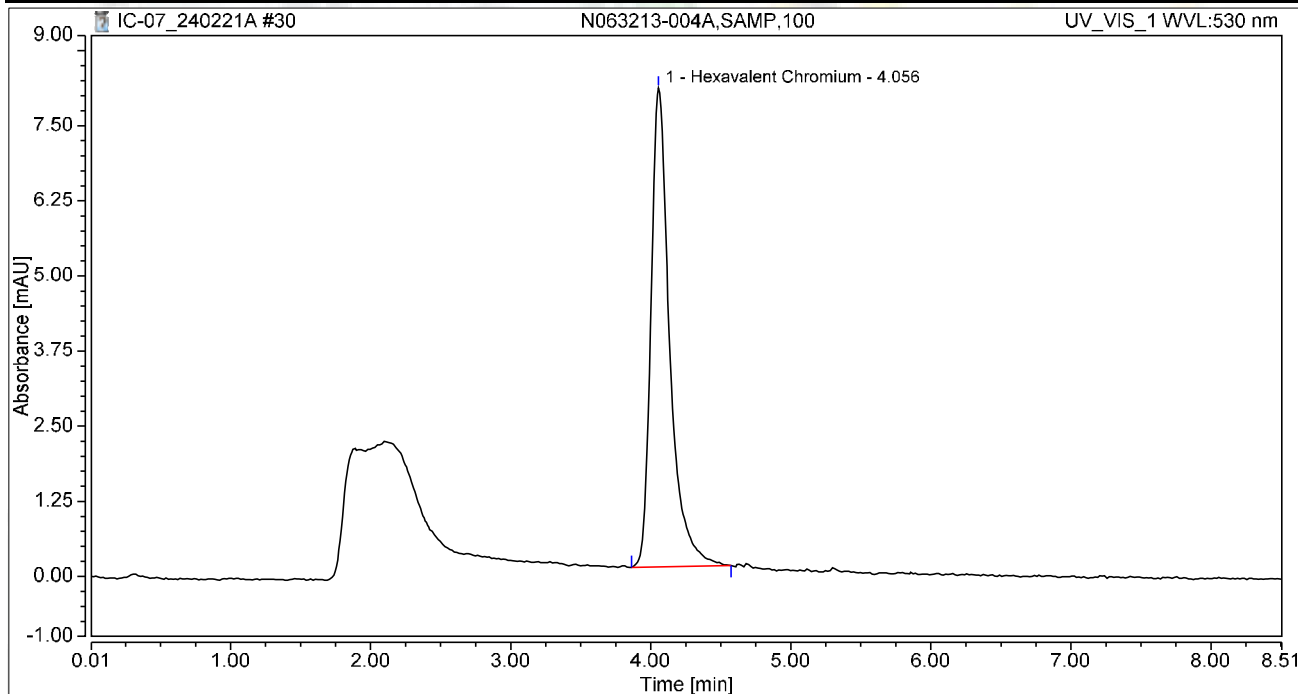
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	21.220	124.763	100.00	100.00	98.6496
Total:			21.220	124.763	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-004A,SAMP,100	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 12:39	Sample Weight:	1.0000

Chromatogram



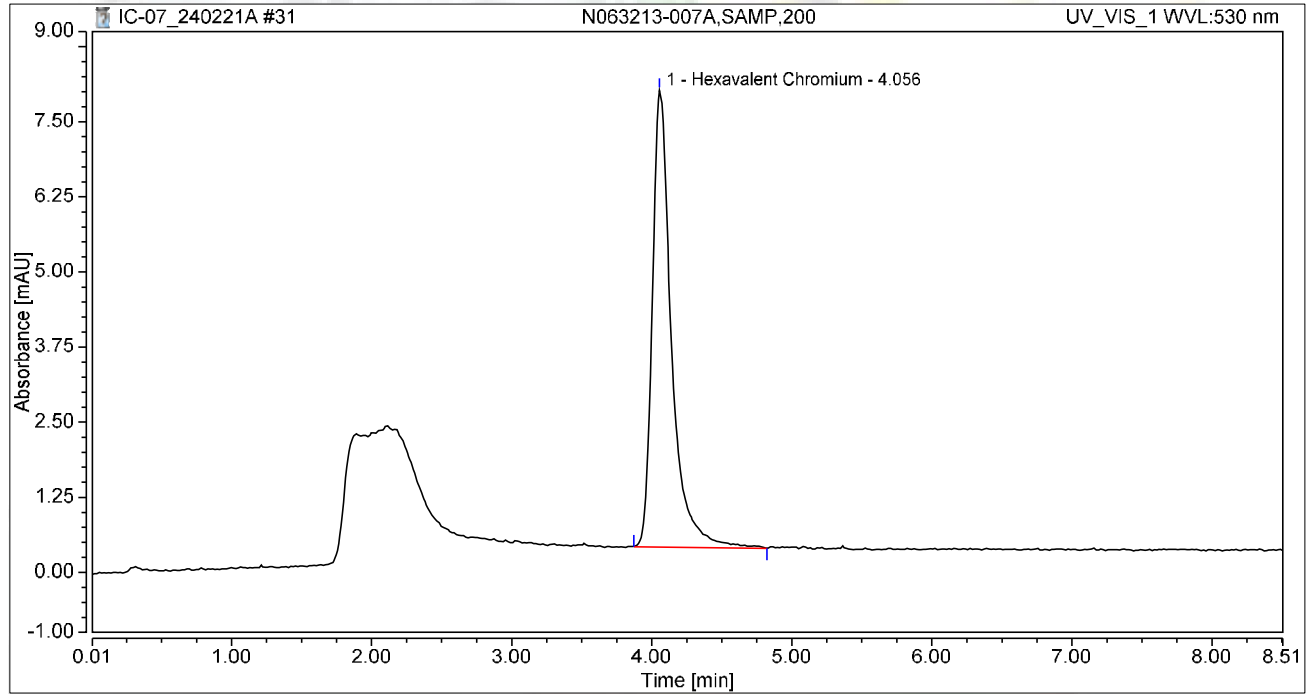
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.238	7.969	100.00	100.00	5.7533
Total:			1.238	7.969	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063213-007A,SAMP,200	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 12:52	Sample Weight: 1.0000

Chromatogram

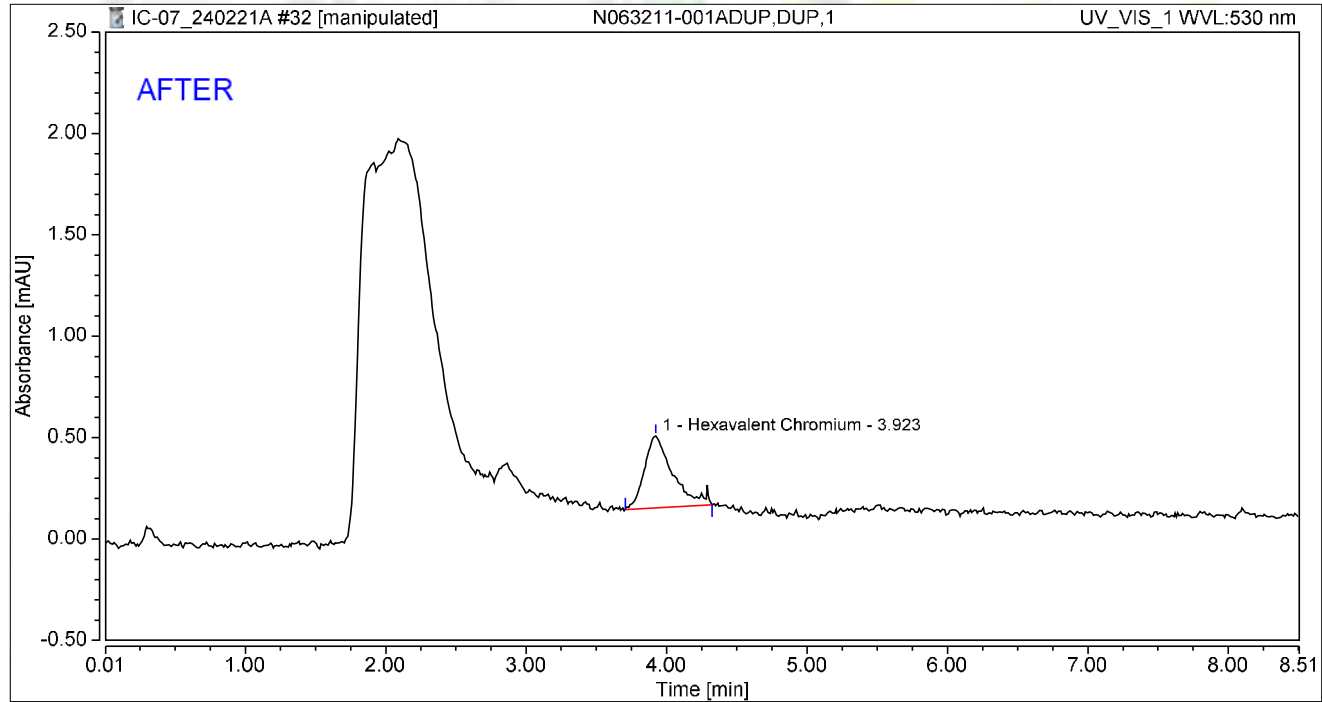


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.211	7.604	100.00	100.00	5.6277
Total:			1.211	7.604	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063211-001ADUP,DUP,1	Run Time (min): 8.50
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 13:03	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.084	0.354	100.00	100.00	0.3915
Total:			0.084	0.354	100.00	100.00	

Reviewed by:

jrb

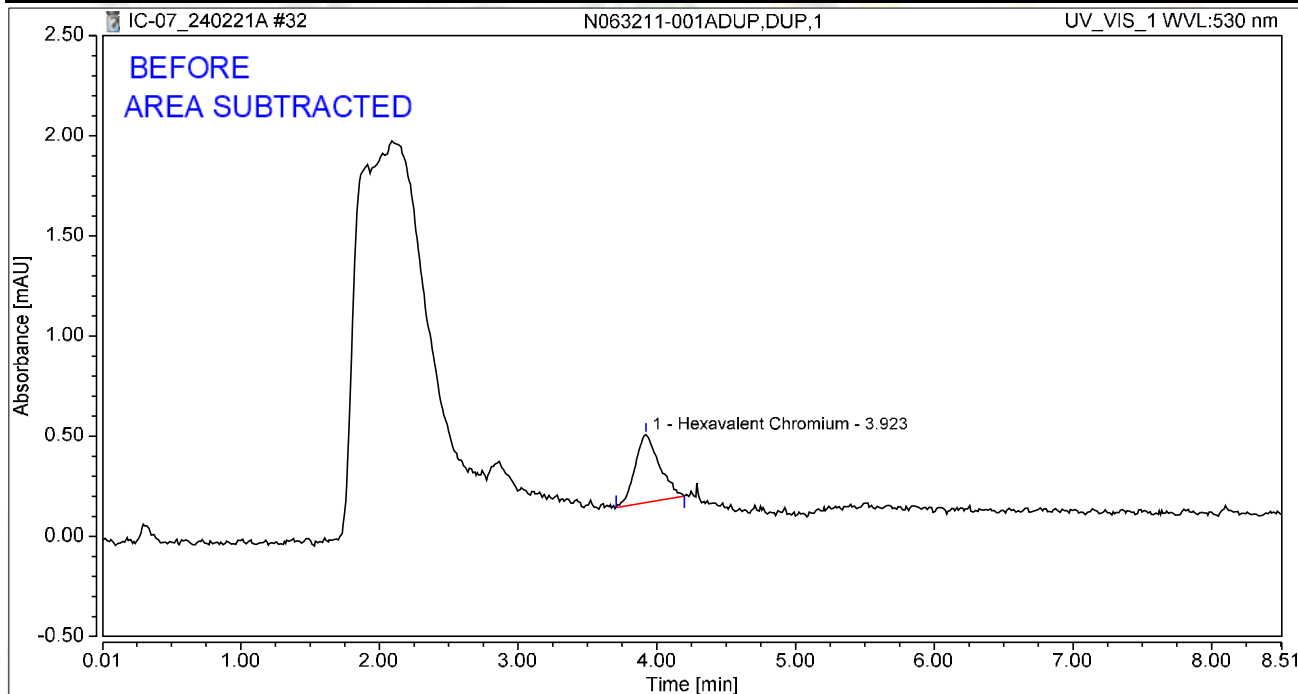
2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063211-001ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:03	Sample Weight:	1.0000

Chromatogram



Integration Results

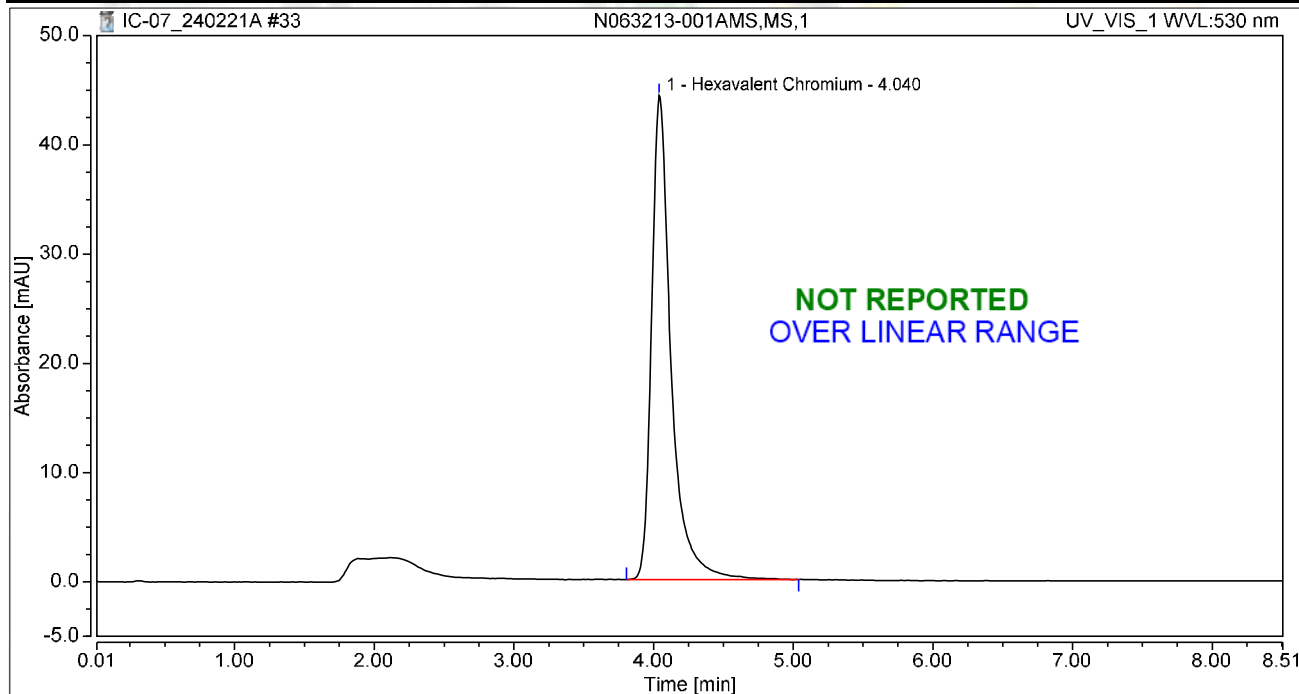
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	0.070	0.338	100.00	100.00	0.3235
Total:			0.070	0.338	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:12	Sample Weight:	1.0000

Chromatogram



Integration Results

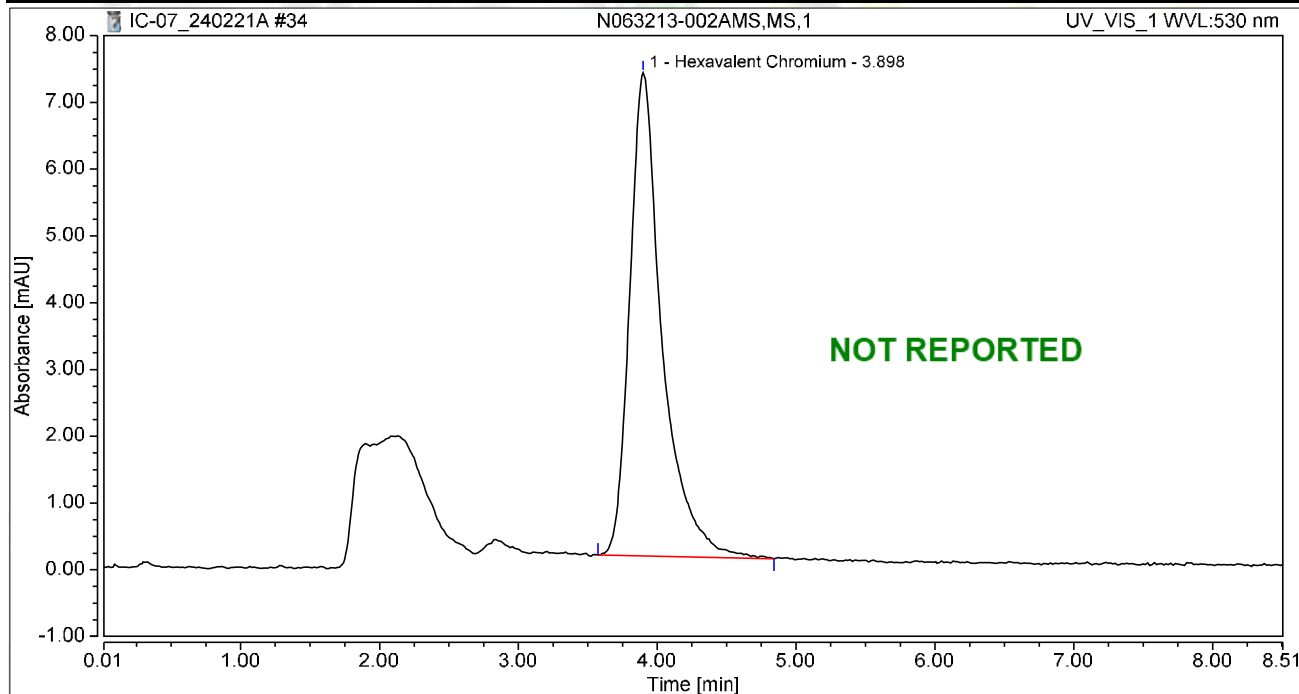
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	7.171	44.306	100.00	100.00	33.3380
Total:			7.171	44.306	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:21	Sample Weight:	1.0000

Chromatogram



Integration Results

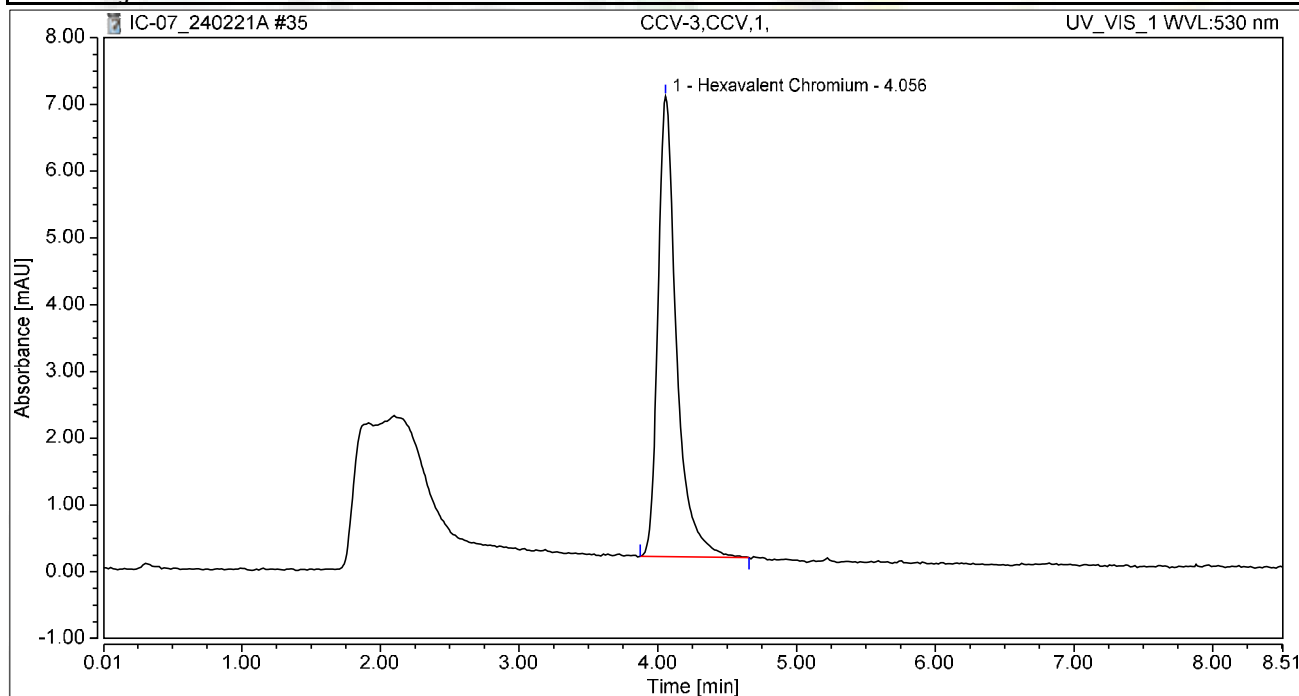
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	1.958	7.237	100.00	100.00	9.1039
Total:			1.958	7.237	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:31	Sample Weight:	1.0000

Chromatogram



Integration Results

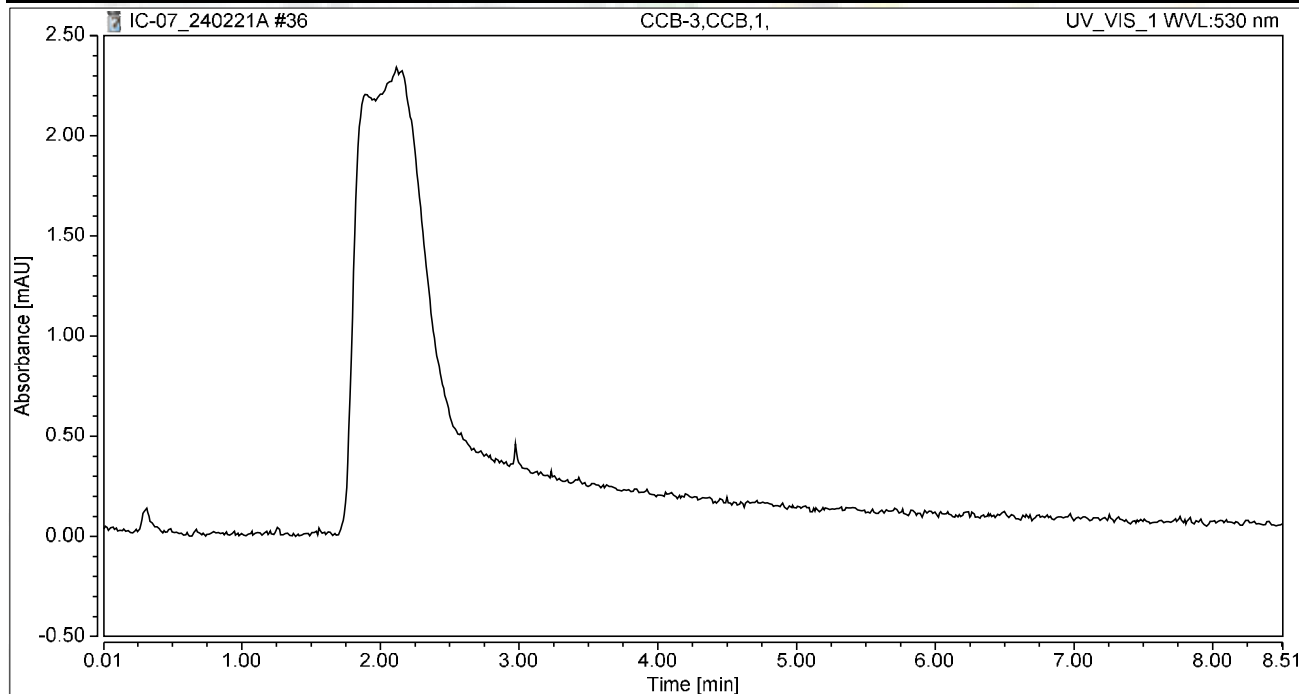
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.071	6.894	100.00	100.00	4.9771
Total:			1.071	6.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:40	Sample Weight:	1.0000

Chromatogram



Integration Results

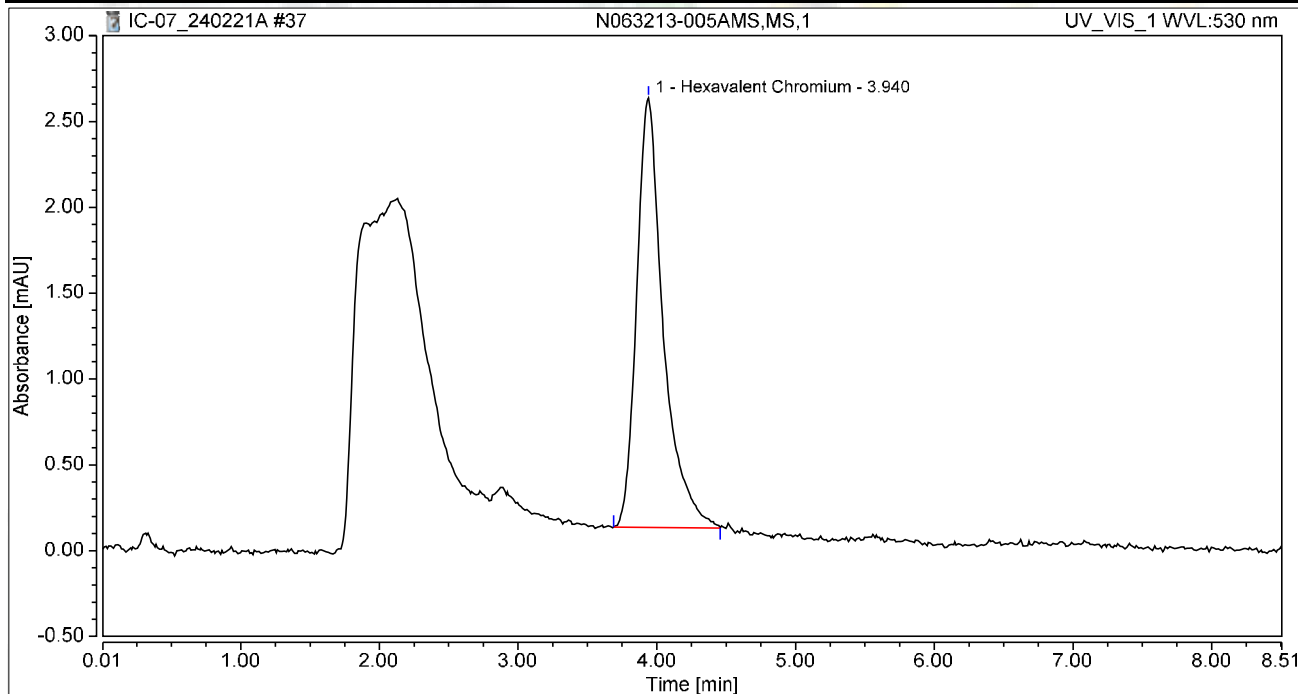
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:50	Sample Weight:	1.0000

Chromatogram



Integration Results

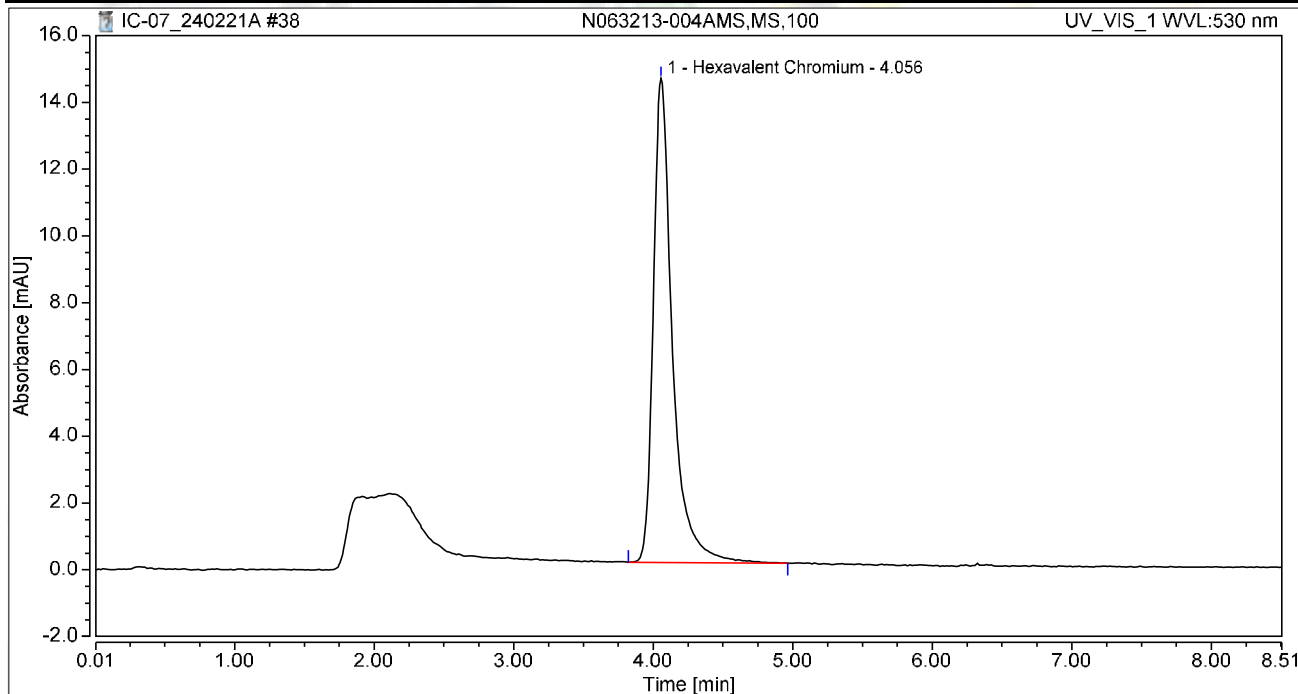
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.940	0.555	2.501	100.00	100.00	2.5807
Total:			0.555	2.501	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-004AMS,MS,100	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 13:59	Sample Weight:	1.0000

Chromatogram



Integration Results

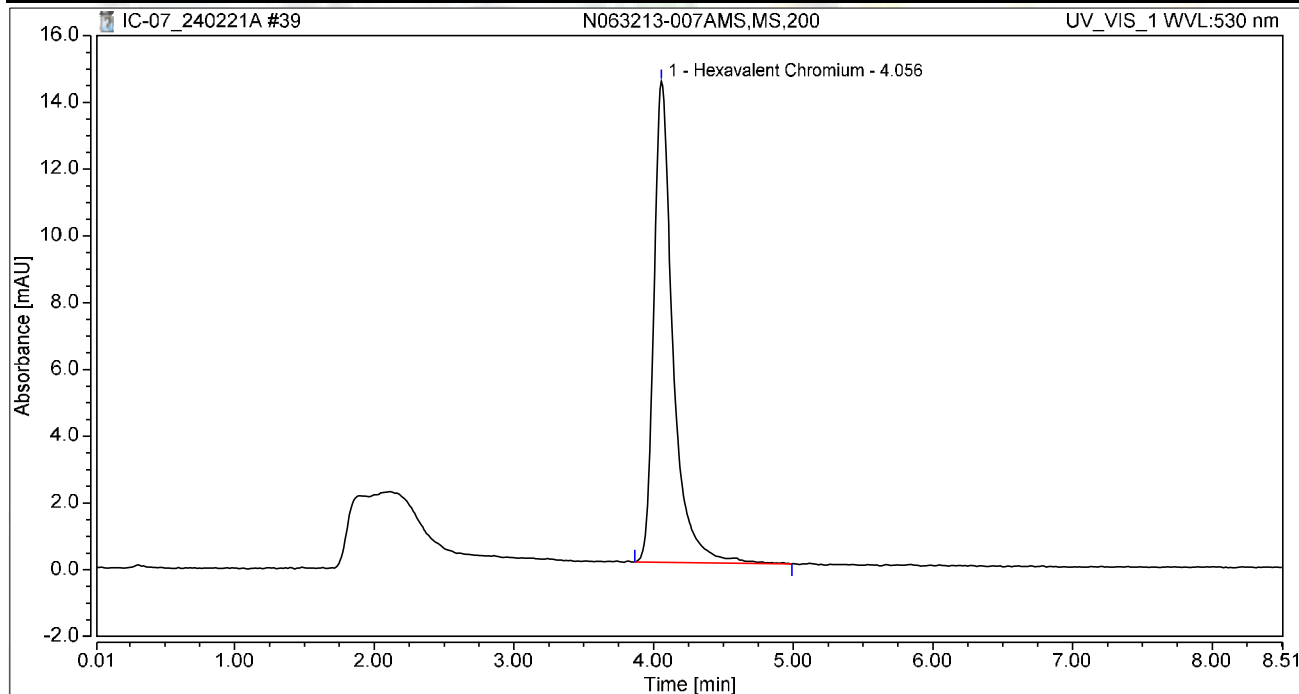
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	2.303	14.502	100.00	100.00	10.7064
Total:			2.303	14.502	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-007AMS,MS,200	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 14:09	Sample Weight:	1.0000

Chromatogram



Integration Results

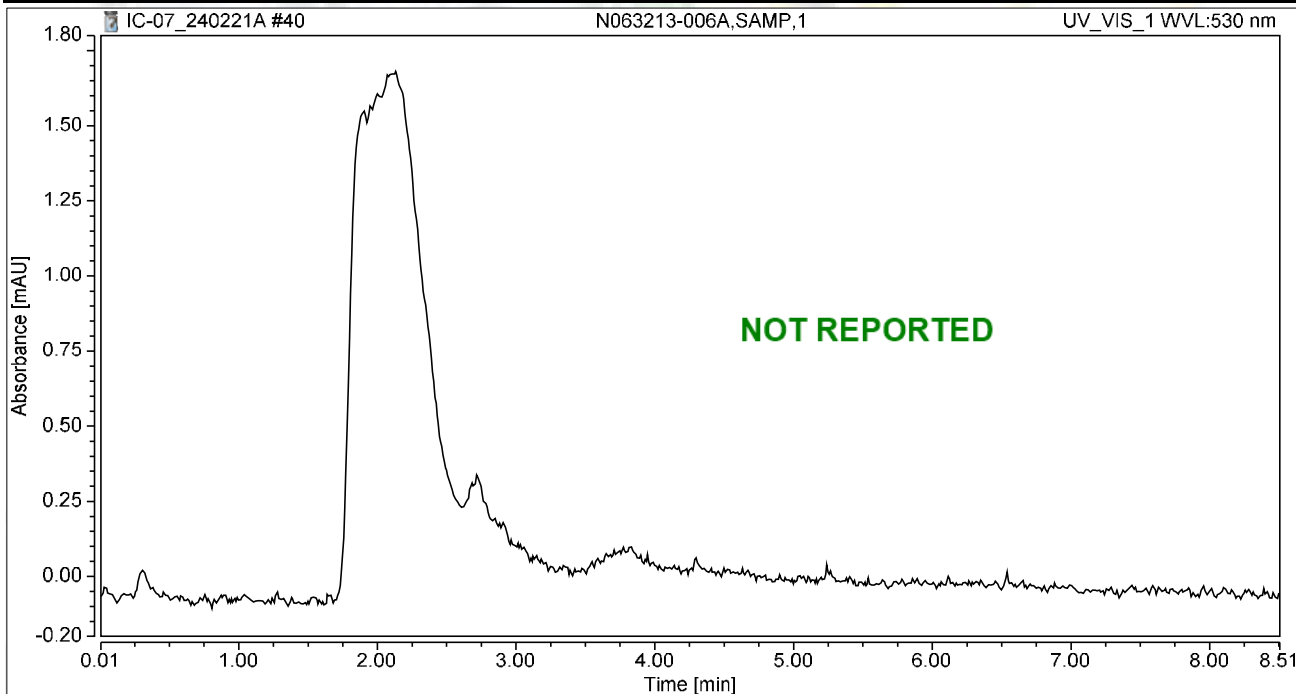
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	2.281	14.403	100.00	100.00	10.6062
Total:			2.281	14.403	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 14:18	Sample Weight:	1.0000

Chromatogram



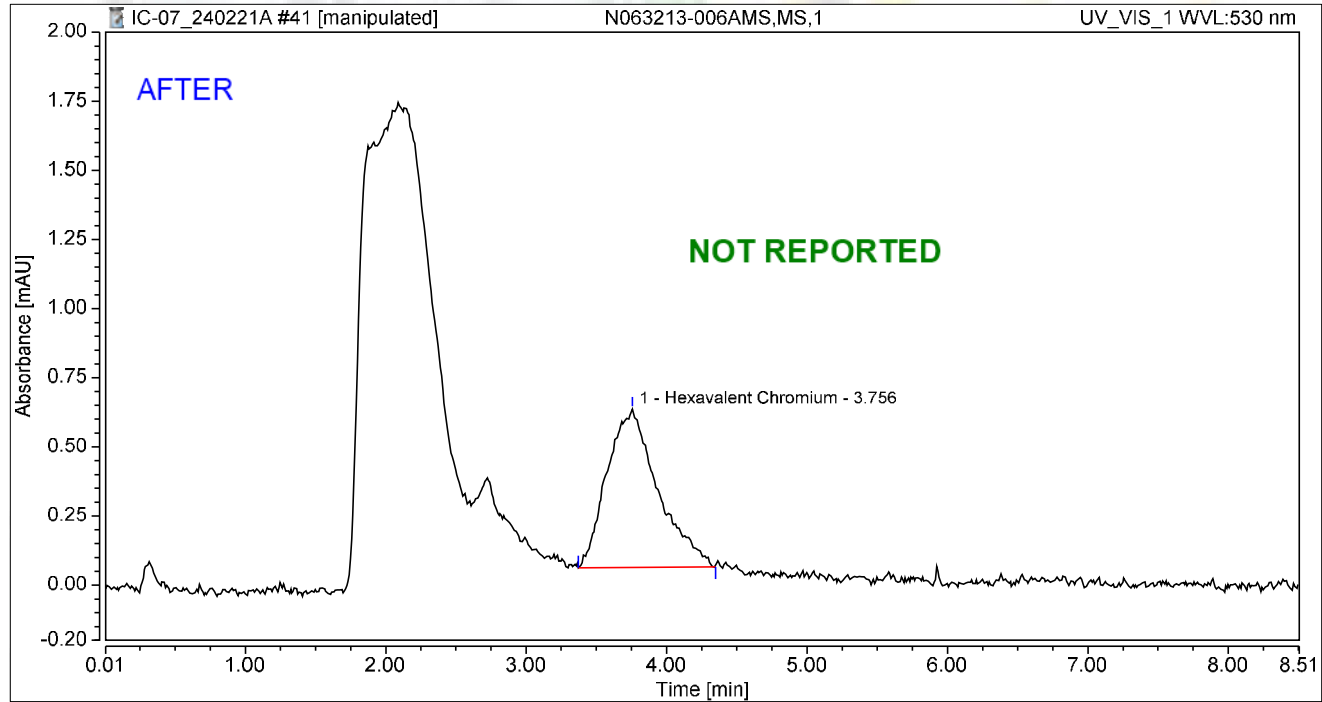
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063213-006AMS,MS,1	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 14:28	Sample Weight: 1.0000

Chromatogram



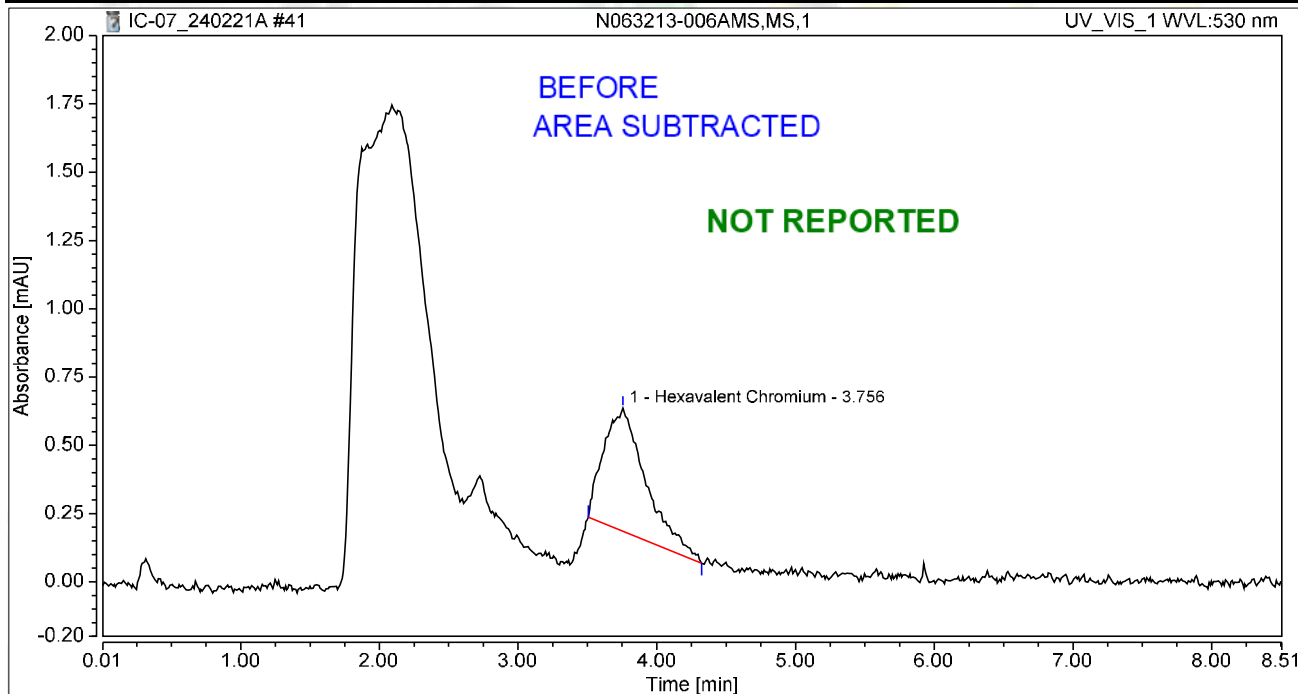
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.756	0.240	0.572	100.00	100.00	1.1181
Total:			0.240	0.572	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 14:28	Sample Weight:	1.0000

Chromatogram



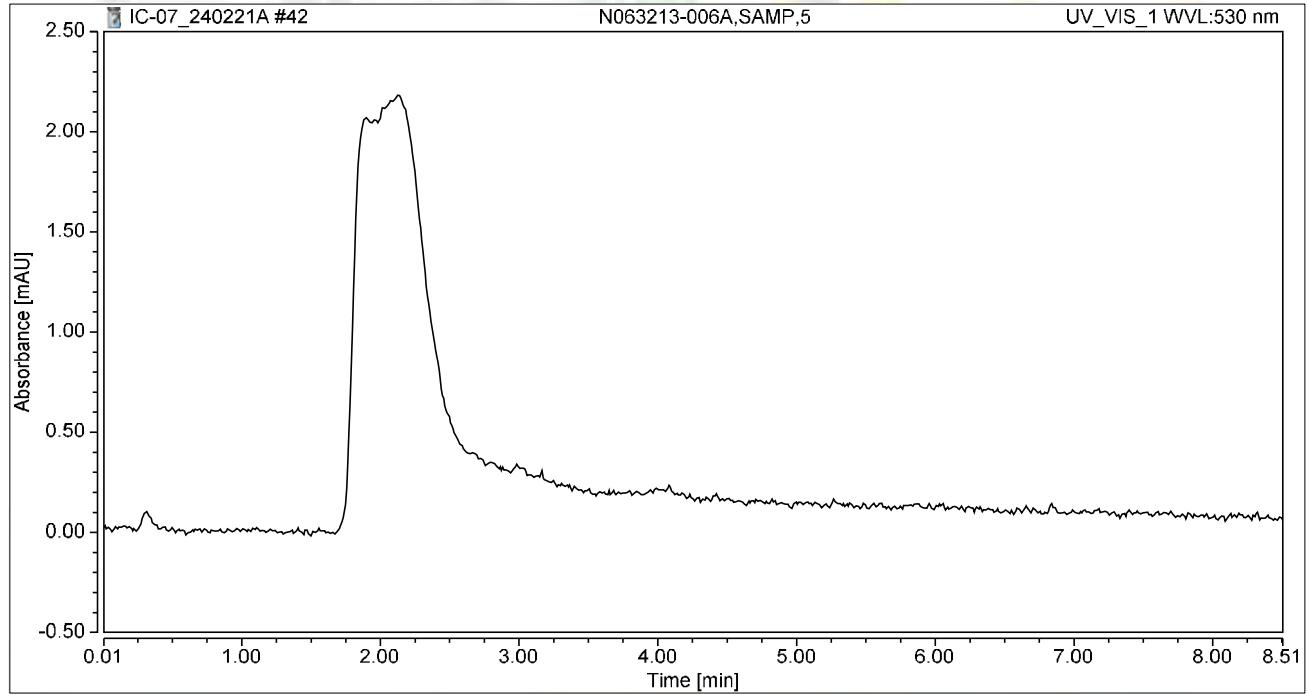
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.756	0.159	0.451	100.00	100.00	0.7378
Total:			0.159	0.451	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063213-006A,SAMP,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 14:37	Sample Weight: 1.0000

Chromatogram



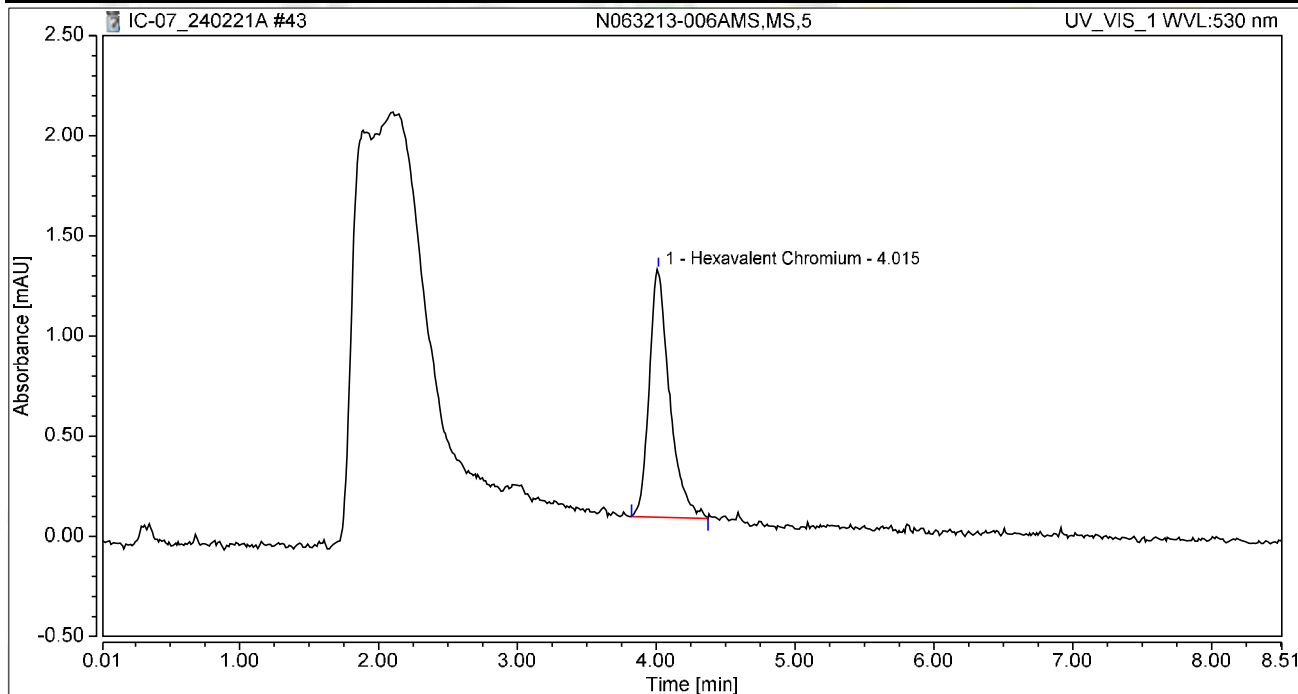
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-006AMS,MS,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 14:46	Sample Weight:	1.0000

Chromatogram



Integration Results

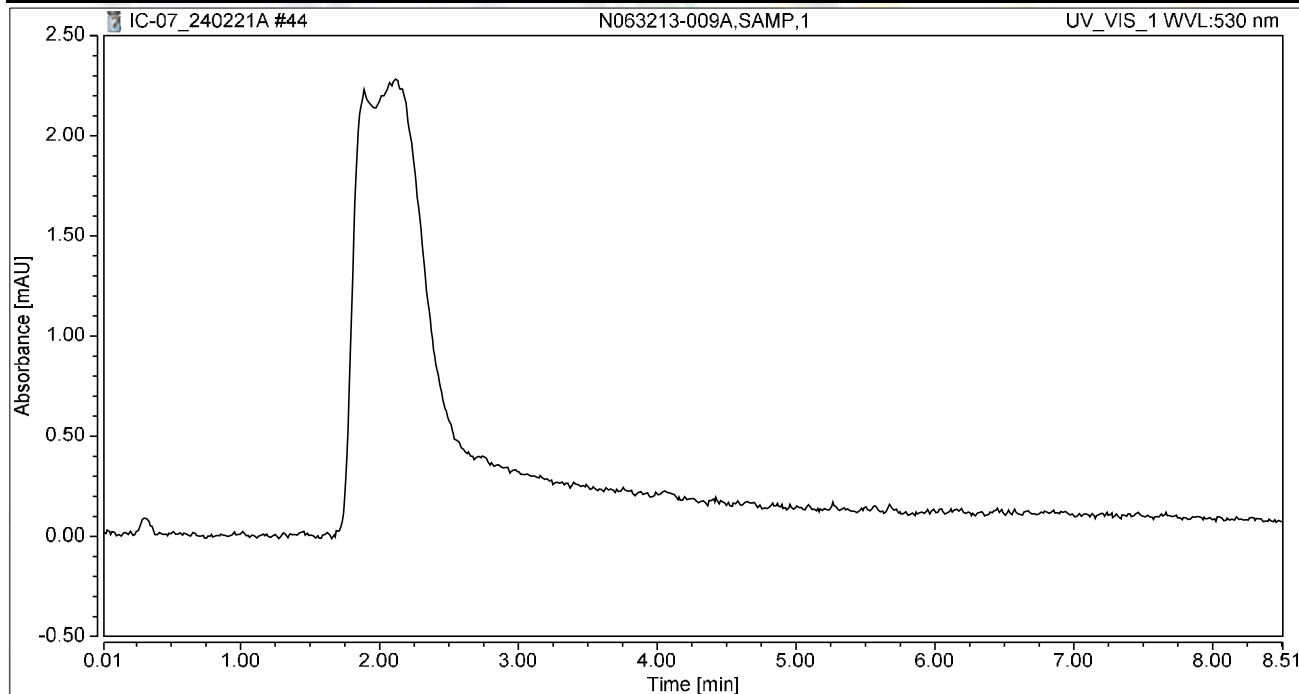
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.210	1.236	100.00	100.00	0.9766
Total:			0.210	1.236	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 14:56	Sample Weight:	1.0000

Chromatogram



Integration Results

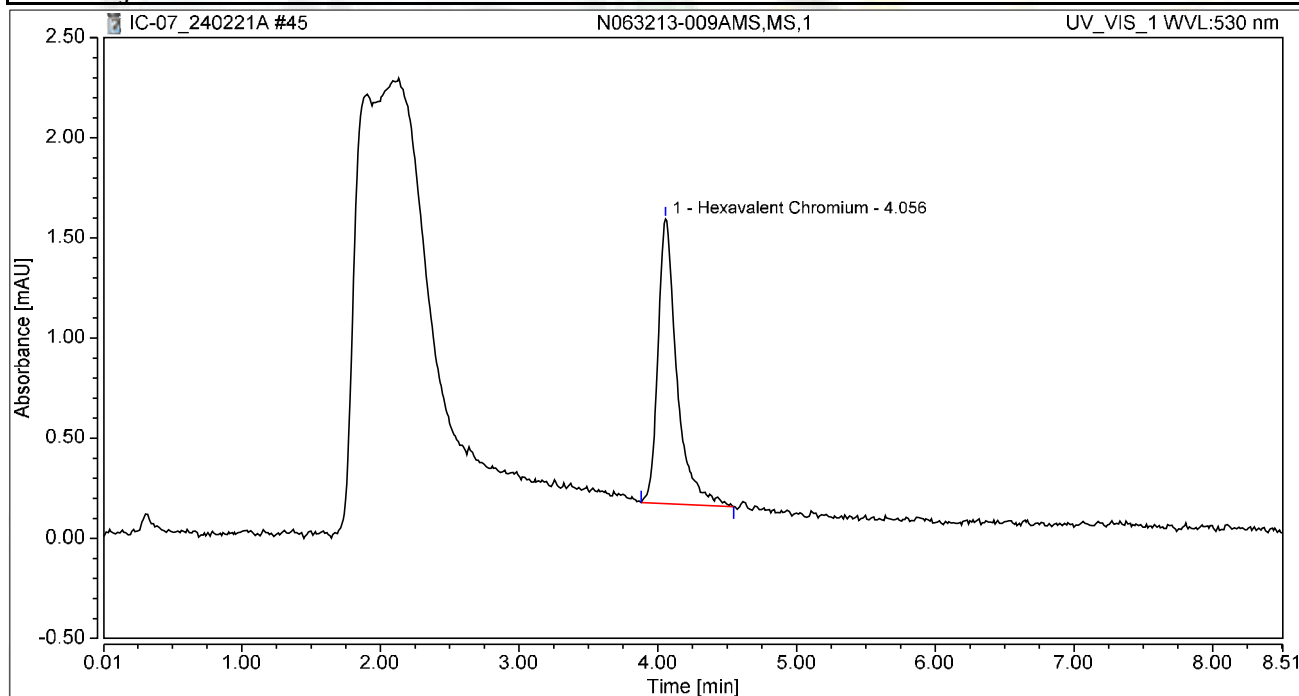
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 15:05	Sample Weight:	1.0000

Chromatogram



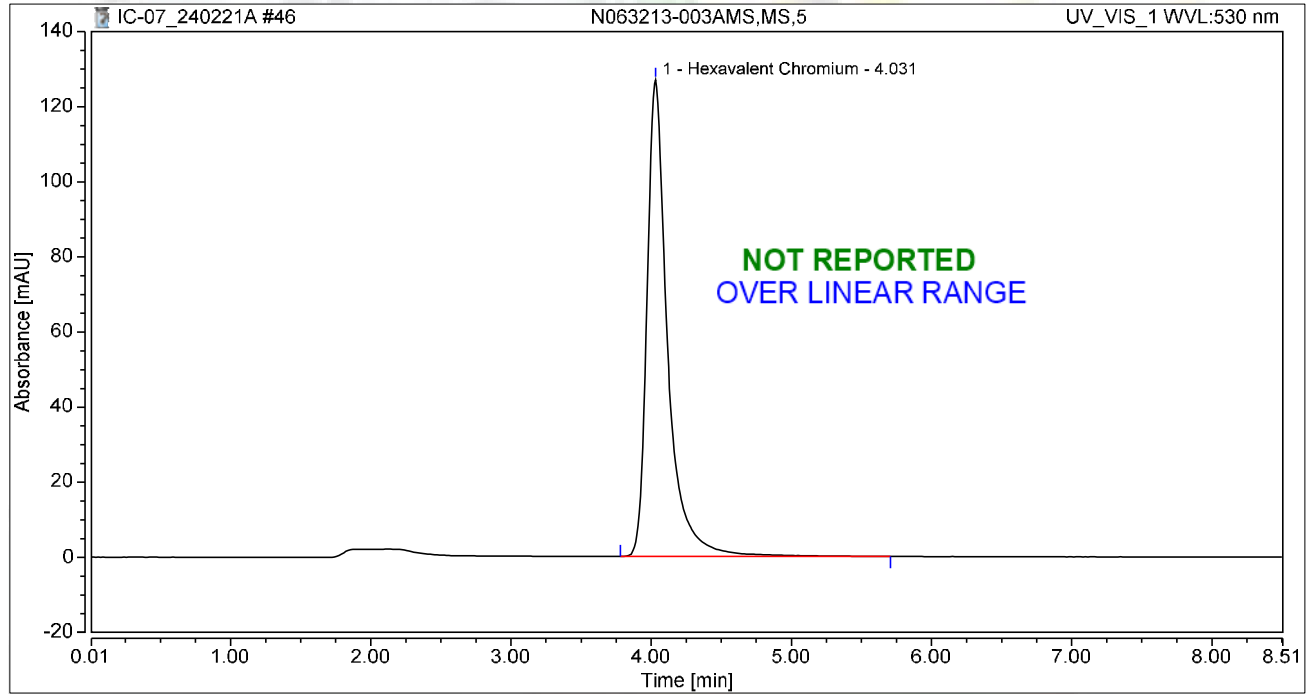
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.225	1.422	100.00	100.00	1.0467
Total:			0.225	1.422	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063213-003AMS,MS,5	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 15:15	Sample Weight: 1.0000

Chromatogram



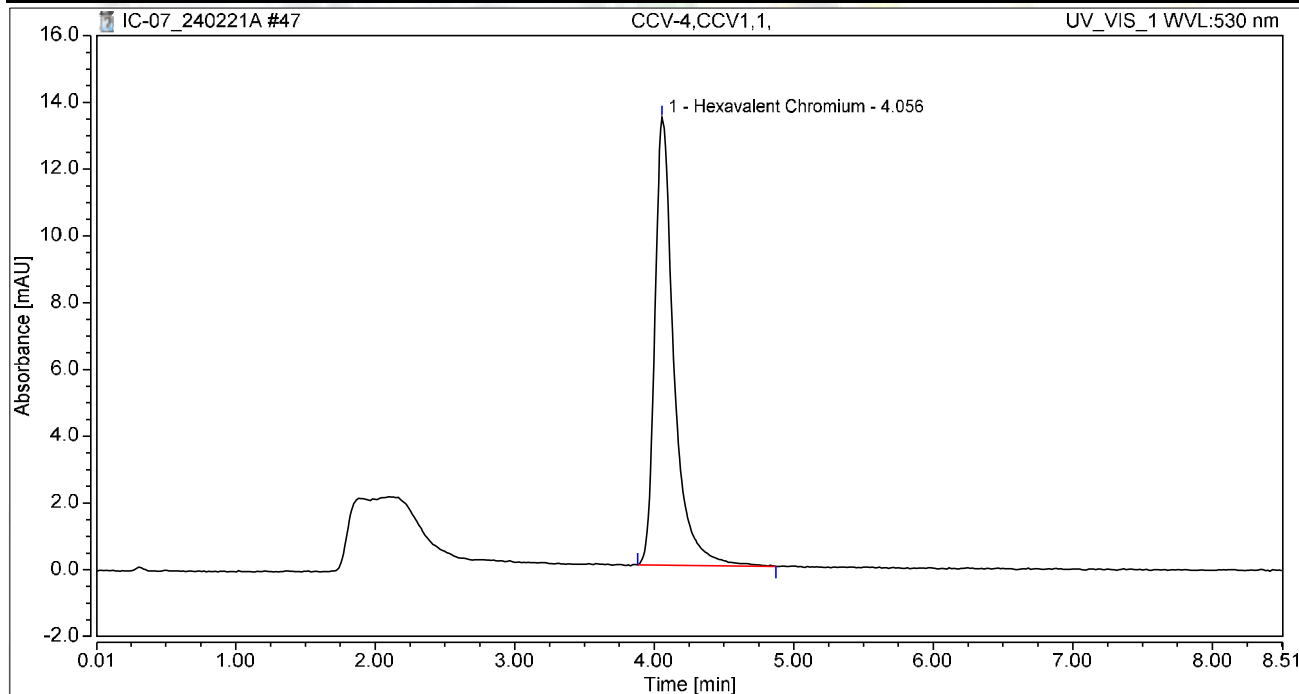
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	21.656	126.939	100.00	100.00	100.6789
Total:			21.656	126.939	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 15:24	Sample Weight:	1.0000

Chromatogram



Integration Results

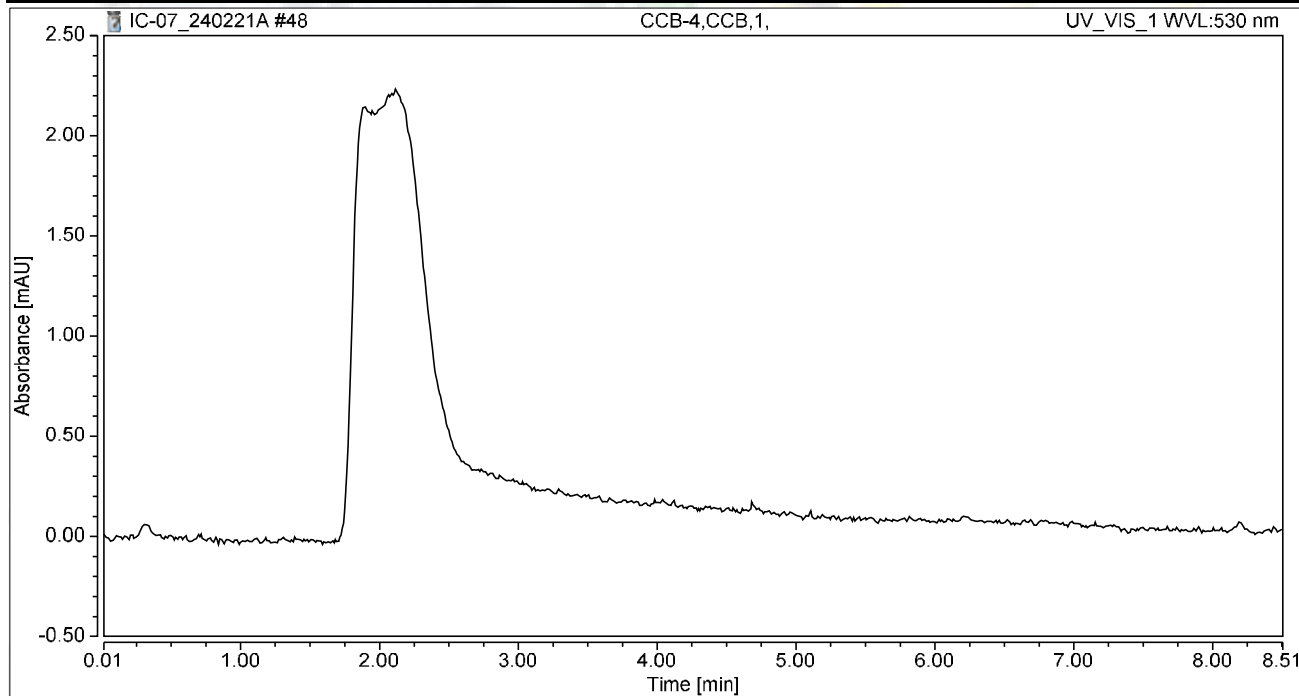
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	2.128	13.405	100.00	100.00	9.8925
Total:			2.128	13.405	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 15:34	Sample Weight:	1.0000

Chromatogram



Integration Results

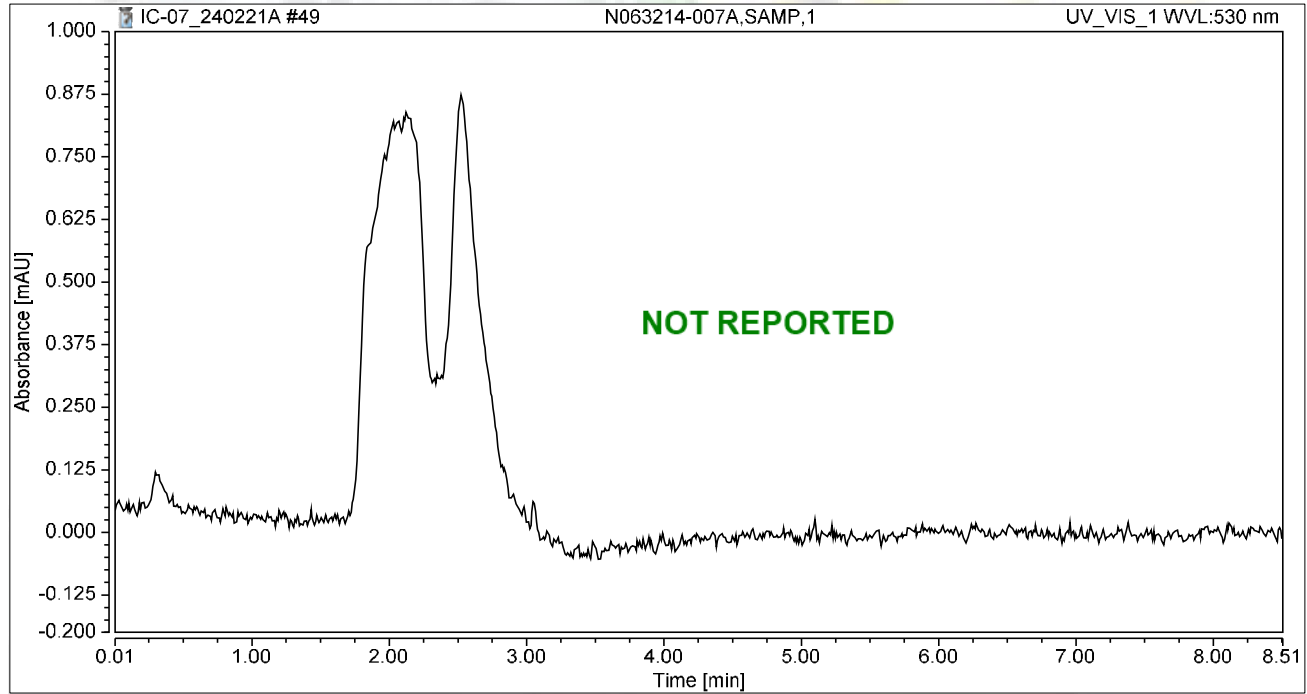
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 15:43	Sample Weight:	1.0000

Chromatogram



Integration Results

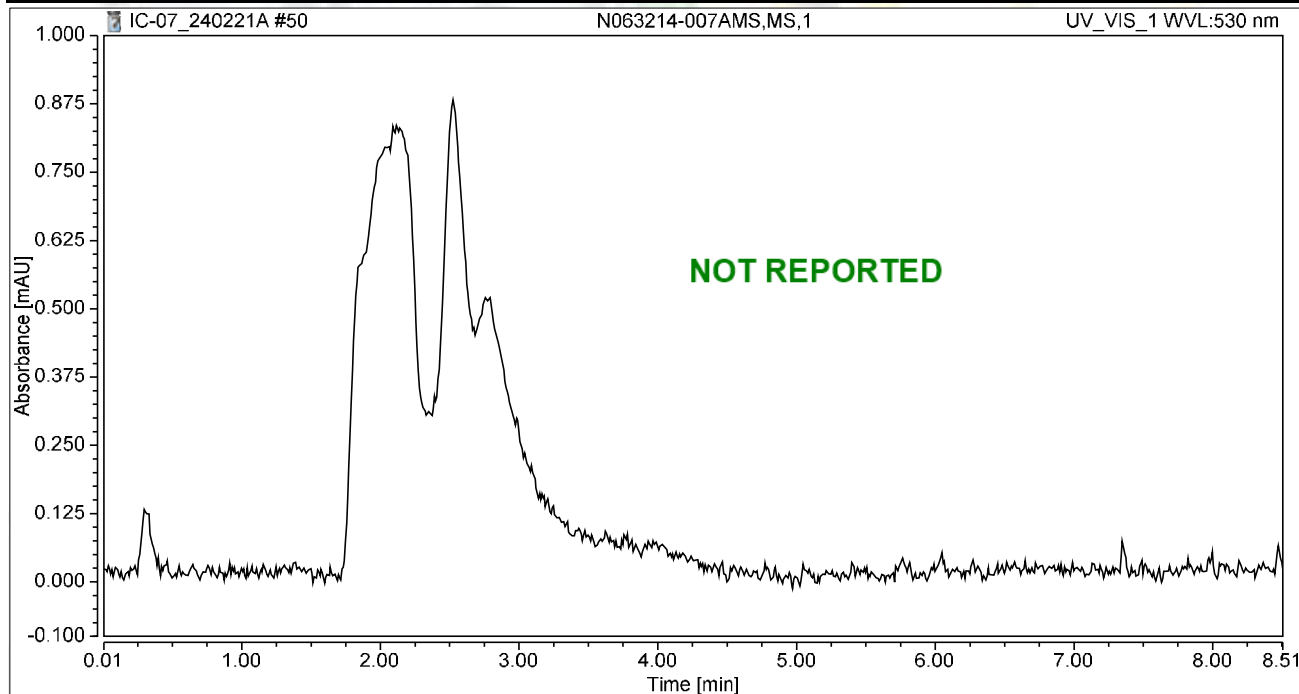
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 15:53	Sample Weight:	1.0000

Chromatogram



Integration Results

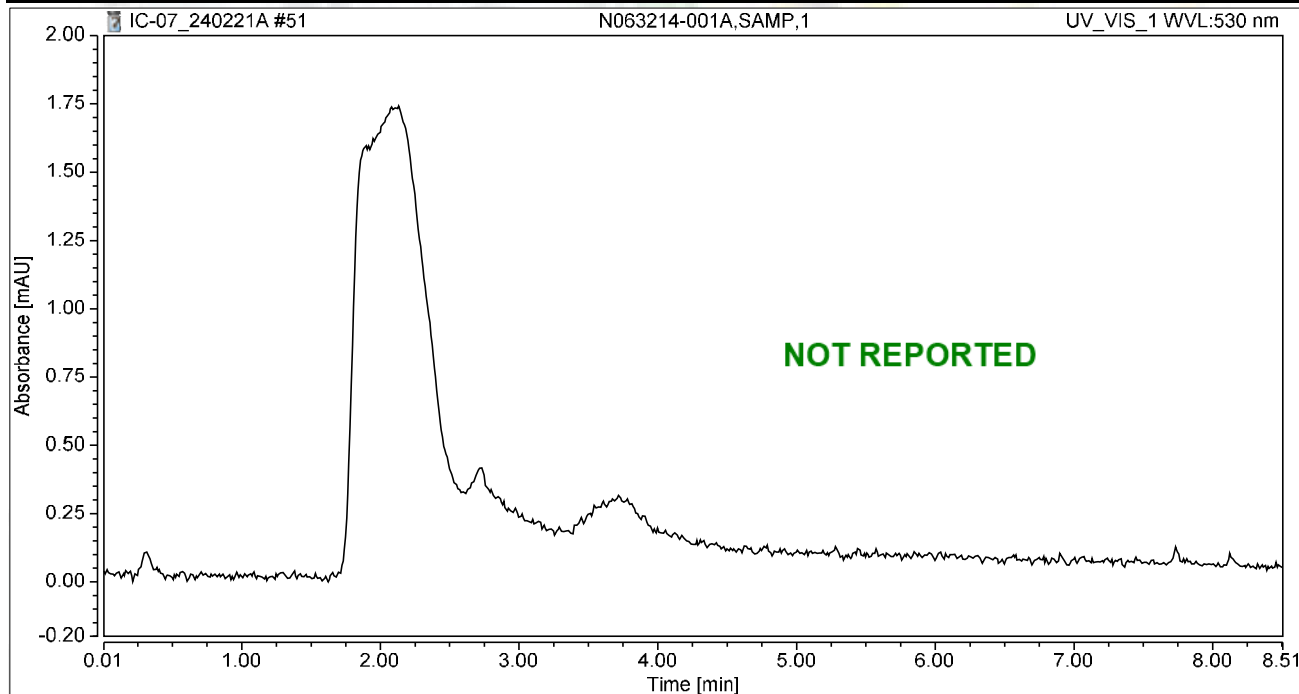
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 16:02	Sample Weight:	1.0000

Chromatogram



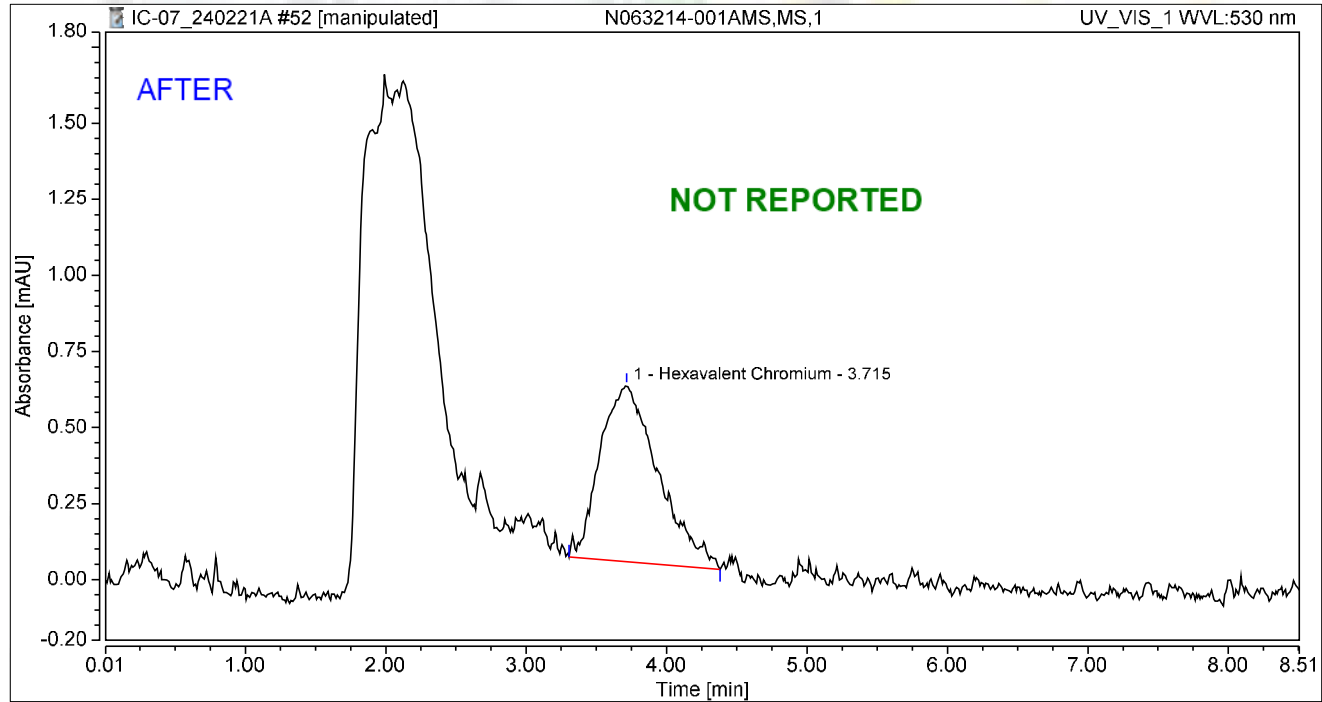
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063214-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 16:52	Sample Weight: 1.0000

Chromatogram



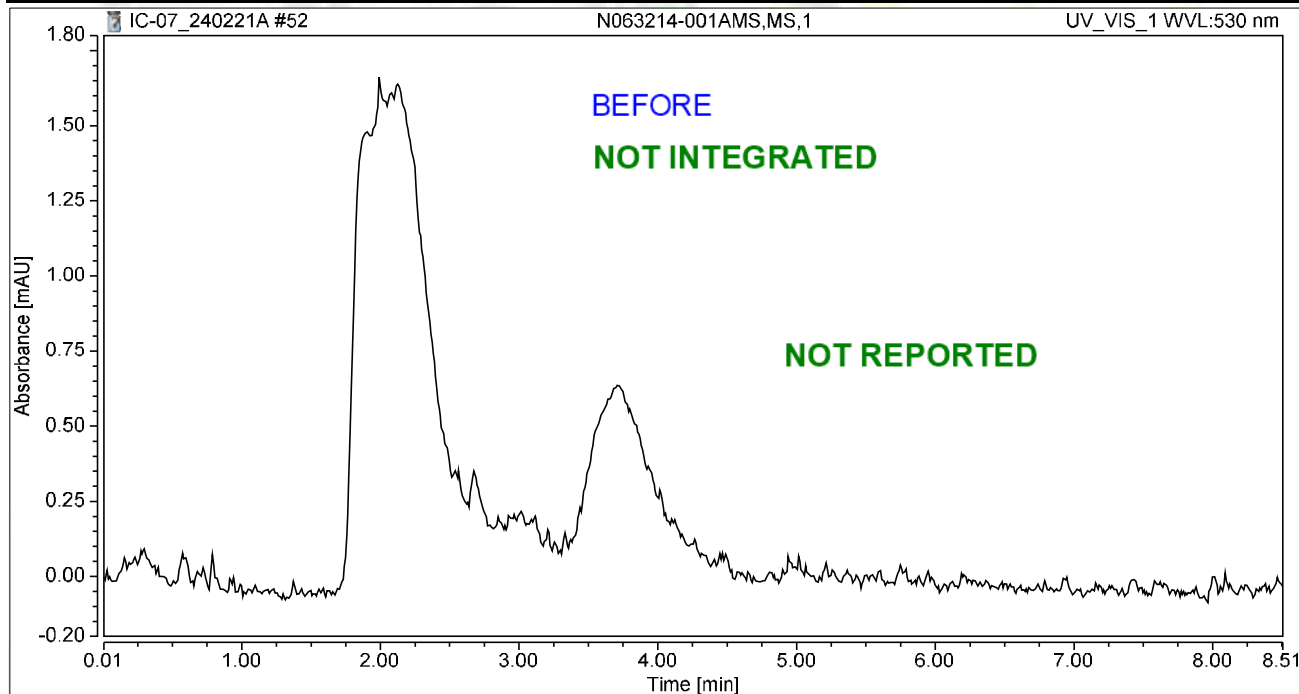
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.715	0.278	0.580	100.00	100.00	1.2930
Total:			0.278	0.580	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

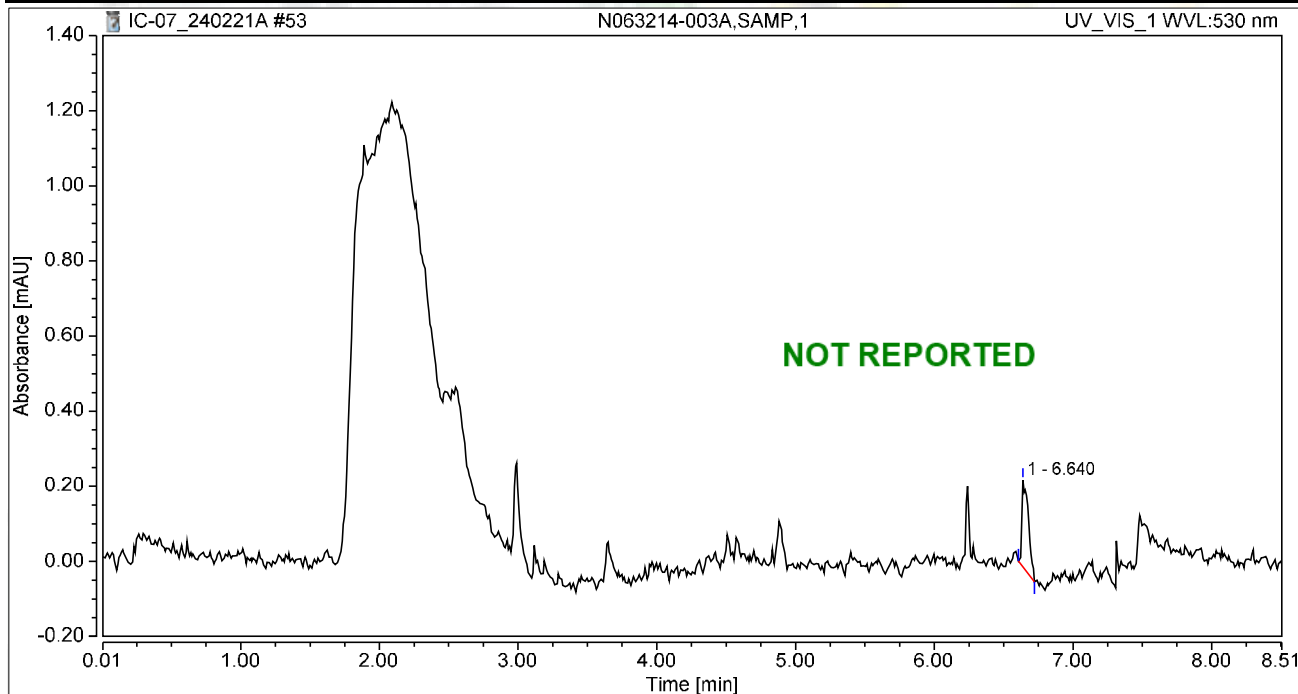
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:05	Sample Weight:	1.0000

Chromatogram



Integration Results

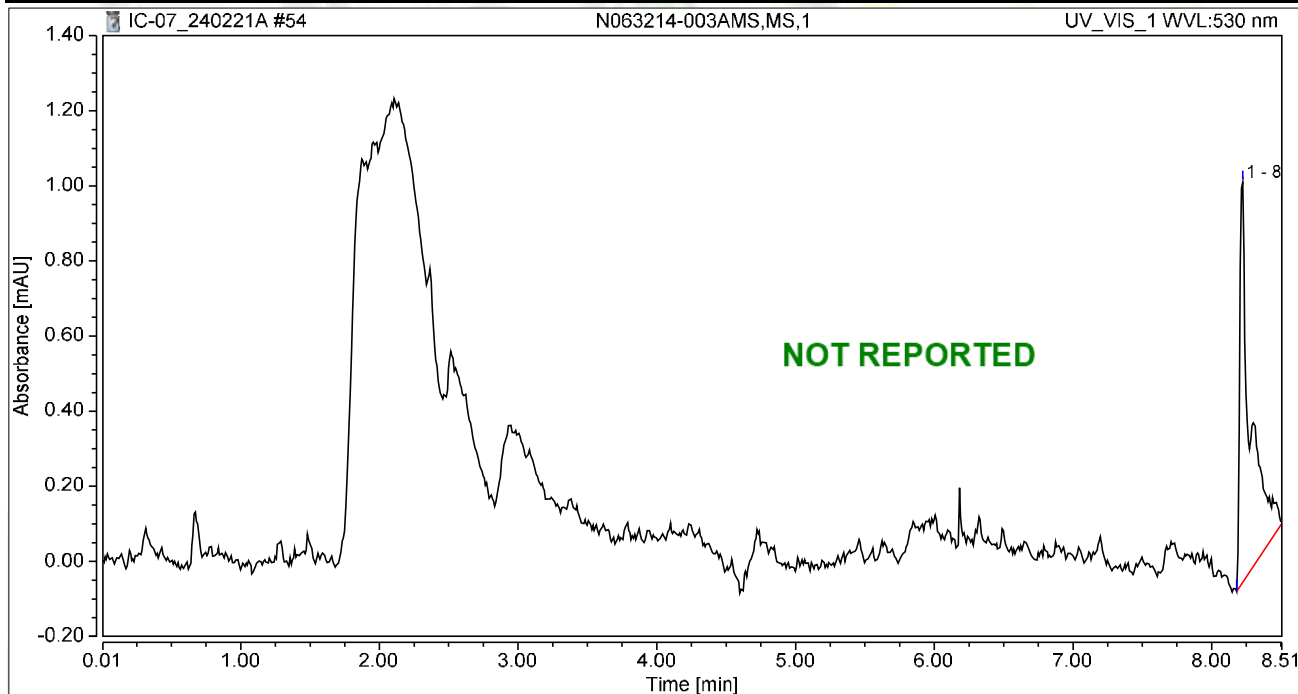
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.640	0.012	0.231	100.00	100.00	n.a.
Total:			0.012	0.231	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:15	Sample Weight:	1.0000

Chromatogram



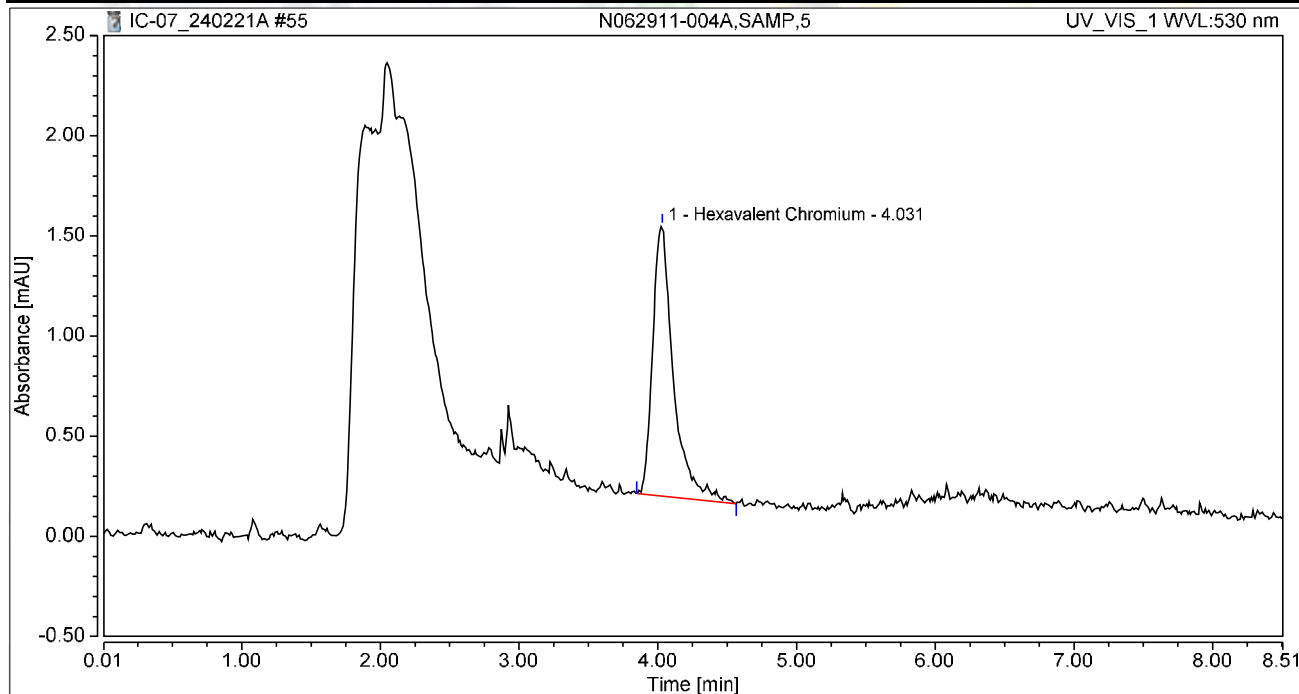
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		8.223	0.095	1.066	100.00	100.00	n.a.
Total:			0.095	1.066	100.00	100.00	

Chromatogram and Results

Injection Details		N062911-004,AMS,MS,5
Injection Name:	N062911-004A,SAMP,5	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 17:24	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.233	1.350	100.00	100.00	1.0848
Total:			0.233	1.350	100.00	100.00	

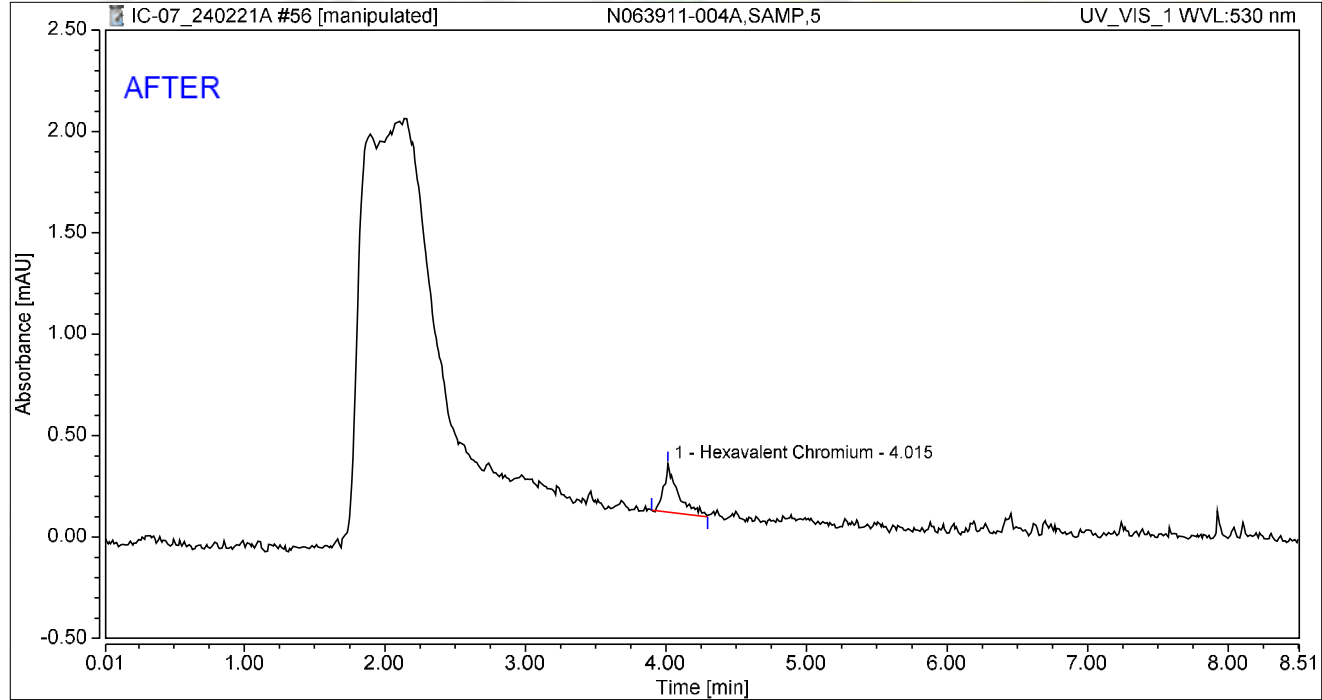
jrb

2/27/2024
for RBA

Chromatogram and Results

Injection Details		N062911-004A	
Injection Name:	N063911-004A ,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:34	Sample Weight:	1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.027	0.238	100.00	100.00	0.1273
Total:			0.027	0.238	100.00	100.00	

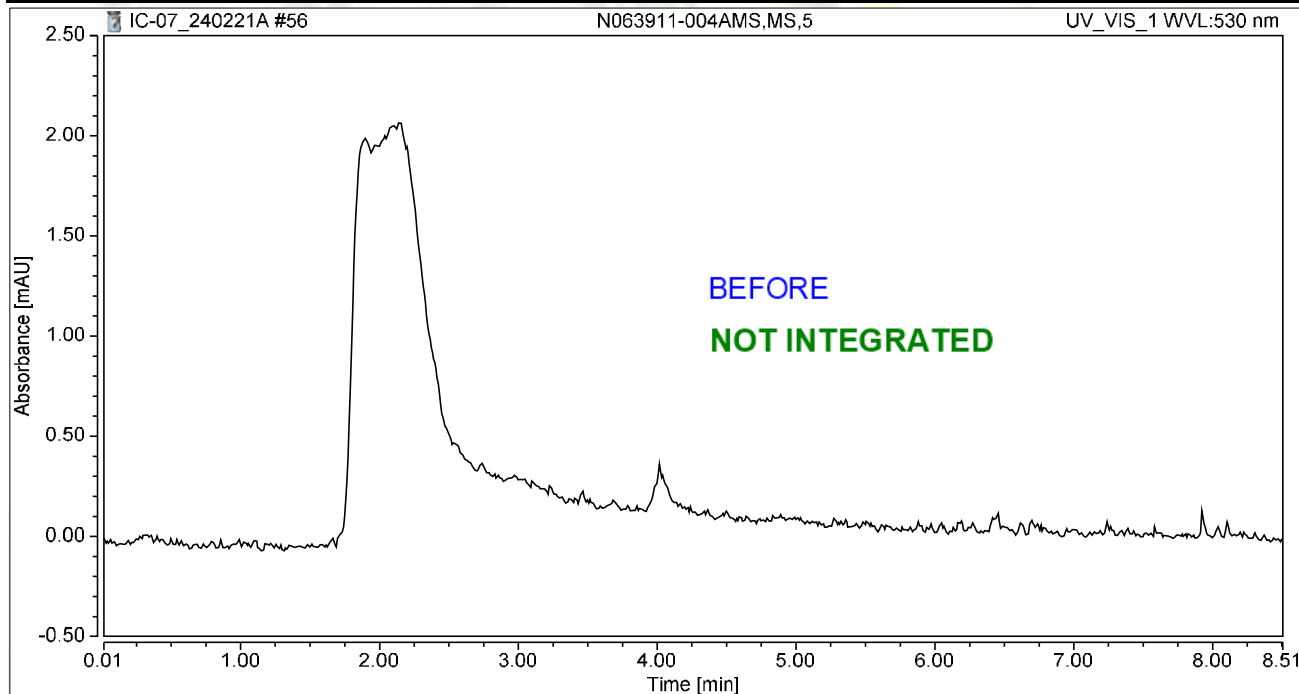
Reviewed by:

JRB 2/27/2024

Chromatogram and Results

Injection Details		N062911-004A,SAMP,5	
Injection Name:	N063911-004AMS,MS,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:34	Sample Weight:	1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

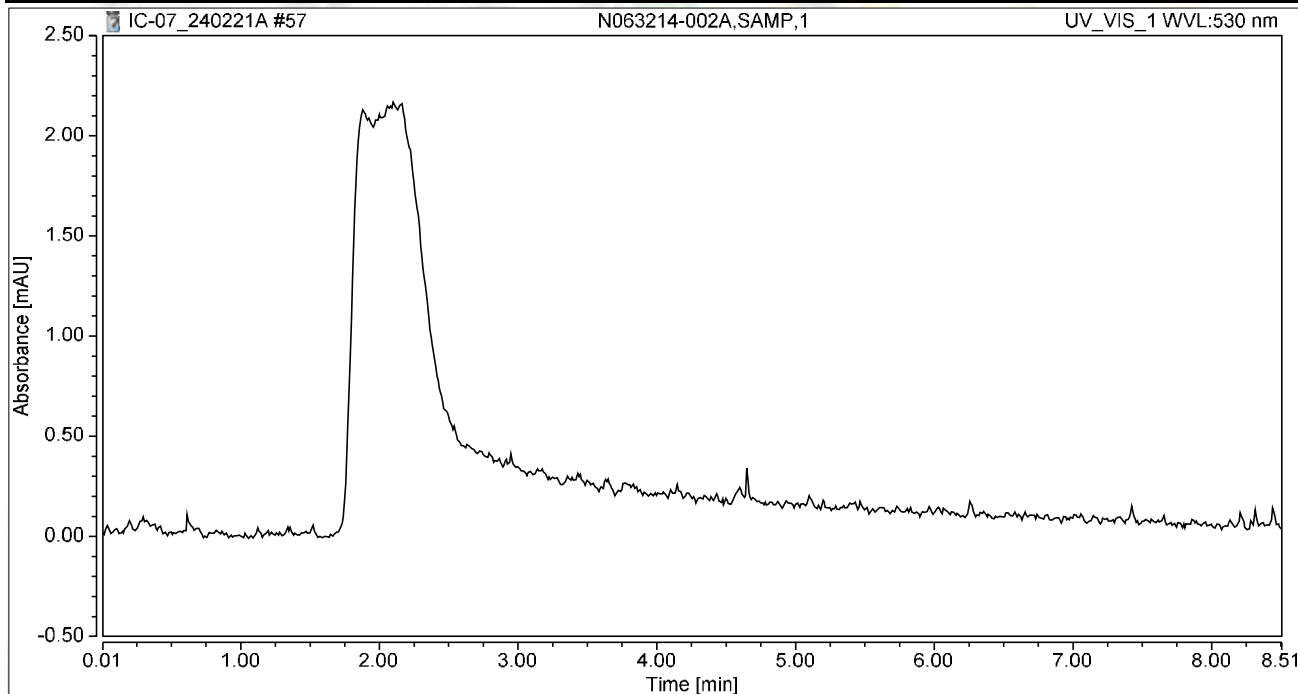
2/27/2024
 for RBA

Chromatogram and Results

Injection Details

Injection Name:	N063214-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:43	Sample Weight:	1.0000

Chromatogram



Integration Results

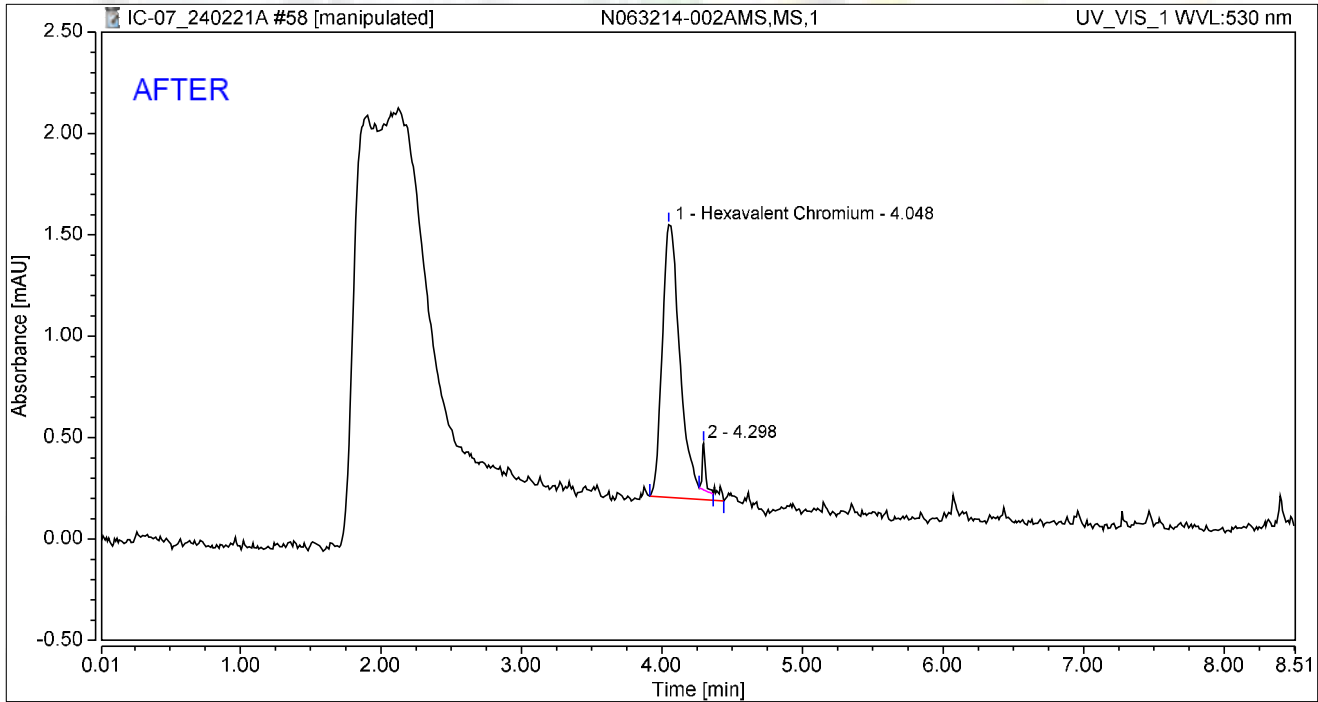
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.203	1.345	96.84	85.42	0.9454
2		4.298	0.007	0.229	3.16	14.58	n.a.
Total:			0.210	1.575	100.00	100.00	

Reviewed by:

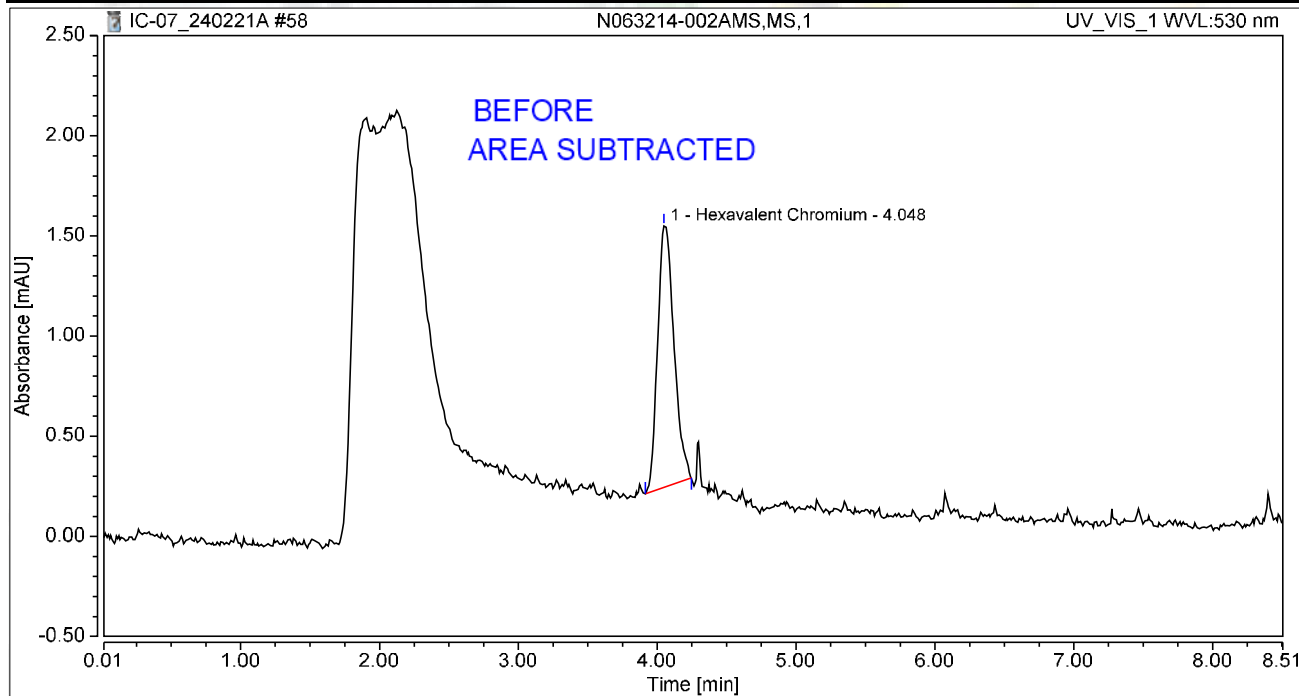
JRB 2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063214-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 17:52	Sample Weight:	1.0000

Chromatogram



Integration Results

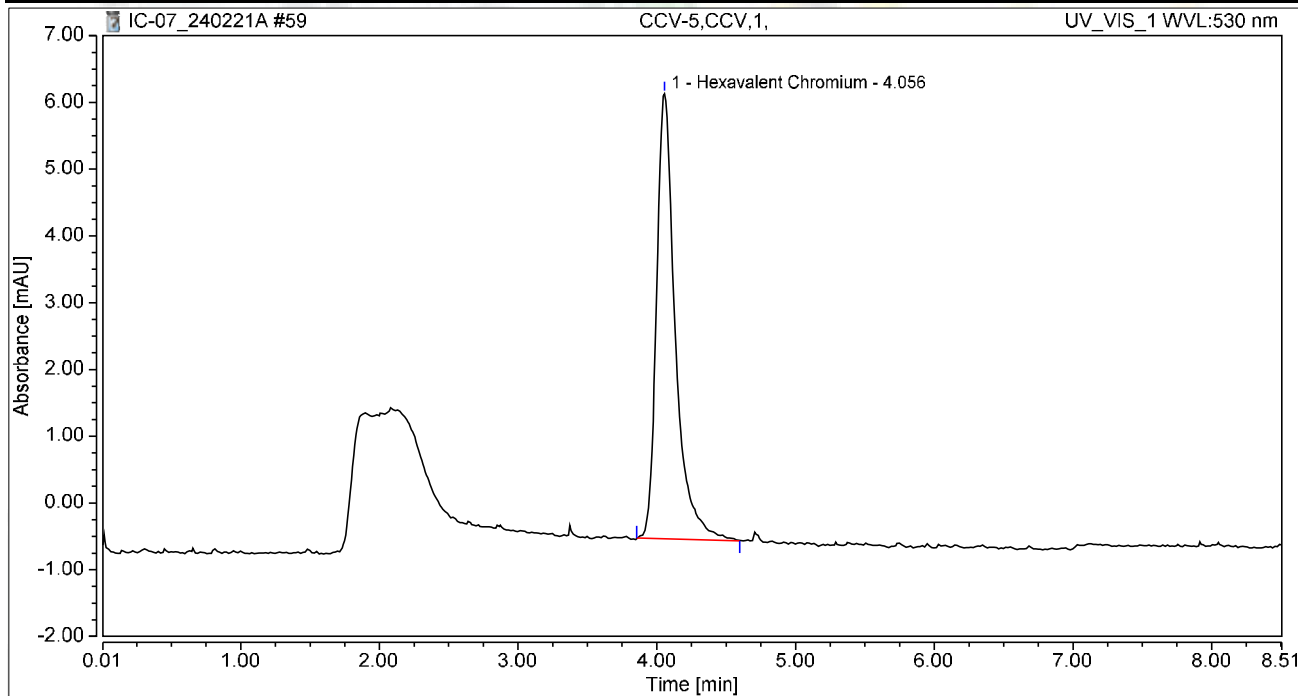
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.179	1.307	100.00	100.00	0.8299
Total:			0.179	1.307	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:02	Sample Weight:	1.0000

Chromatogram



Integration Results

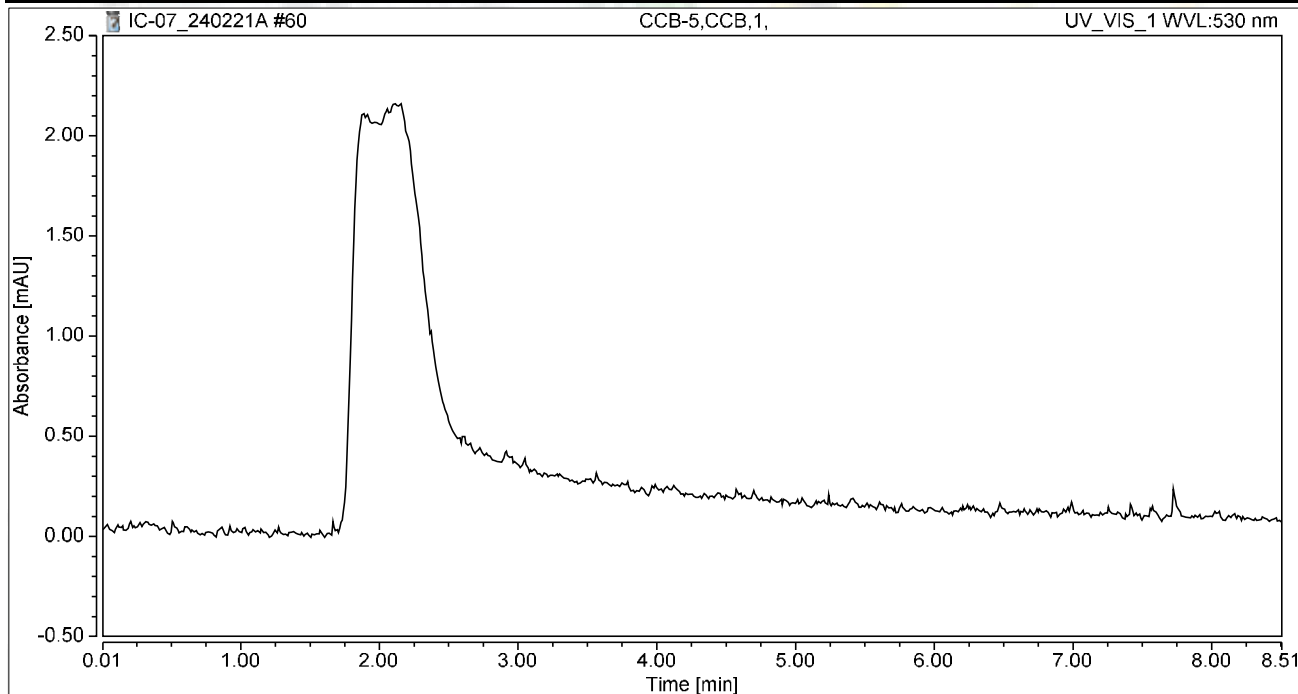
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.046	6.670	100.00	100.00	4.8634
Total:			1.046	6.670	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:11	Sample Weight:	1.0000

Chromatogram



Integration Results

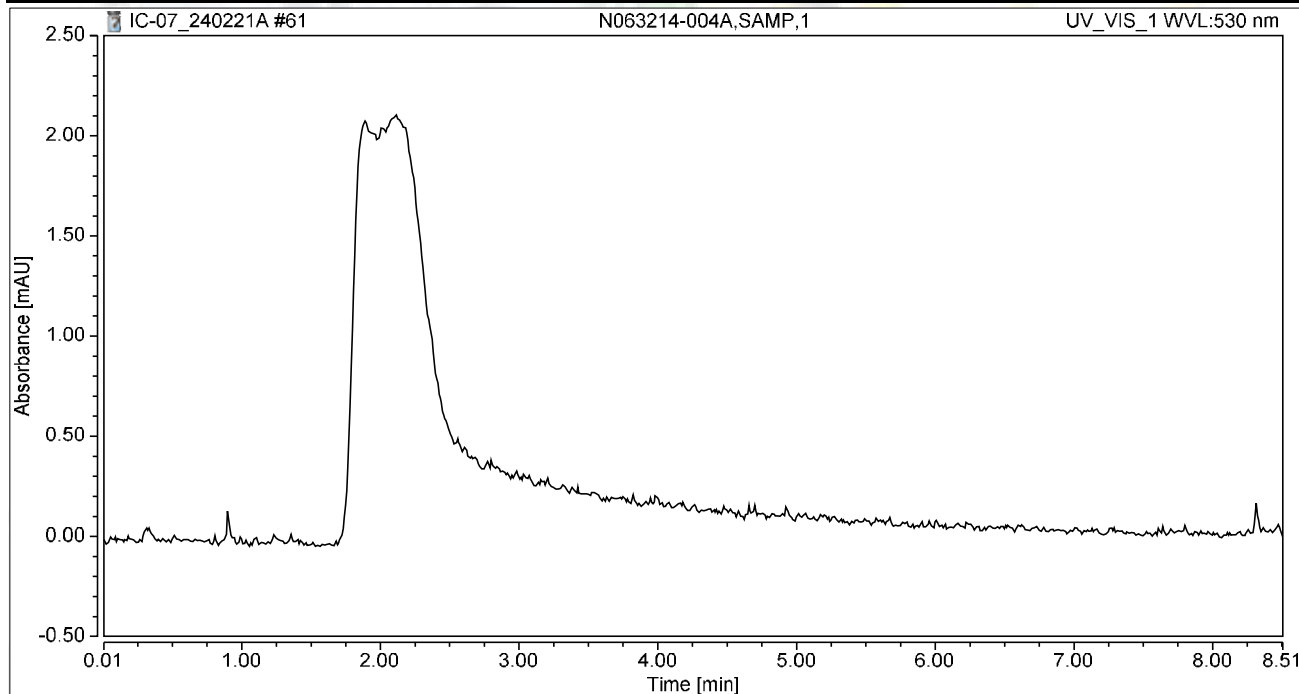
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:21	Sample Weight:	1.0000

Chromatogram



Integration Results

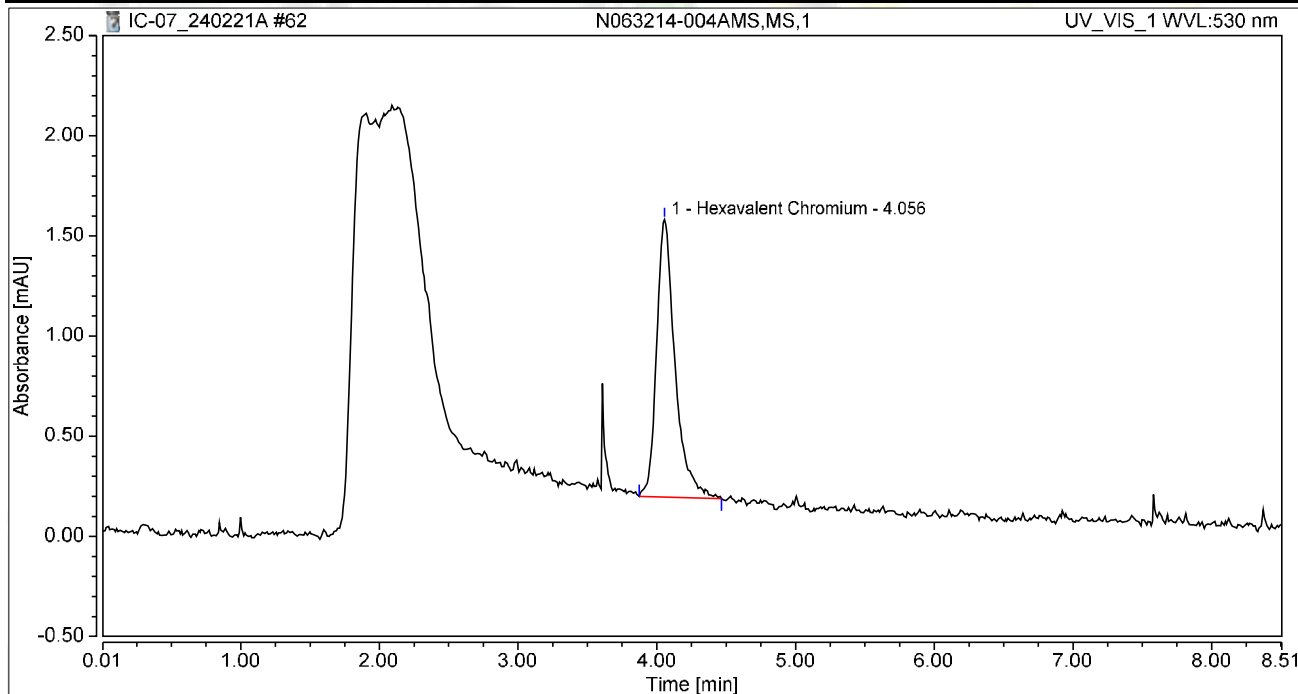
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:30	Sample Weight:	1.0000

Chromatogram



Integration Results

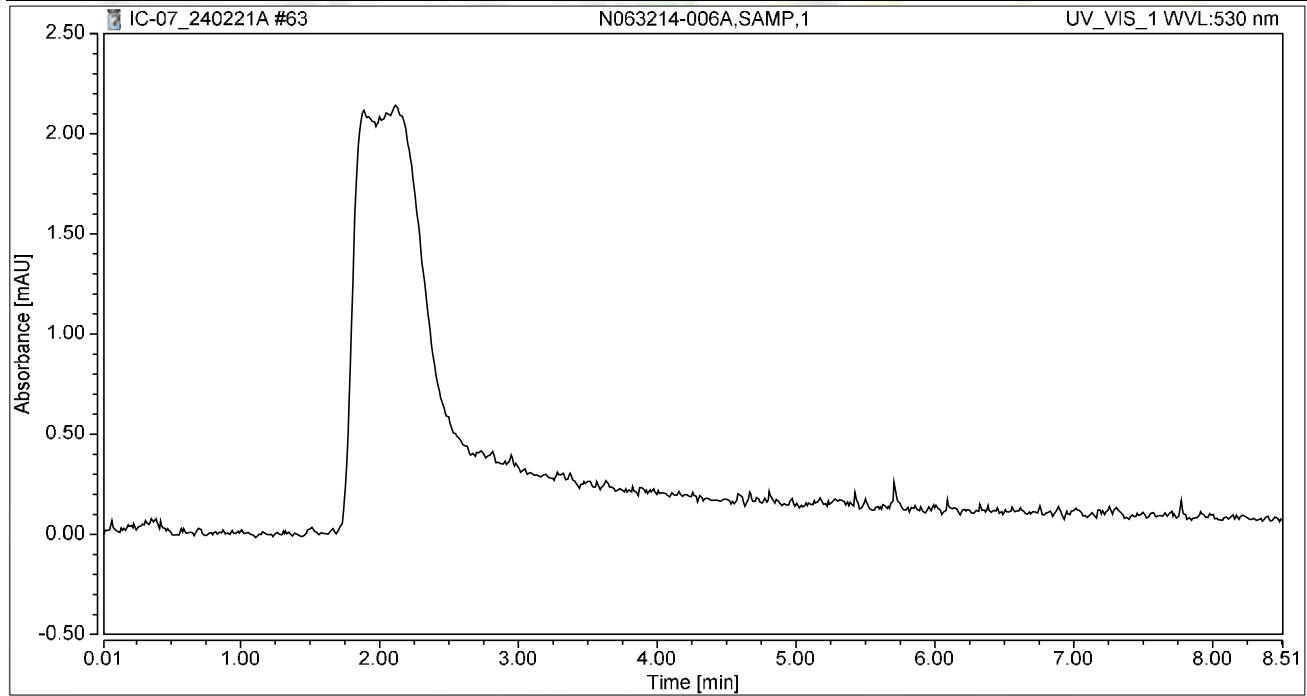
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.213	1.386	100.00	100.00	0.9919
Total:			0.213	1.386	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:40	Sample Weight:	1.0000

Chromatogram



Integration Results

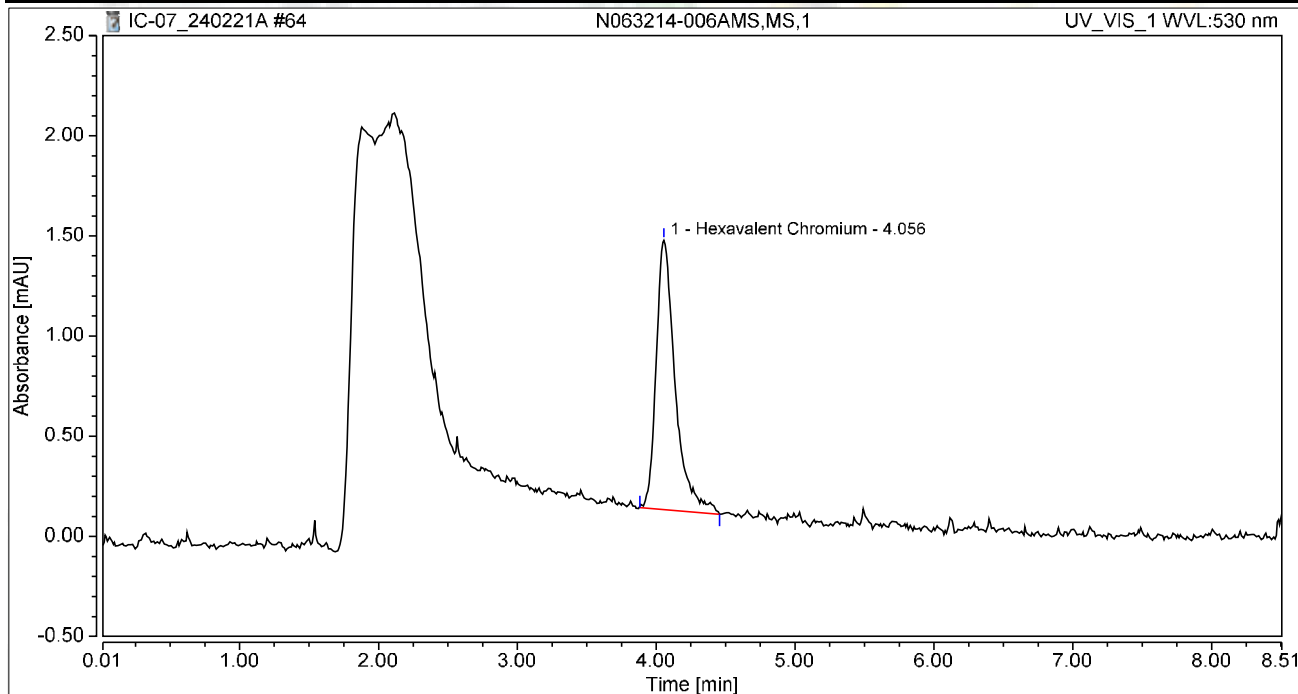
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:49	Sample Weight:	1.0000

Chromatogram



Integration Results

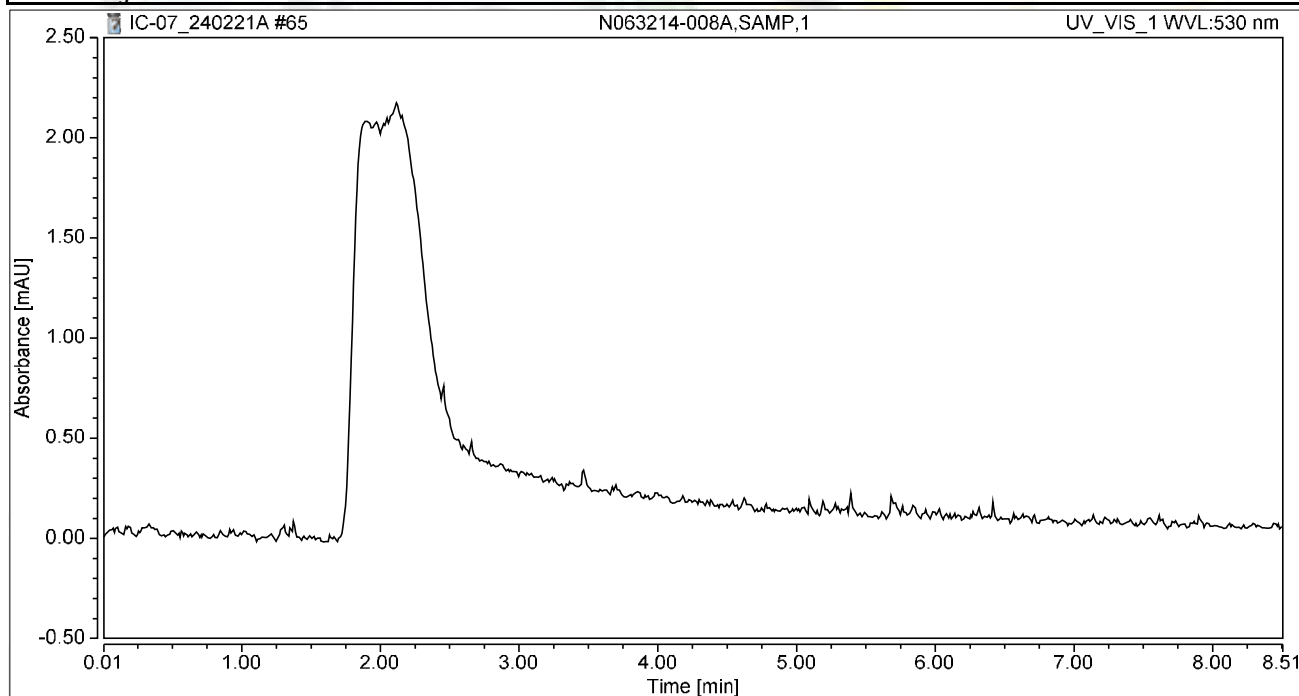
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.214	1.346	100.00	100.00	0.9948
Total:			0.214	1.346	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 18:59	Sample Weight:	1.0000

Chromatogram



Integration Results

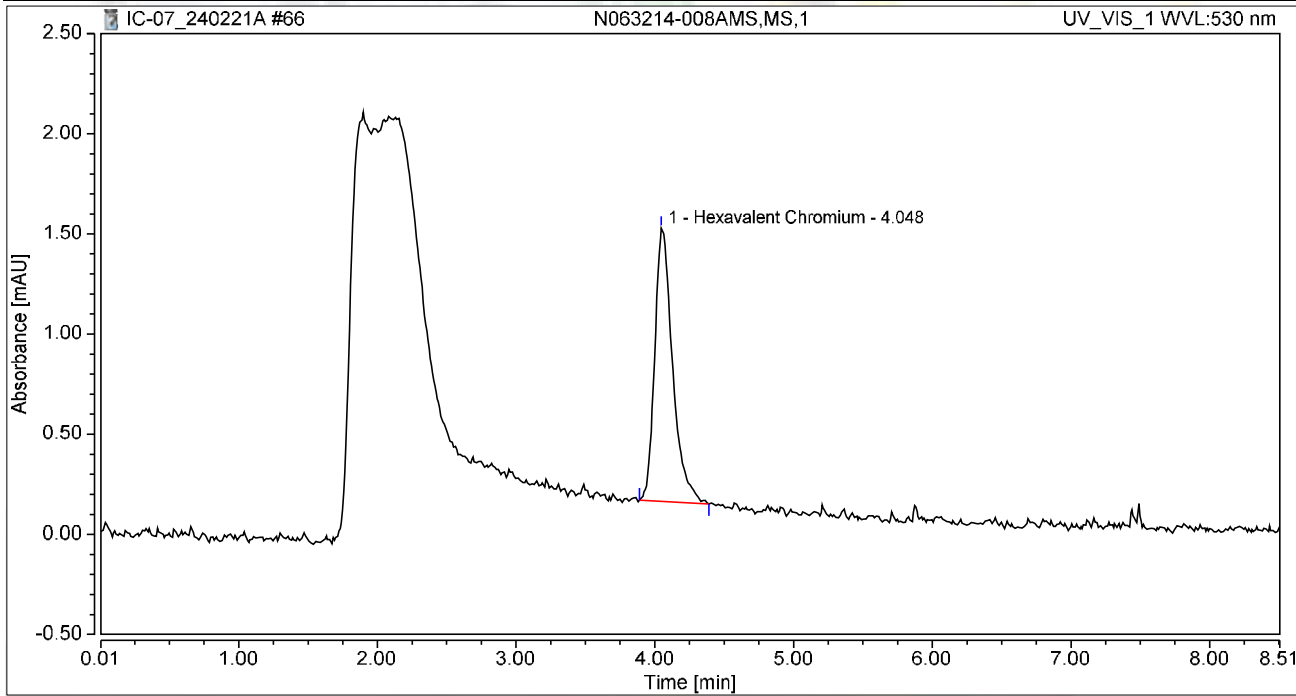
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:08	Sample Weight:	1.0000

Chromatogram



Integration Results

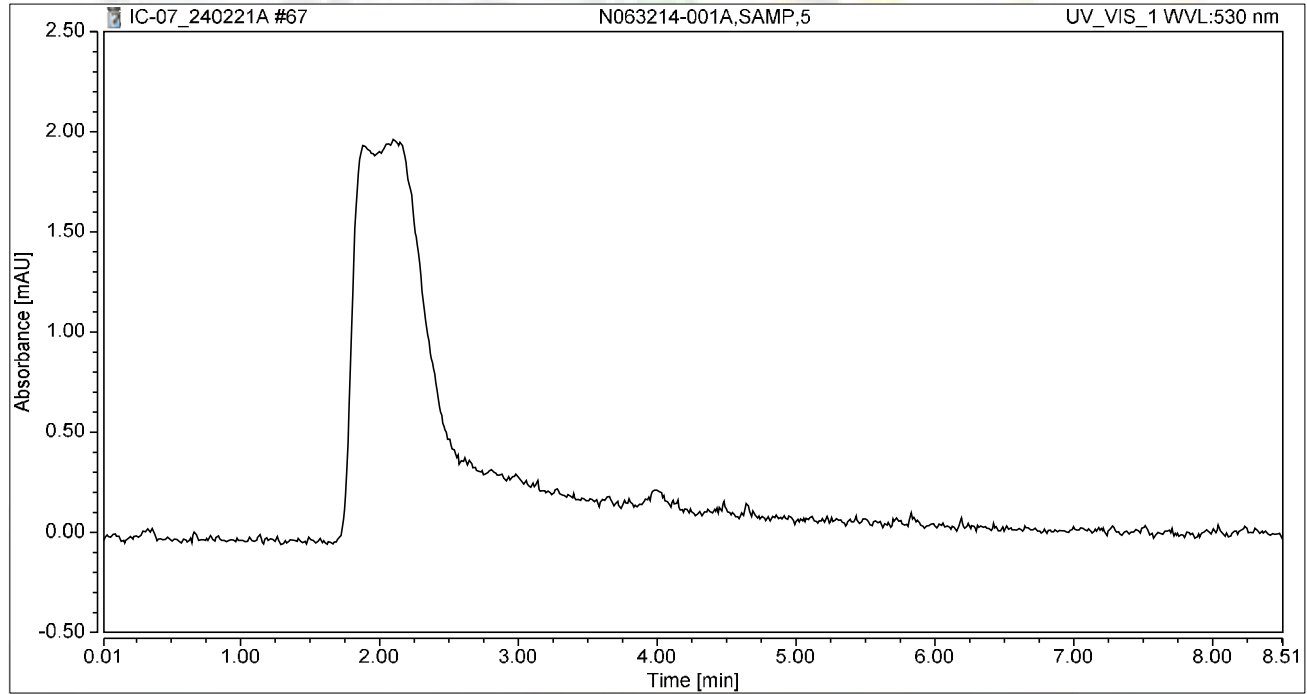
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.204	1.364	100.00	100.00	0.9475
Total:			0.204	1.364	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:18	Sample Weight:	1.0000

Chromatogram



Integration Results

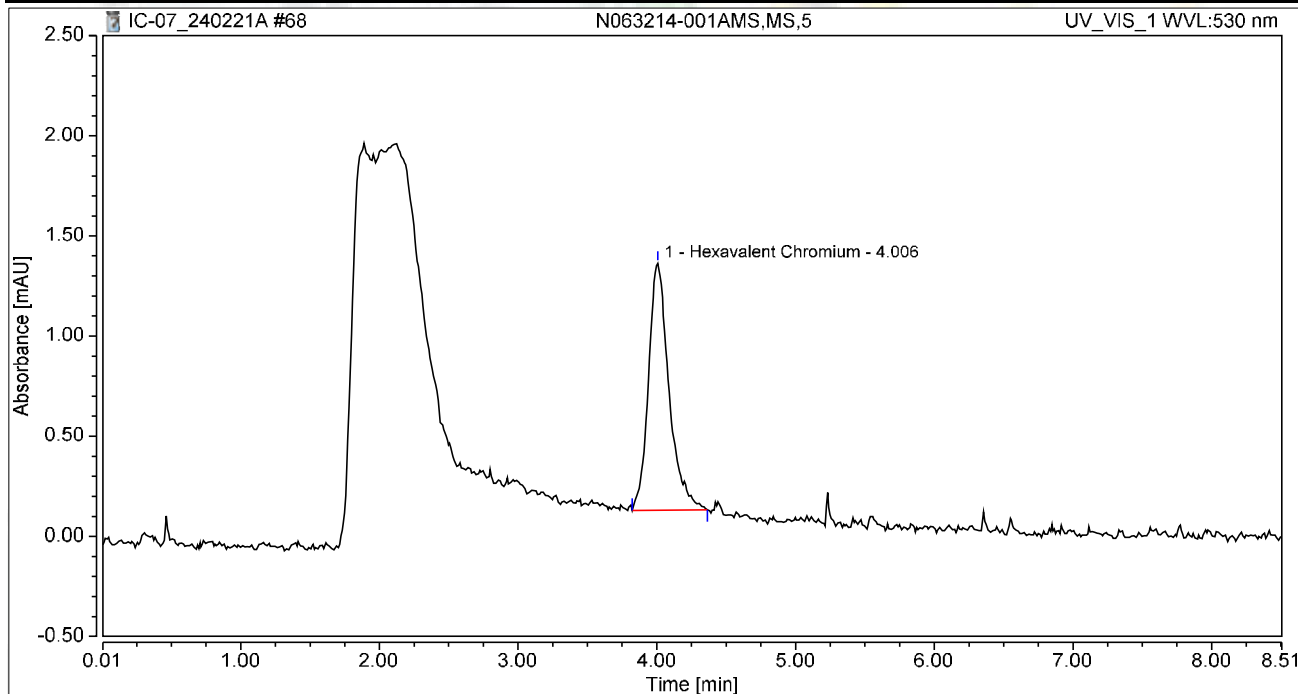
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:27	Sample Weight:	1.0000

Chromatogram



Integration Results

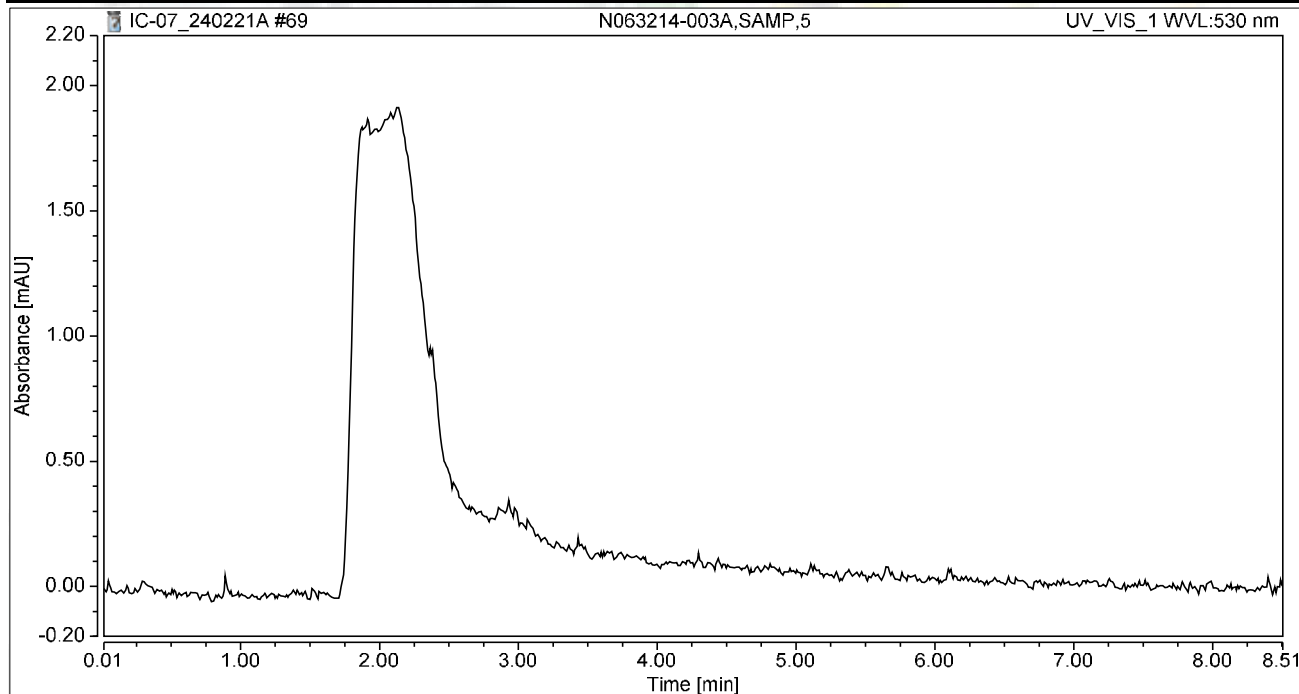
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.211	1.232	100.00	100.00	0.9789
Total:			0.211	1.232	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:37	Sample Weight:	1.0000

Chromatogram



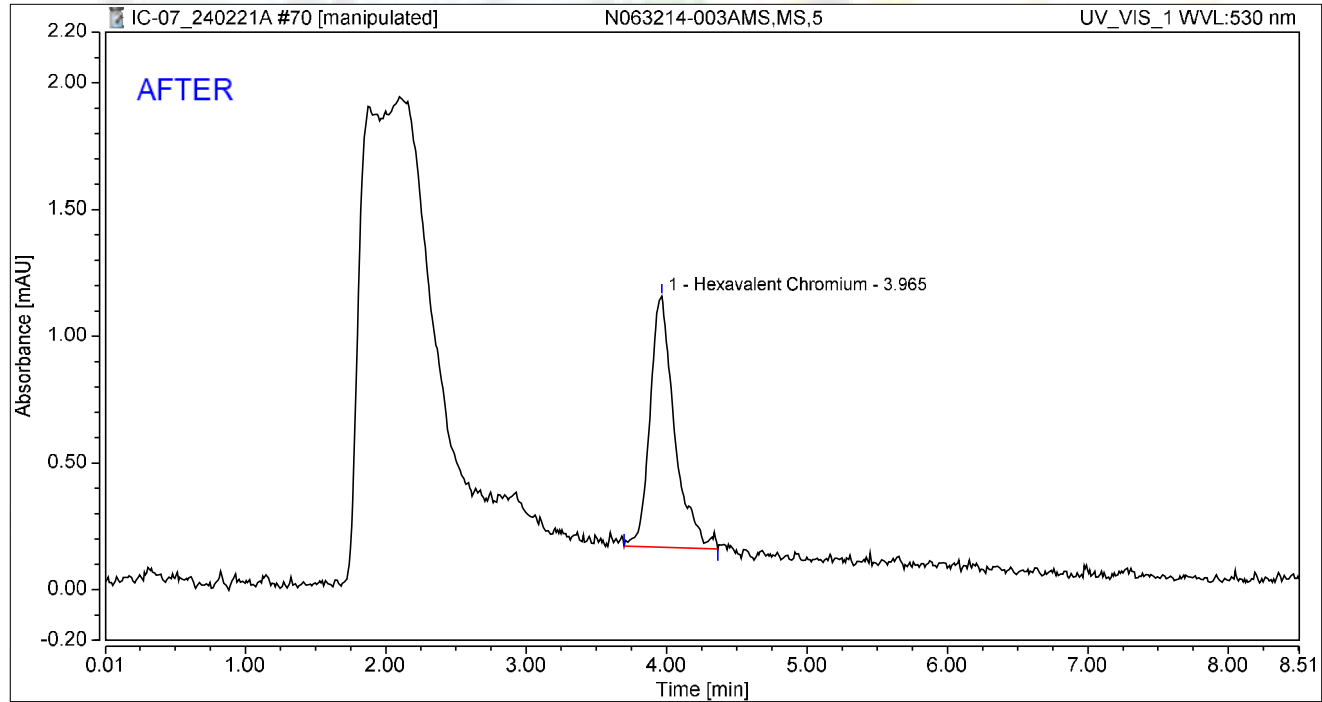
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063214-003AMS,MS,5	Run Time (min): 8.50
Vial Number:	19	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 19:46	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.200	0.990	100.00	100.00	0.9278
Total:			0.200	0.990	100.00	100.00	

Reviewed by:

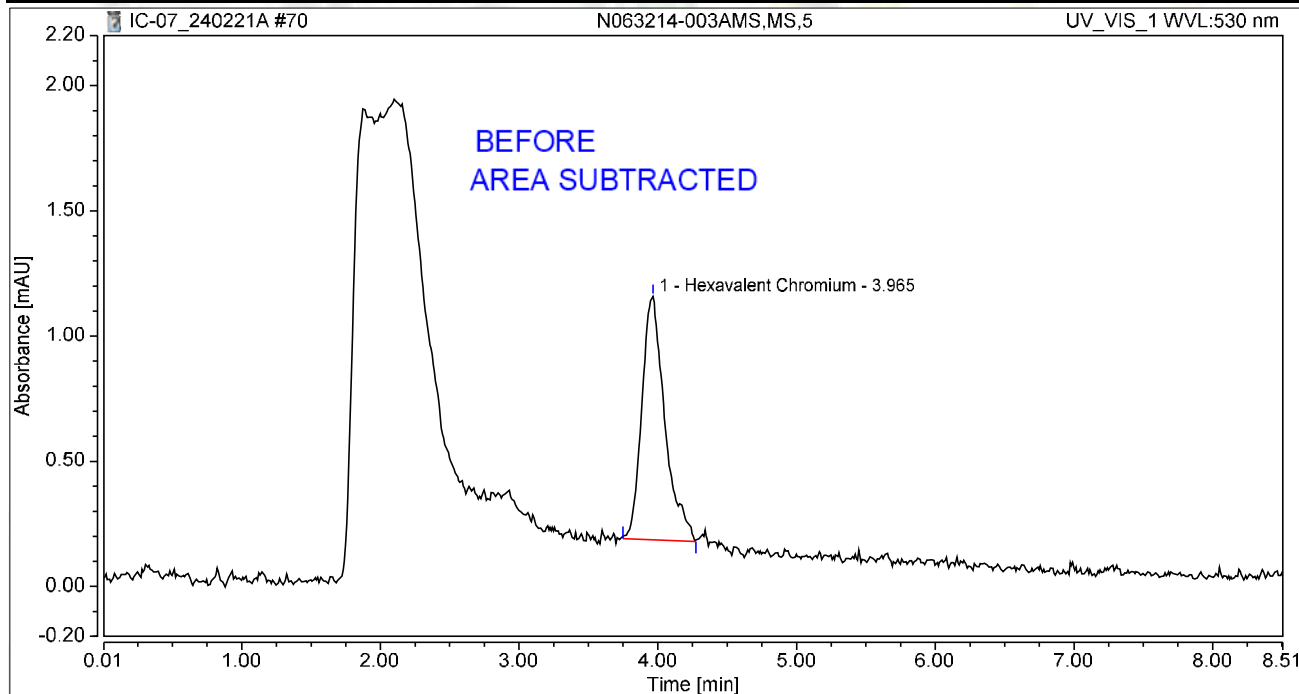
JRB 2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063214-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:46	Sample Weight:	1.0000

Chromatogram



Integration Results

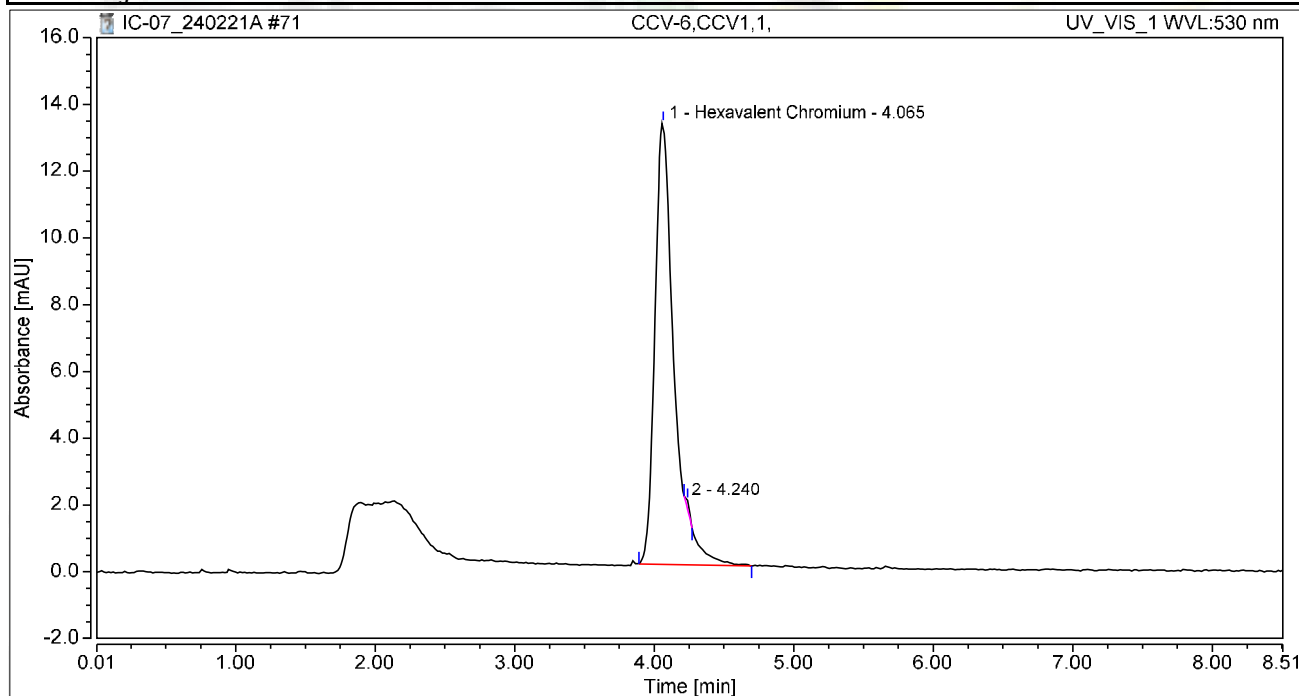
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.965	0.186	0.971	100.00	100.00	0.8653
Total:			0.186	0.971	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 19:55	Sample Weight:	1.0000

Chromatogram



Integration Results

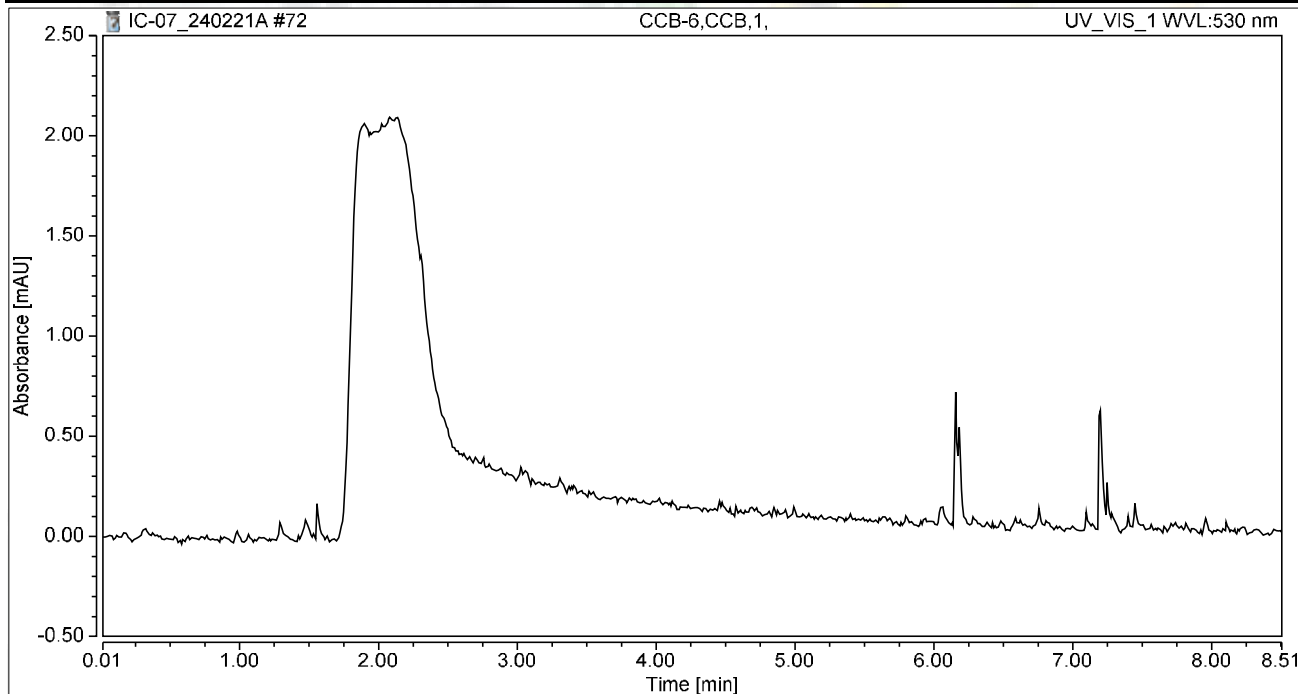
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.065	2.100	13.209	99.61	97.89	9.7638
2		4.240	0.008	0.285	0.39	2.11	n.a.
Total:			2.108	13.494	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:05	Sample Weight:	1.0000

Chromatogram



Integration Results

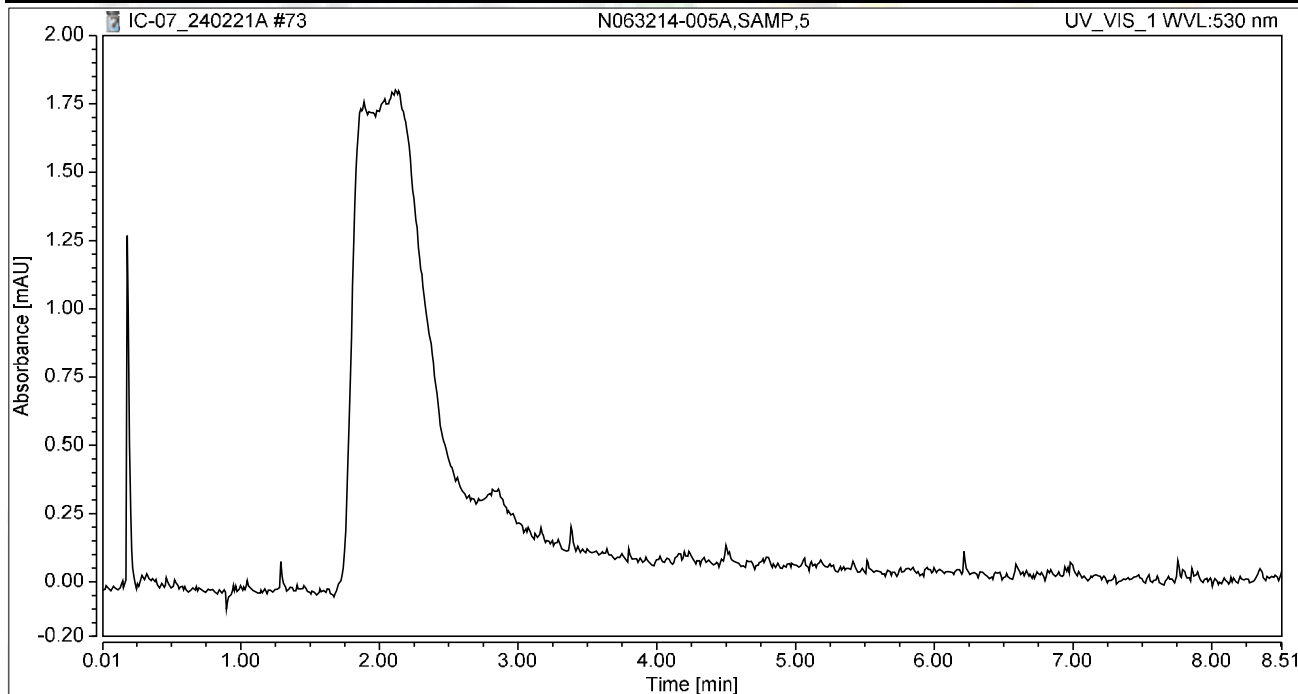
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:14	Sample Weight:	1.0000

Chromatogram



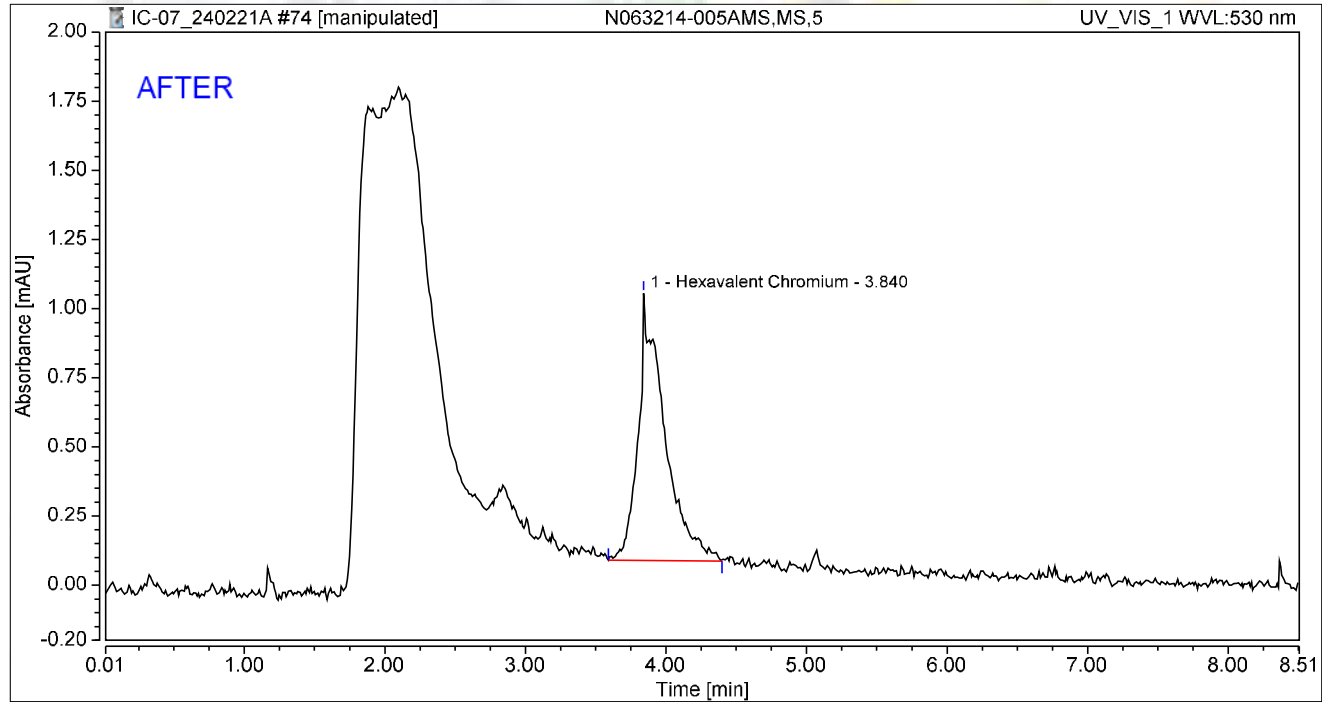
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063214-005AMS,MS,5	Run Time (min): 8.49
Vial Number:	23	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	21/Feb/24 20:24	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.210	0.967	100.00	100.00	0.9758
Total:			0.210	0.967	100.00	100.00	

Reviewed by:

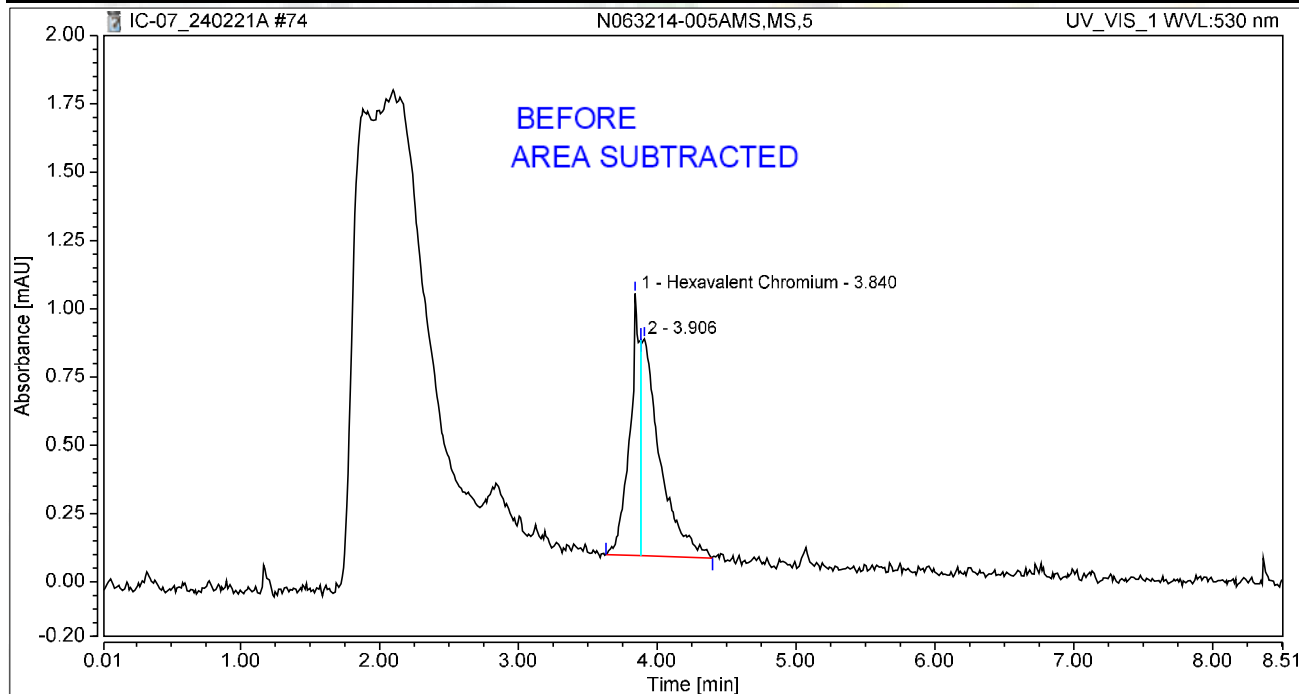
JRB 2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	N063214-005AMS,MS,5	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:24	Sample Weight:	1.0000

Chromatogram



Integration Results

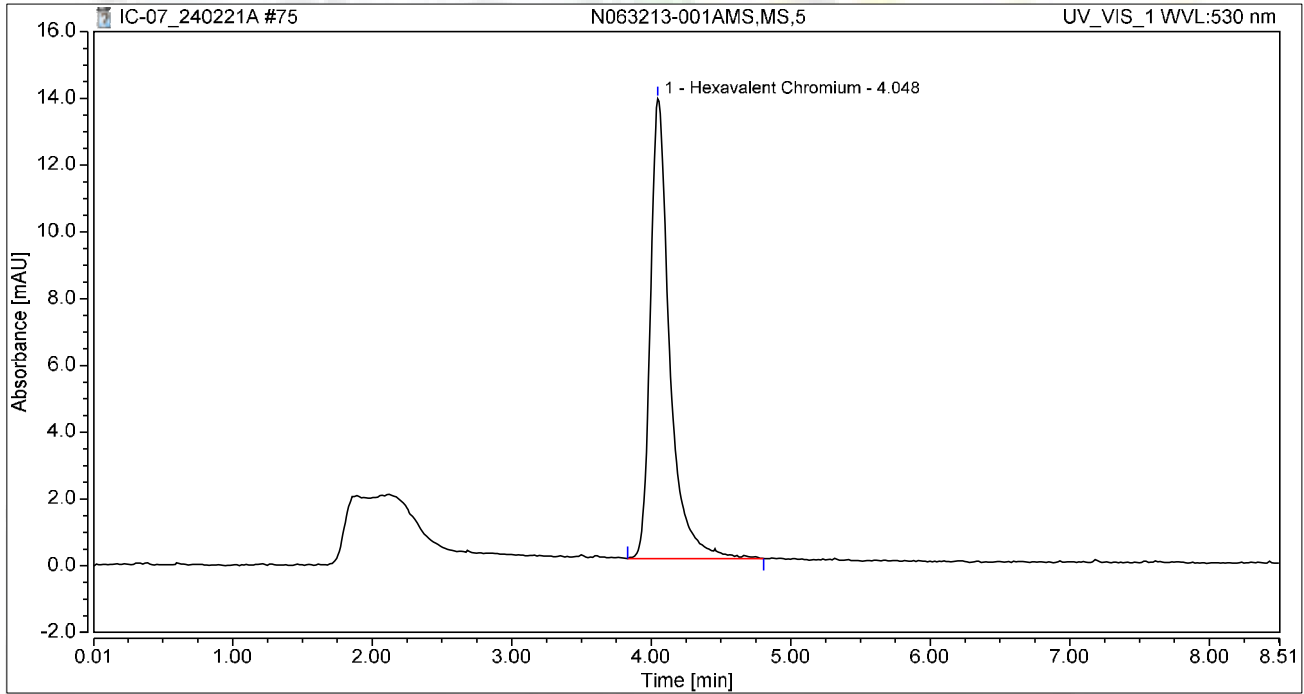
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.840	0.078	0.959	38.16	54.71	0.3646
2		3.906	0.127	0.794	61.84	45.29	n.a.
Total:			0.206	1.754	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:33	Sample Weight:	1.0000

Chromatogram



Integration Results

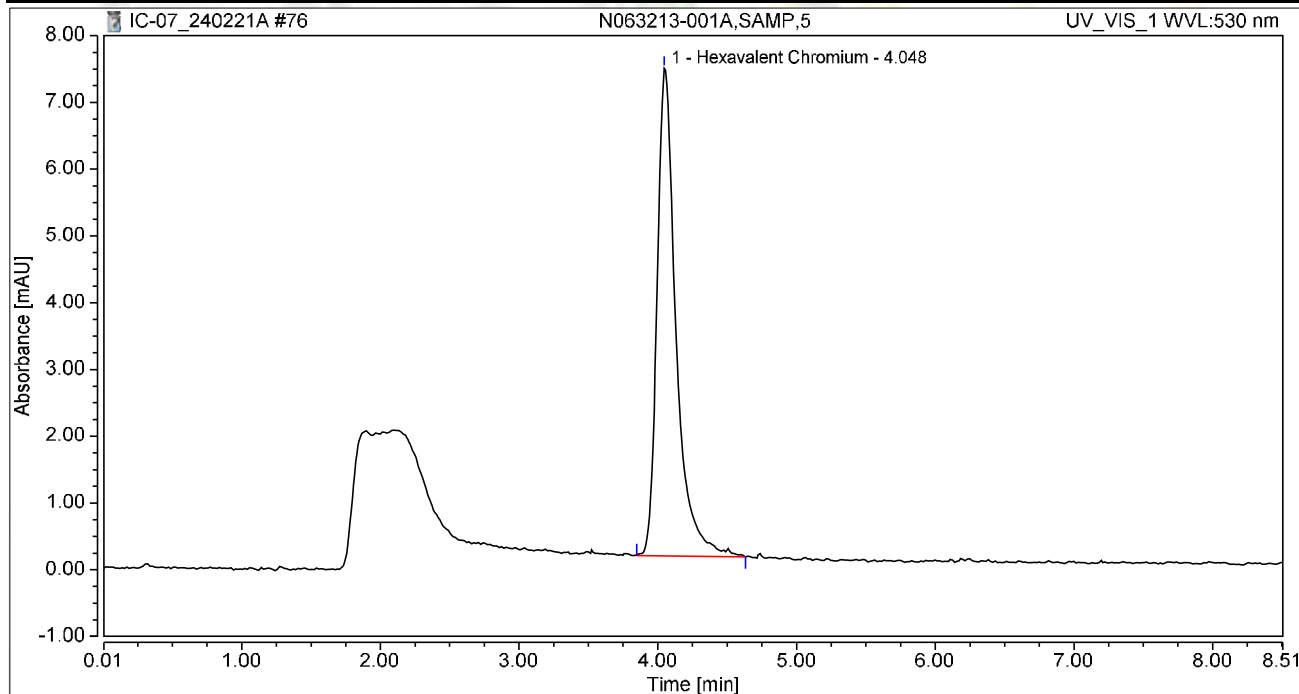
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.214	13.774	100.00	100.00	10.2944
Total:			2.214	13.774	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:43	Sample Weight:	1.0000

Chromatogram



Integration Results

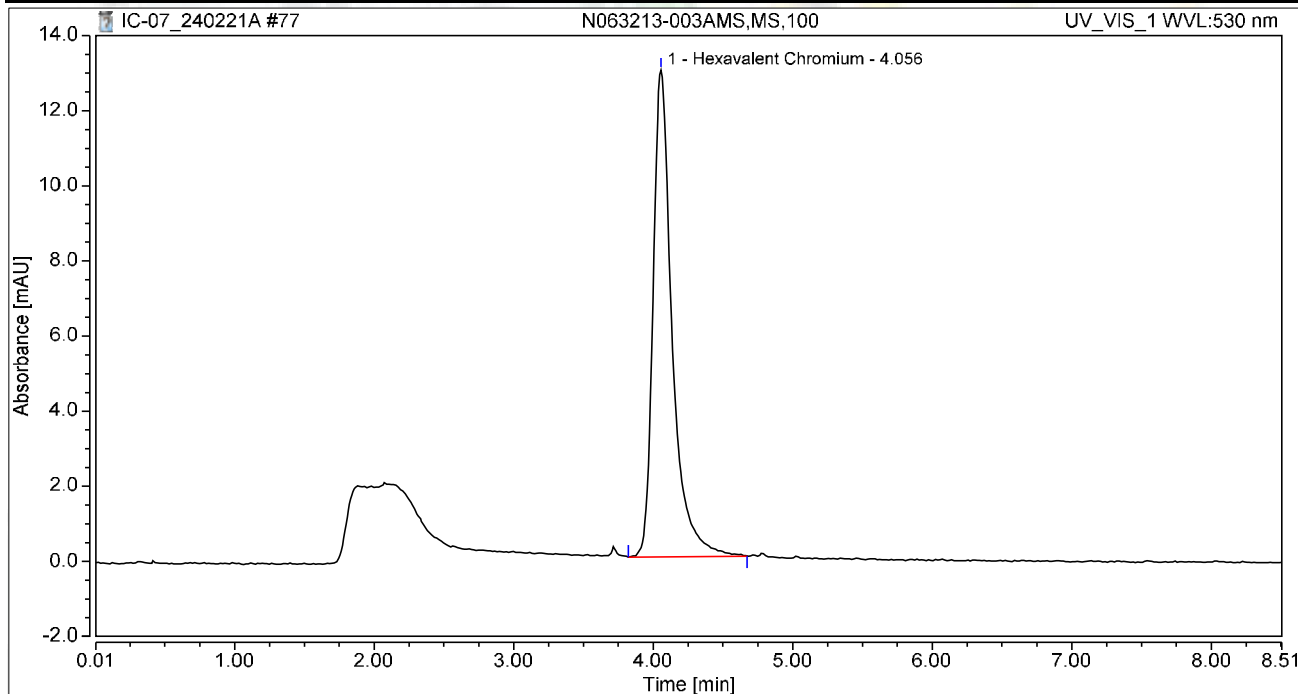
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.158	7.302	100.00	100.00	5.3824
Total:			1.158	7.302	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-003AMS,MS,100	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 20:52	Sample Weight:	1.0000

Chromatogram



Integration Results

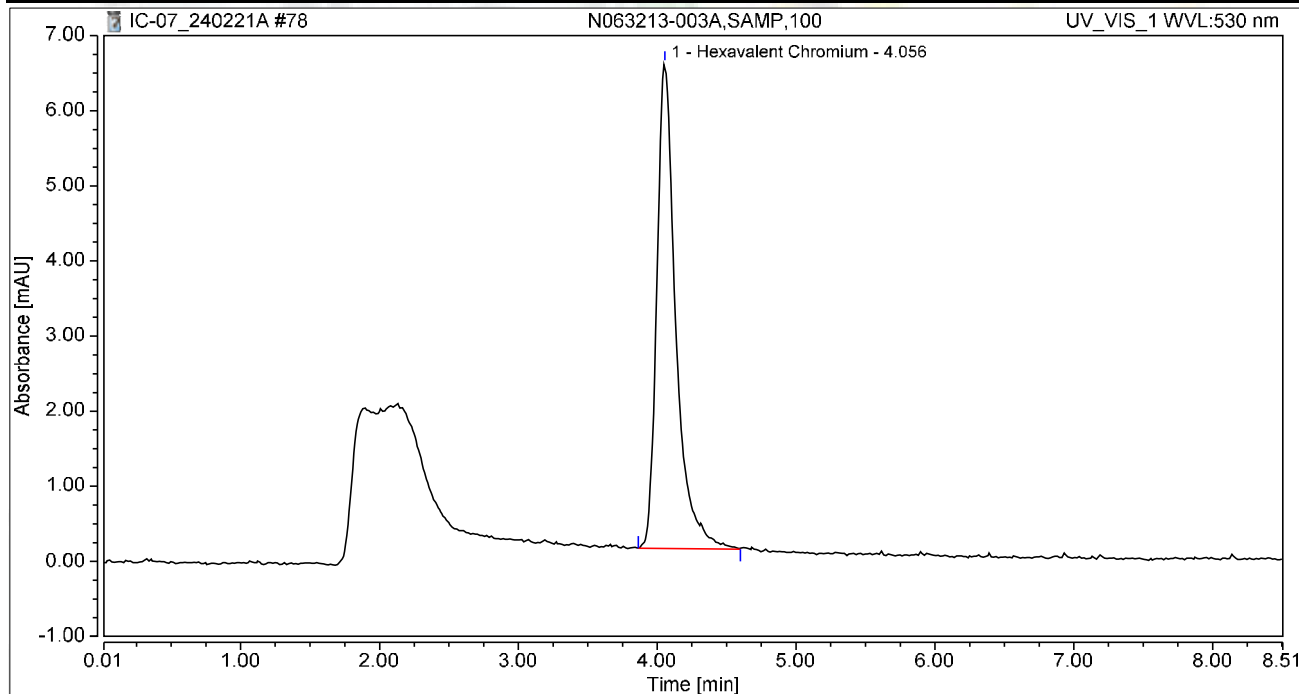
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	2.053	12.963	100.00	100.00	9.5441
Total:			2.053	12.963	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-003A,SAMP,100	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

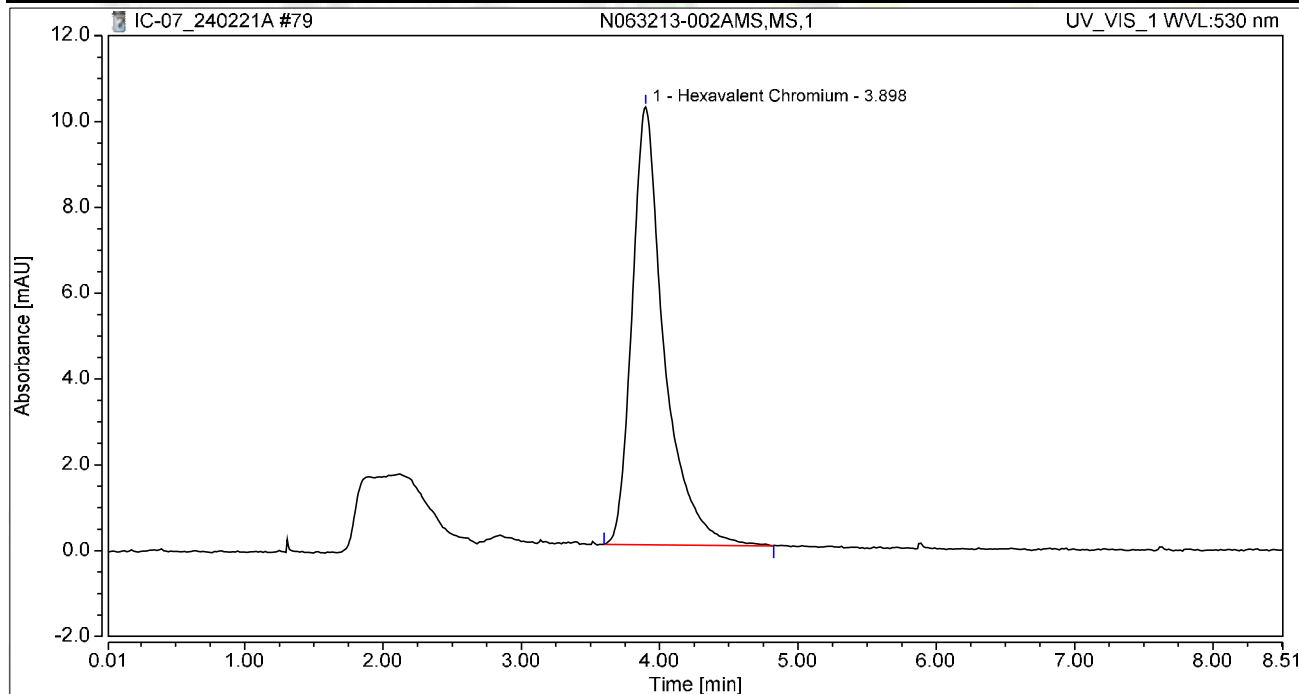
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.023	6.459	100.00	100.00	4.7580
Total:			1.023	6.459	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063213-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:11	Sample Weight:	1.0000

Chromatogram



Integration Results

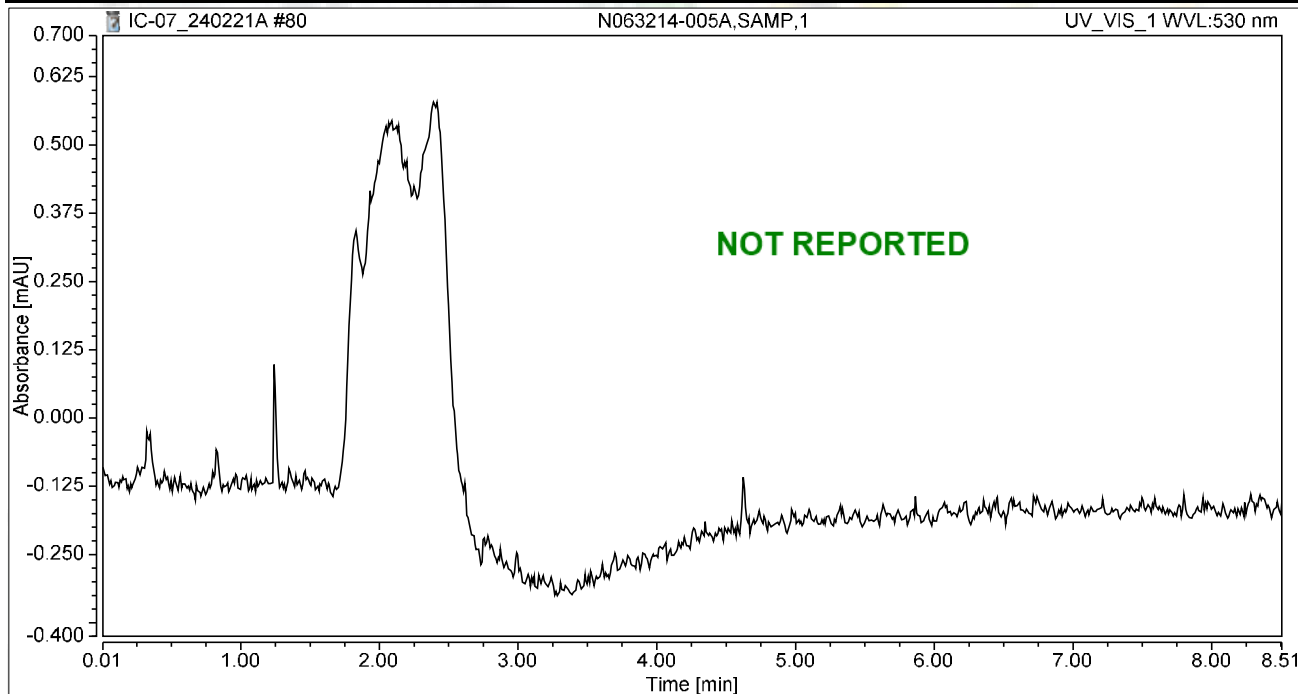
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	2.740	10.201	100.00	100.00	12.7372
Total:			2.740	10.201	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:21	Sample Weight:	1.0000

Chromatogram



Integration Results

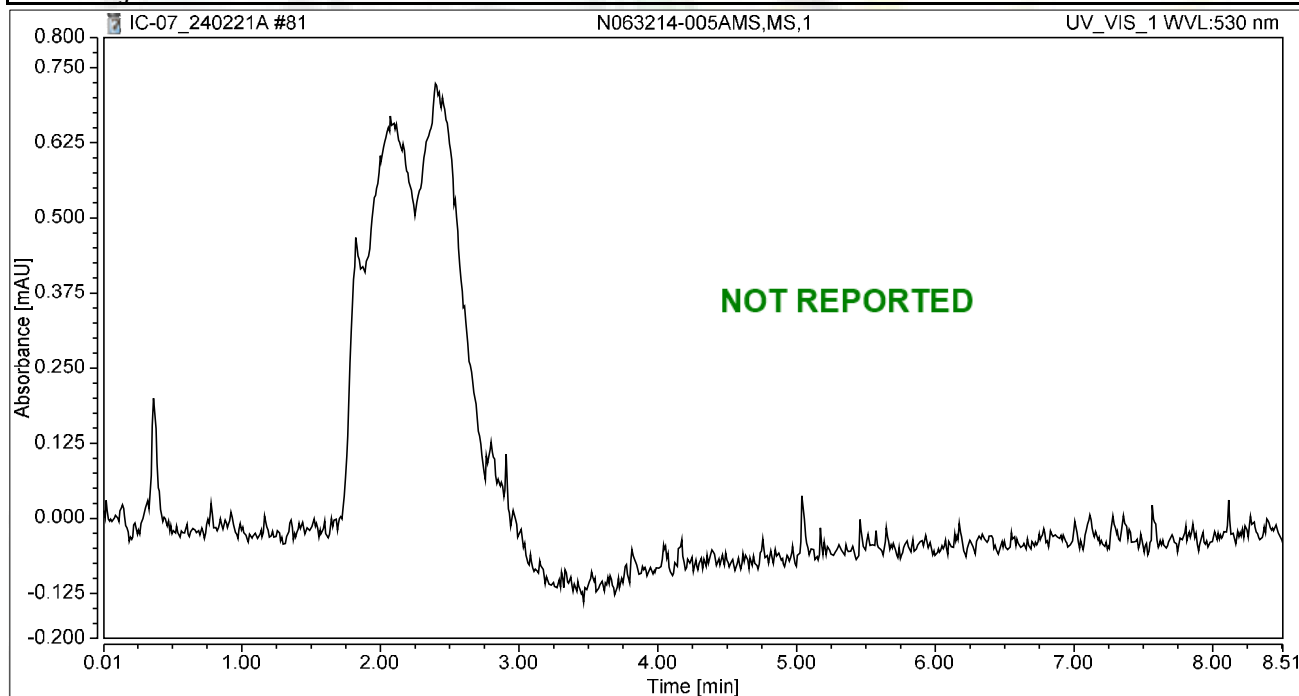
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063214-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:30	Sample Weight:	1.0000

Chromatogram



Integration Results

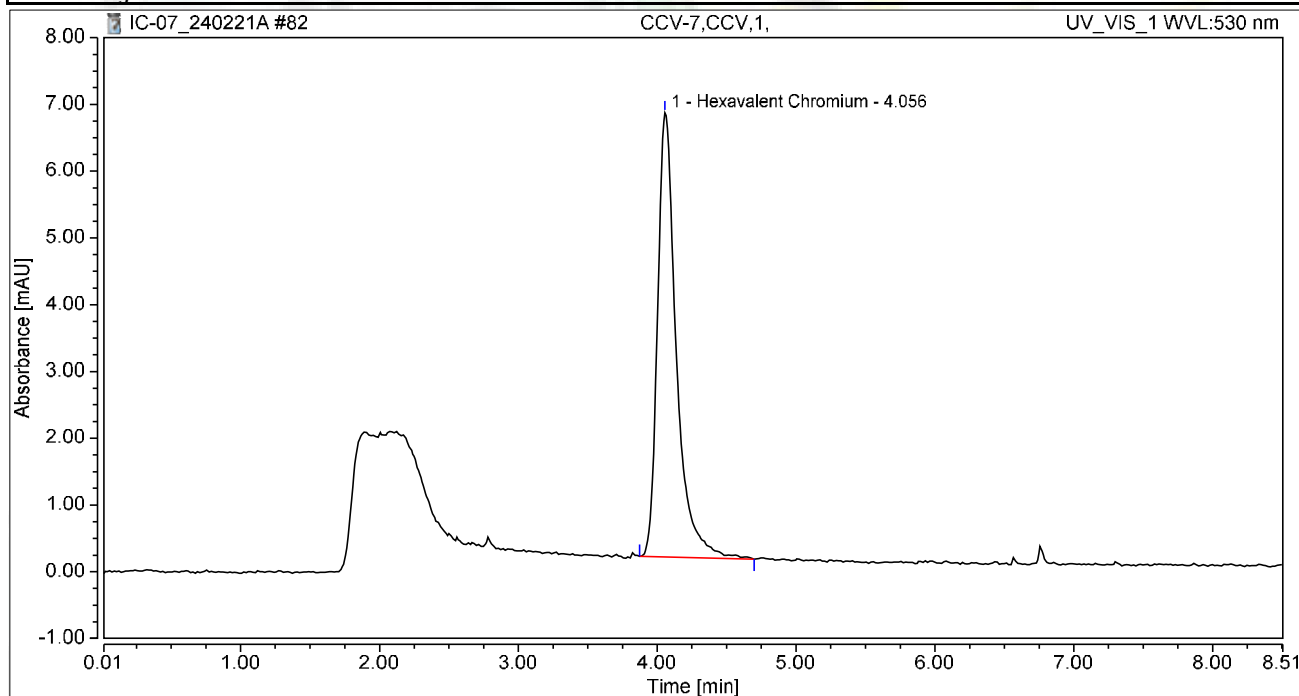
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:39	Sample Weight:	1.0000

Chromatogram



Integration Results

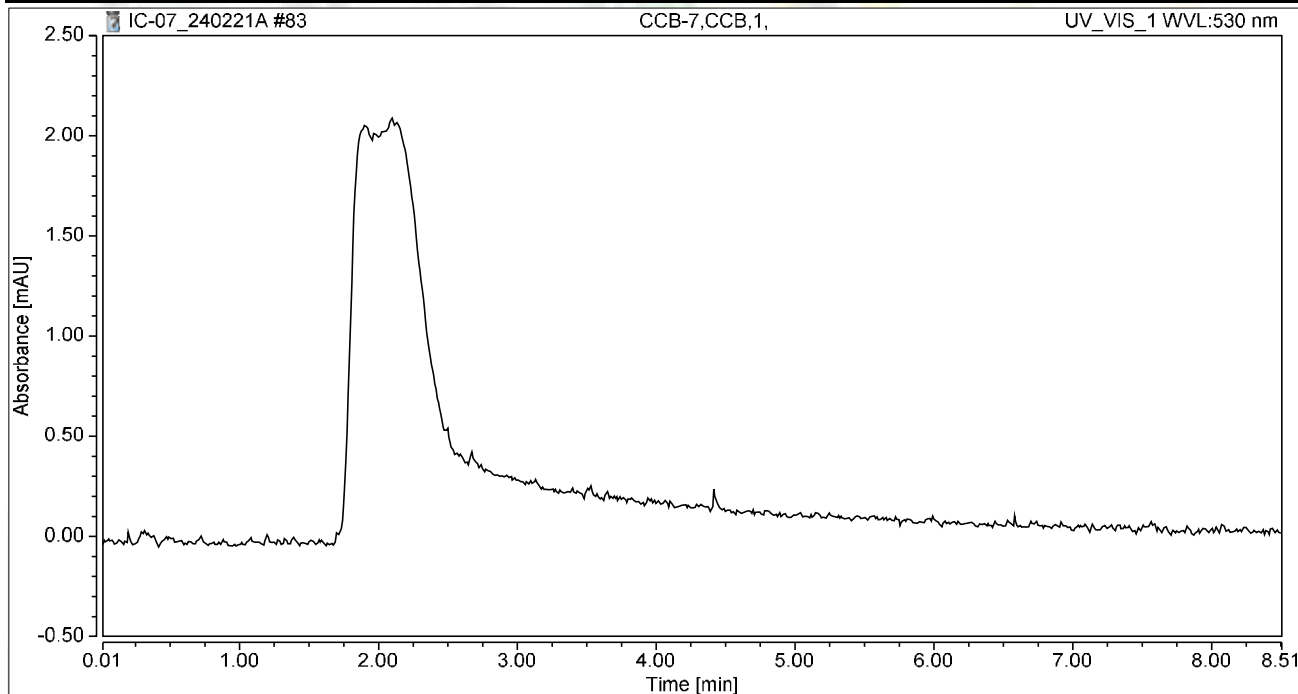
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	1.045	6.656	100.00	100.00	4.8590
Total:			1.045	6.656	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:49	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

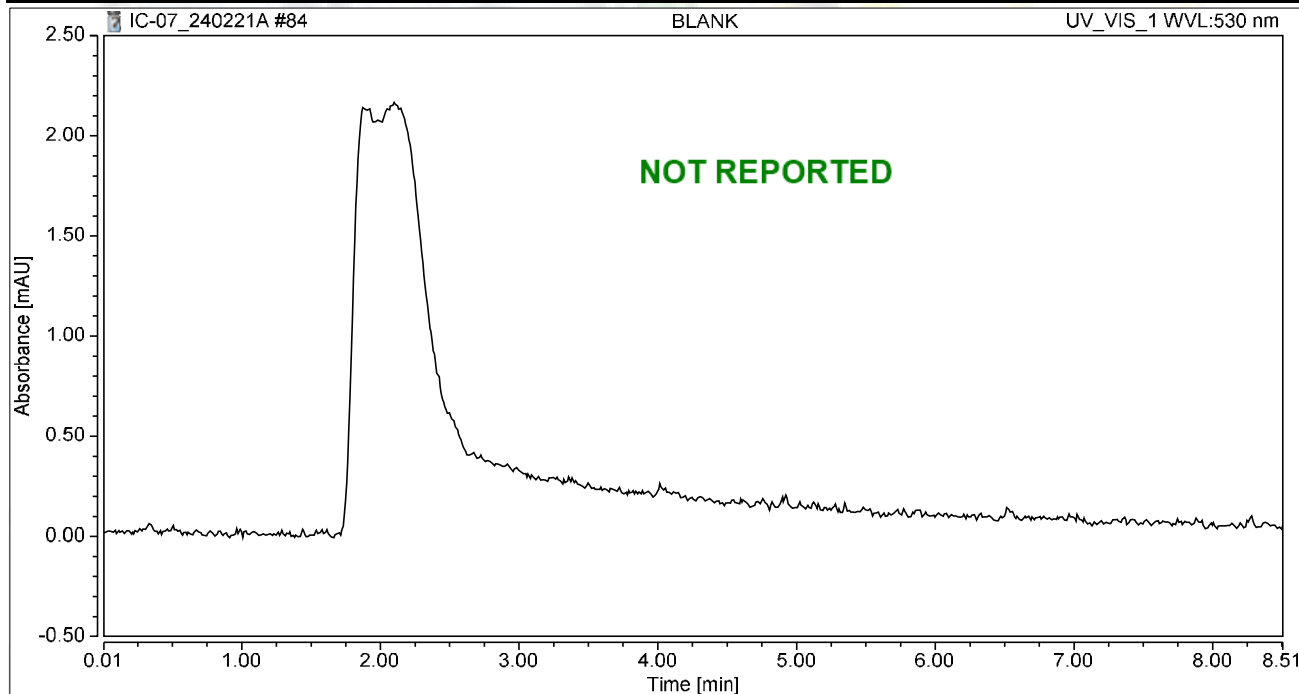
jrb 2/27/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	21/Feb/24 21:58	Sample Weight:	1.0000

Chromatogram



Integration Results

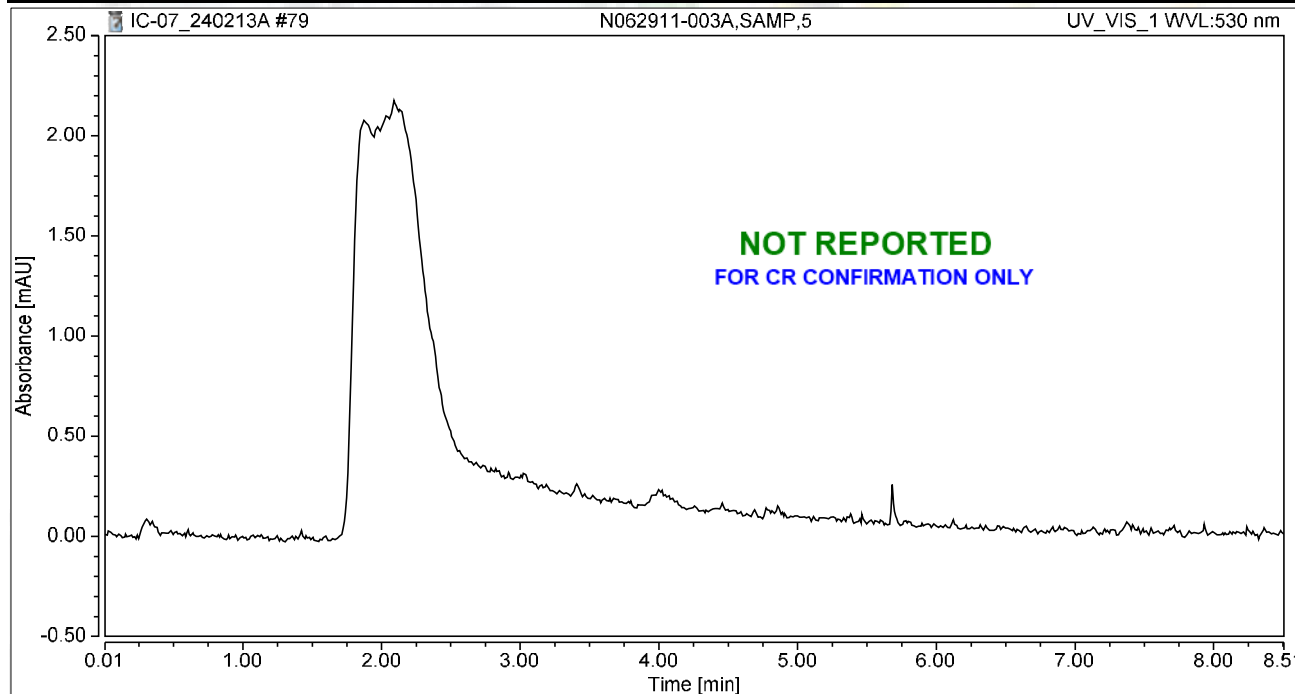
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Feb/24 21:03	Sample Weight:	1.0000

Chromatogram



Integration Results

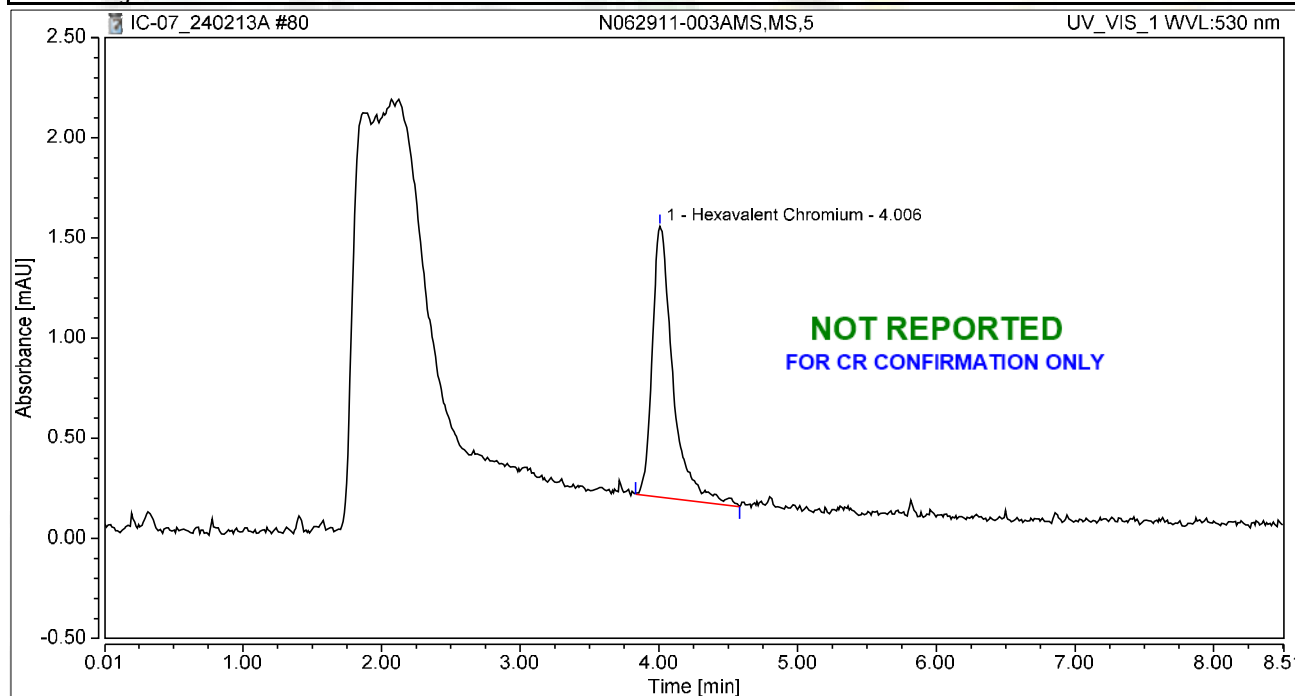
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Feb/24 21:13	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.232	1.352	100.00	100.00	1.0806
Total:			0.232	1.352	100.00	100.00	

EPA 300.0



ASSET LABORATORIES
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NEVADA
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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181233
 ASSET #: N062911

Instrument ID: IC-09
 Analyst: RBA
 Date Analyzed: 2/6/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Detection of Sulafte in MB was >1/2PQL. However, N062911 samples were >5X the CCB detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 2/20/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Sulfate concentration, in mg/L, in the original sample as follows:

$$\text{Sulfate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062911-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Sulfate, mg/L} &= 7.9524 * 50 \\ &= 397.62\end{aligned}$$

Reporting result in two significant figures,

$$\text{Sulfate, mg/L} = \mathbf{400}$$

Reviewed by:

d/Recha 2/27/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sequence: IC-09_240123A
Operator: IC-05

Page 1 of 2
Printed: 1/23/2024 9:48:09 PM

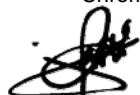
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Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 40
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Last Update: 1/23/2024 3:11:46 PM by IC-05

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3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	MB-H2O,MBLK,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	LCS-H2O,LCS,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	N062306-006A,SAMP,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062306-020A,SAMP,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062306-008A,SAMP,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062306-025A,SAMP,1	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062306-006A,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062306-006A,SAMP,50	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062306-020A,SAMP,5	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062306-025ADUP,DUP,1	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	CCV-1,CCV,1	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCB-1,CCB,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	N062306-008A,SAMP,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062306-008AMS,MS,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
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28	N062306-006ADUP,DUP,50	Unknown	20	1000.0	Anions_Default	EPA 300_0_240123A	Finished
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30	N062306-006AMSD,MSD,50	Unknown	22	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062306-020ADUP,DUP,5	Unknown	23	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	CCV-2,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCB-2,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	N062306-020AMS,MS,5	Unknown	26	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062306-020AMSD,MSD,5	Unknown	27	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062306-025AMS,MS,1	Unknown	28	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	N062306-025AMSD,MSD,1	Unknown	29	1000.0	Anions_Default	EPA 300_0_240123A	Finished
38	N062306-008ADUP,DUP,1	Unknown	30	1000.0	Anions_Default	EPA 300_0_240123A	Finished
39	CCV-3,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240123A	Finished
40	CCB-3,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Processed by:

reviewed by: *Mamy* 2/1/2024

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1/23/2024

IC9 RBA 1/23/2024 9:49:16 PM

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Sequence: IC-09_240123A
Operator: IC-05

Page 2 of 2
Printed: 1/23/2024 9:48:09 PM

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Timebase: ICS-2000_PERC
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Last Update: 1/23/2024 3:11:46 PM by IC-05

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2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	ICV,ICV,1	1/23/2024 12:23:59 PM	ICV, IWST-240123B
9	ICB,ICB,1	1/23/2024 12:39:55 PM	CCB
10	MB-H2O,MBLK,1	1/23/2024 1:31:28 PM	MB
11	LCS-H2O,LCS,1	1/23/2024 1:46:47 PM	LCS IWST-240123B
12	N062306-006A,SAMP,1	1/23/2024 2:02:42 PM	SAMP,10mL,
13	N062306-020A,SAMP,1	1/23/2024 2:18:38 PM	SAMP,10mL,
14	N062306-008A,SAMP,1	1/23/2024 2:34:34 PM	SAMP,10mL,
15	N062306-025A,SAMP,1	1/23/2024 2:50:30 PM	SAMP,10mL,
16	N062306-006A,SAMP,5	1/23/2024 3:06:26 PM	SAMP,2>10mL,
17	N062306-006A,SAMP,50	1/23/2024 3:22:22 PM	SAMP,0.2>10mL,
18	N062306-020A,SAMP,5	1/23/2024 3:38:18 PM	SAMP,2>10mL,
19	N062306-025ADUP,DUP,1	1/23/2024 3:54:13 PM	DUP,10mL,
20	CCV-1,CCV,1	1/23/2024 4:10:09 PM	CCV, IWST-240123A
21	CCB-1,CCB,1	1/23/2024 4:26:05 PM	CCB
22	N062306-008A,SAMP,1	1/23/2024 4:42:01 PM	SAMP,10mL,
23	N062306-008AMS,MS,1	1/23/2024 4:57:56 PM	MS,5>10mL,
24	N062306-008AMSD,MSD,1	1/23/2024 5:13:52 PM	MSD,5>10mL,
25	N062306-006ADUP,DUP,5	1/23/2024 5:29:48 PM	DUP,2>10mL,
26	N062306-006AMS,MS,5	1/23/2024 5:45:44 PM	MS,2>10mL,
27	N062306-006AMSD,MSD,5	1/23/2024 6:01:39 PM	MSD,2>10mL,
28	N062306-006ADUP,DUP,50	1/23/2024 6:17:35 PM	DUP,0.2>10mL,
29	N062306-006AMS,MS,50	1/23/2024 6:33:31 PM	MS,0.2>10mL,
30	N062306-006AMSD,MSD,50	1/23/2024 6:49:27 PM	MSD,0.2>10mL,
31	N062306-020ADUP,DUP,5	1/23/2024 7:05:23 PM	DUP,2>10mL,
32	CCV-2,CCV,1	1/23/2024 7:21:19 PM	CCV, IWST-240123A
33	CCB-2,CCB,1	1/23/2024 7:37:15 PM	CCB
34	N062306-020AMS,MS,5	1/23/2024 7:53:11 PM	MS,2>10mL,
35	N062306-020AMSD,MSD,5	1/23/2024 8:09:07 PM	MSD,2>10mL,
36	N062306-025AMS,MS,1	1/23/2024 8:25:03 PM	MS,10mL,
37	N062306-025AMSD,MSD,1	1/23/2024 8:40:59 PM	MSD,10mL,
38	N062306-008ADUP,DUP,1	1/23/2024 8:56:55 PM	DUP,10mL,
39	CCV-3,CCV,1	1/23/2024 9:12:51 PM	CCV, IWST-240123A
40	CCB-3,CCB,1	1/23/2024 9:28:47 PM	CCB

Sequence: IC-09_240206A
Operator: IC-05

Page 1 of 4
Printed: 2/6/2024 9:18:24 PM

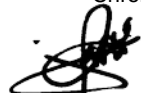
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Timebase: ICS-2000_PERC
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Last Update: 2/6/2024 10:30:21 AM by IC-05

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4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062911-003B,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062911-003BMS,MS,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062911-003BMSD,MSD,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062911-001B,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062911-001BDUP,DUP,10	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062911-002B,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062911-004B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	N062911-006B,SAMP,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062911-007B,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
24	N062911-008B,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
25	N062911-009B,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
26	N062911-011B,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
27	N062911-003B,SAMP,50	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
28	N062911-003BMS,MS,50	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
29	N062911-003BMSD,MSD,50	Unknown	17	1000.0	Anions_Default	EPA 300_0_240123A	Finished
30	N062911-001B,SAMP,50	Unknown	18	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062911-001BDUP,DUP,50	Unknown	19	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	N062911-002B,SAMP,100	Unknown	20	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062911-004B,SAMP,50	Unknown	23	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062911-006B,SAMP,100	Unknown	24	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	N062911-007B,SAMP,50	Unknown	25	1000.0	Anions_Default	EPA 300_0_240123A	Finished
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39	N062911-009B,SAMP,50	Unknown	27	1000.0	Anions_Default	EPA 300_0_240123A	Finished
40	N062911-011B,SAMP,50	Unknown	28	1000.0	Anions_Default	EPA 300_0_240123A	Finished
41	CCV-4,CCV,1	Unknown	29	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



2/6/2024

IC9 RBA 2/6/2024 9:18:50 PM

390

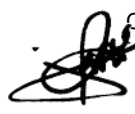
Sequence: IC-09_240206A
Operator: IC-05

Page 2 of 4
Printed: 2/6/2024 9:18:24 PM

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Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 42

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Last Update: 2/6/2024 10:30:21 AM by IC-05

No.	Name	Inj. Date/Time	Comment
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2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	BLANK	2/6/2024 7:37:07 AM	BLANK
9	CCV-1,CCV,1	2/6/2024 7:52:27 AM	CCV, IWST-240131A
10	CCB-1,CCB,1	2/6/2024 8:08:22 AM	CCB
11	MB-H2O,MBLK,1	2/6/2024 8:24:17 AM	MB
12	LCS-H2O,LCS,1	2/6/2024 8:40:13 AM	LCS IWST-240131B
13	N062911-003B,SAMP,10	2/6/2024 10:15:19 AM	SAMP,1>10mL,
14	N062911-003BMS,MS,10	2/6/2024 10:30:36 AM	MS,1>10mL,
15	N062911-003BMSD,MSD,10	2/6/2024 10:46:32 AM	MSD,1>10mL,
16	N062911-001B,SAMP,10	2/6/2024 11:02:28 AM	SAMP,1>10mL,
17	N062911-001BDUP,DUP,10	2/6/2024 11:18:24 AM	DUP,1>10mL,
18	N062911-002B,SAMP,10	2/6/2024 11:34:20 AM	SAMP,1>10mL,
19	N062911-004B,SAMP,10	2/6/2024 11:50:15 AM	SAMP,1>10mL,
20	N062911-006B,SAMP,10	2/6/2024 12:06:11 PM	SAMP,1>10mL,
21	CCV-2,CCV,1	2/6/2024 12:22:07 PM	CCV, IWST-240131A
22	CCB-2,CCB,1	2/6/2024 12:38:02 PM	CCB
23	N062911-007B,SAMP,10	2/6/2024 12:53:57 PM	SAMP,1>10mL,
24	N062911-008B,SAMP,10	2/6/2024 1:09:52 PM	SAMP,1>10mL,
25	N062911-009B,SAMP,10	2/6/2024 1:25:48 PM	SAMP,1>10mL,
26	N062911-011B,SAMP,10	2/6/2024 1:41:44 PM	SAMP,1>10mL,
27	N062911-003B,SAMP,50	2/6/2024 1:57:40 PM	SAMP,0.2>10mL,
28	N062911-003BMS,MS,50	2/6/2024 2:13:35 PM	MS,0.2>10mL,
29	N062911-003BMSD,MSD,50	2/6/2024 2:29:31 PM	MSD,0.2>10mL,
30	N062911-001B,SAMP,50	2/6/2024 2:45:27 PM	SAMP,0.2>10mL,
31	N062911-001BDUP,DUP,50	2/6/2024 3:01:23 PM	DUP,0.2>10mL,
32	N062911-002B,SAMP,100	2/6/2024 3:17:19 PM	SAMP,0.1>10mL,
33	CCV-3,CCV,1	2/6/2024 3:33:15 PM	CCV, IWST-240131A
34	CCB-3,CCB,1	2/6/2024 3:49:10 PM	CCB
35	N062911-004B,SAMP,50	2/6/2024 4:05:05 PM	SAMP,0.2>10mL,
36	N062911-006B,SAMP,100	2/6/2024 4:21:01 PM	SAMP,0.1>10mL,
37	N062911-007B,SAMP,50	2/6/2024 4:36:50 PM	SAMP,0.2>10mL,
38	N062911-008B,SAMP,50	2/6/2024 4:52:46 PM	SAMP,0.2>10mL,
39	N062911-009B,SAMP,50	2/6/2024 5:08:42 PM	SAMP,0.2>10mL,
40	N062911-011B,SAMP,50	2/6/2024 5:24:39 PM	SAMP,0.2>10mL,
41	CCV-4,CCV,1	2/6/2024 5:40:34 PM	CCV, IWST-240131A



Sequence: IC-09_240206A
Operator: IC-05

Page 3 of 4
Printed: 2/6/2024 9:18:24 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 42

Created: 2/6/2024 7:29:42 AM by IC-05
Last Update: 2/6/2024 10:30:21 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	CCB-4,CCB,1	Unknown	30	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Sequence: IC-09_240206A
Operator: IC-05

Page 4 of 4
Printed: 2/6/2024 9:18:24 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 42

Created: 2/6/2024 7:29:42 AM by IC-05
Last Update: 2/6/2024 10:30:21 AM by IC-05

No.	Name	Inj. Date/Time	Comment
42	CCB-4,CCB,1	2/6/2024 5:56:30 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0190	0.0945	0.1921	0.4821	1.0068	1.000
Measured, in mg/L	0.000000	0.066800	0.254200	0.496300	1.215600	2.517200	
Relative Error (%RE)		33.6%		-0.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/23/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0471	0.2312	0.4633	1.1854	2.4954	0.999
Measured, in mg/L	0.000000	0.620800	2.088800	3.940200	9.700400	20.149900	
Relative Error (%RE)		24.2%		-1.5%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ICV	Batch ID: R181233	TestNo: EPA 300.0	Analysis Date: 1/23/2024	SeqNo: 5673417							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.078	0.50	4.000	0	102	90	110				
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Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0	Analysis Date: 2/6/2024	SeqNo: 5673419							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	3.931	0.50	4.000	0	98.3	90	110				
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Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0	Analysis Date: 2/6/2024	SeqNo: 5673423							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.039	0.50	4.000	0	101	90	110				
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Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0	Analysis Date: 2/6/2024	SeqNo: 5673431							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.010	0.50	4.000	0	100	90	110				
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Sample ID: CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0	Analysis Date: 2/6/2024	SeqNo: 5673439							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.029	0.50	4.000	0	101	90	110				
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Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ICV	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 1/23/2024	SeqNo: 5673326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.273 0.050 1.250 0 102 90 110

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.222 0.050 1.250 0 97.8 90 110

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673340						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.246 0.050 1.250 0 99.7 90 110

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.222 0.050 1.250 0 97.8 90 110

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCV	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.227 0.050 1.250 0 98.2 90 110

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ICB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 1/23/2024	SeqNo: 5673418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-4	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: ICB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 1/23/2024	SeqNo: 5673327						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181233						
Client ID: CCB	Batch ID: R181233	TestNo: EPA 300.0		Analysis Date: 2/6/2024	SeqNo: 5673349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 2/6/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 7.354	
CCV-1	Nitrate 7.220	
CCV-2	Nitrate 7.311	
CCV-3	Nitrate 7.284	
CCV-4	Nitrate 7.321	

Average 7.284

Applied RT Window 7.084 - 7.484

MB-R181233_NO3	Nitrate	N.A.	N.A.
LCS-R181233_NO3	Nitrate	7.227	PASS
N062911-003B	Nitrate	N.A.	N.A.
N062911-003BMS	Nitrate	7.267	PASS
N062911-003BMSD	Nitrate	7.277	PASS
N062911-001B	Nitrate	7.284	PASS
N062911-001BDUP	Nitrate	7.301	PASS
N062911-002B	Nitrate	N.A.	N.A.
N062911-004B	Nitrate	N.A.	N.A.
N062911-006B	Nitrate	N.A.	N.A.
N062911-007B	Nitrate	N.A.	N.A.
N062911-008B	Nitrate	N.A.	N.A.
N062911-009B	Nitrate	N.A.	N.A.
N062911-011B	Nitrate	7.334	PASS

Reviewed by:

d/Rocha 2/27/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 2/6/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.917	
CCV-1	Sulfate	10.814	
CCV-2	Sulfate	10.774	
CCV-3	Sulfate	10.744	
CCV-4	Sulfate	10.751	

Average 10.771

Applied RT Window 10.571 - 10.971

MB-R181233_SO4	Sulfate	10.914	PASS
LCS-R181233_SO4	Sulfate	10.841	PASS
N062911-003B	Sulfate	10.744	PASS
N062911-003BMS	Sulfate	10.751	PASS
N062911-003BMSD	Sulfate	10.747	PASS
N062911-001B	Sulfate	10.747	PASS
N062911-001BDUP	Sulfate	10.741	PASS
N062911-002B	Sulfate	10.731	PASS
N062911-004B	Sulfate	10.747	PASS
N062911-006B	Sulfate	10.744	PASS
N062911-007B	Sulfate	10.747	PASS
N062911-008B	Sulfate	10.744	PASS
N062911-009B	Sulfate	10.734	PASS
N062911-011B	Sulfate	10.741	PASS

Reviewed by:

MRecha 2/27/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



ASSET LABORATORIES
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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106653
 ASSET #: N062911

Instrument ID: ICP-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/7/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 02162024

Date: _____
 Date: _____

SAMPLE CALCULATION



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“Serving Clients with Passion and Professionalism”

SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062911-002C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.03543 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 35.43$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{35}$$

Reviewed by:

d/Recha 2/27/2024

% RSD SUMMARY



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“Serving Clients with Passion and Professionalism”

RSD SUMMARY: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	5.2	15	PASS
Standard1	ICAL	1	Fe	0.02	0.75	15	PASS
Standard2	ICAL	1	Fe	0.05	0.74	15	PASS
Standard3	ICAL	1	Fe	2	0.43	15	PASS
Standard4	ICAL	1	Fe	5	0.1	15	PASS
Standard5	ICAL	1	Fe	7.5	0.21	15	PASS
Standard6	ICAL	1	Fe	10	0.07	15	PASS
Standard7	ICAL	1	Fe	20	0.01	15	PASS
ICV	ICV	1	Fe	10.08	0.28	15	PASS
ICB	ICB	1	Fe	0	60.64	15	<PQL
LLICV1	CCV1	1	Fe	0.02	2.16	20	PASS
ICSA1	ICSA	1	Fe	168.74	0.04	15	PASS
ICSAB1	ICSAB	1	Fe	171.86	0.02	15	PASS
RINSE	RINSE	1	Fe	0	73.52	15	<PQL
MB-106653	MBLK	1	Fe	0	408.7	15	<PQL
LCS-106653	LCS	1	Fe	0.12	0.7	15	PASS
N062844-001D	SAMP	1	Fe	0.02	2.33	15	PASS
N062911-001C	SAMP	1	Fe	0.02	0.97	15	PASS
N062911-002C	SAMP	1	Fe	0.04	2.61	15	PASS
N062911-003C	SAMP	1	Fe	0.05	1.18	15	PASS
N062911-003C	SAMP	5	Fe	0.01	5.78	15	PASS
N062911-003C-PS	PS	1	Fe	0.14	0.46	15	PASS
N062911-003CMS	MS	1	Fe	0.13	0.22	15	PASS
CCV1	CCV	1	Fe	10.09	0.19	15	PASS
CCB1	CCB	1	Fe	0	72.86	15	<PQL
N062911-003CMSD	MSD	1	Fe	0.13	0.16	15	PASS
N062911-004C	SAMP	1	Fe	0.03	2.97	15	PASS
N062911-006C	SAMP	1	Fe	0.28	0.42	15	PASS
N062911-007C	SAMP	1	Fe	0.05	1.58	15	PASS
N062911-008C	SAMP	1	Fe	0.08	0.24	15	PASS
N062911-009C	SAMP	1	Fe	0.03	1.31	15	PASS
N062911-011C	SAMP	1	Fe	0.02	2.81	15	PASS
LCS-106653	LCS	1	Fe	0.1	0.3	15	PASS
CCV2	CCV	1	Fe	10.07	0.25	15	PASS
CCB2	CCB	1	Fe	0	43.73	15	<PQL
ICSA2	ICSA	1	Fe	168.88	0.03	15	PASS
ICSAB2	ICSAB	1	Fe	172.32	0.01	15	PASS
CCV3	CCV	1	Fe	10.18	0.12	15	PASS
CCB3	CCB	1	Fe	0	49.13	15	<PQL
CCV4	CCV	1	Fe	10.12	0.58	15	PASS
CCB4	CCB	1	Fe	0	55.65	15	<PQL
CCV5	CCV	1	Fe	10.11	0.29	15	PASS

RSD SUMMARY: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCB5	CCB	1	Fe	0	50.65	15	<PQL
ICSA3	ICSA	1	Fe	169.44	0.08	15	PASS
ICSAB3	ICSAB	1	Fe	172.7	0	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240207A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	02/07/2024	12:10:49 PM
2	Standard1	ICAL	1	02/07/2024	12:14:31 PM
3	Standard2	ICAL	1	02/07/2024	12:18:14 PM
4	Standard3	ICAL	1	02/07/2024	12:21:57 PM
5	Standard4	ICAL	1	02/07/2024	12:25:12 PM
6	Standard5	ICAL	1	02/07/2024	12:28:27 PM
7	Standard6	ICAL	1	02/07/2024	12:31:39 PM
8	Standard7	ICAL	1	02/07/2024	12:34:53 PM
310	ICV	ICV	1	02/07/2024	12:41:25 PM
1	ICB	ICB	1	02/07/2024	12:44:45 PM
2	LLICV1	CCV1	1	02/07/2024	12:48:28 PM
9	ICSA1	ICSA	1	02/07/2024	12:52:12 PM
10	ICSAB1	ICSAB	1	02/07/2024	12:56:54 PM
299	RINSE	RINSE	1	02/07/2024	01:07:29 PM
11	MB-106653	MBLK	1	02/07/2024	01:11:16 PM
12	LCS-106653	LCS	1	02/07/2024	01:14:59 PM
13	N062844-001D	SAMP	1	02/07/2024	01:18:43 PM
14	N062911-001C	SAMP	1	02/07/2024	01:23:00 PM
15	N062911-002C	SAMP	1	02/07/2024	01:28:27 PM
16	N062911-003C	SAMP	1	02/07/2024	01:33:46 PM
17	N062911-003C	SAMP	5	02/07/2024	01:39:05 PM
18	N062911-003C-PS	PS	1	02/07/2024	01:43:20 PM
19	N062911-003CMS	MS	1	02/07/2024	01:48:40 PM
7	CCV1	CCV	1	02/07/2024	01:54:00 PM
1	CCB1	CCB	1	02/07/2024	01:57:15 PM
20	N062911-003CMSD	MSD	1	02/07/2024	02:00:58 PM
21	N062911-004C	SAMP	1	02/07/2024	02:06:19 PM
22	N062911-006C	SAMP	1	02/07/2024	02:10:37 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
23	N062911-007C	SAMP	1	02/07/2024	02:15:28 PM
24	N062911-008C	SAMP	1	02/07/2024	02:20:47 PM
25	N062911-009C	SAMP	1	02/07/2024	02:26:07 PM
26	N062911-011C	SAMP	1	02/07/2024	02:29:52 PM
12	LCS-106653	LCS	1	02/07/2024	02:35:19 PM
7	CCV2	CCV	1	02/07/2024	02:39:03 PM
1	CCB2	CCB	1	02/07/2024	02:42:17 PM
9	ICSA2	ICSA	1	02/07/2024	02:45:59 PM
10	ICSAB2	ICSAB	1	02/07/2024	02:50:40 PM
35	MB-106671	MBLK	1	02/07/2024	03:14:41 PM
36	LCS-106671	LCS	1	02/07/2024	03:18:24 PM
37	N062938-001C	SAMP	1	02/07/2024	03:22:08 PM
38	N062938-002C	SAMP	1	02/07/2024	03:27:27 PM
39	N062938-003C	SAMP	1	02/07/2024	03:32:55 PM
40	N062938-004C	SAMP	1	02/07/2024	03:38:22 PM
41	N062938-004C	SAMP	5	02/07/2024	03:43:42 PM
42	N062398-004C-PS	PS	1	02/07/2024	03:47:57 PM
43	N062398-004CMS	MS	1	02/07/2024	03:53:17 PM
44	N062398-004CMSD	MSD	1	02/07/2024	03:58:38 PM
7	CCV3	CCV	1	02/07/2024	04:03:59 PM
1	CCB3	CCB	1	02/07/2024	04:07:12 PM
45	N062938-005C	SAMP	1	02/07/2024	04:10:55 PM
46	N062938-006C	SAMP	1	02/07/2024	04:15:46 PM
47	N062938-007C	SAMP	1	02/07/2024	04:21:15 PM
48	N062938-008C	SAMP	1	02/07/2024	04:26:35 PM
49	N062938-010C	SAMP	1	02/07/2024	04:30:52 PM
50	N062938-012C	SAMP	1	02/07/2024	04:34:07 PM
51	N062938-013C	SAMP	1	02/07/2024	04:38:25 PM
52	N062938-014C	SAMP	1	02/07/2024	04:42:42 PM
53	N062938-015C	SAMP	1	02/07/2024	04:48:03 PM
54	N062938-016C	SAMP	1	02/07/2024	04:53:31 PM
7	CCV4	CCV	1	02/07/2024	04:58:59 PM
1	CCB4	CCB	1	02/07/2024	05:02:13 PM
55	N062938-017C	SAMP	1	02/07/2024	05:05:56 PM
56	N062938-018C	SAMP	1	02/07/2024	05:09:13 PM
7	CCV5	CCV	1	02/07/2024	05:14:04 PM
1	CCB5	CCB	1	02/07/2024	05:17:18 PM
9	ICSA3	ICSA	1	02/07/2024	05:21:01 PM
10	ICSAB3	ICSAB	1	02/07/2024	05:25:42 PM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/6/2024 11:18:50 AM

Reviewed/ Date: *d/Rocha* 2/27/2024

Page: 1 of 1

Prep End Date: 2/6/2024 4:30:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106653 Prep Code:3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-01-25

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106653	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106653	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062844-001D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15256	HYDROCHLORIC ACID
15403	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



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420

INITIAL CALIBRATION SUMMARY: 240207A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	02/07/2024	12:10:49 PM	Fe	273.952	112	0.00	mg/L	
Standard1	02/07/2024	12:14:31 PM	Fe	273.952	261	0.02	mg/L	
Standard2	02/07/2024	12:18:14 PM	Fe	273.952	788	0.05	mg/L	
Standard3	02/07/2024	12:21:57 PM	Fe	273.952	25894	2.0	mg/L	
Standard4	02/07/2024	12:25:12 PM	Fe	273.952	64367	5.0	mg/L	
Standard5	02/07/2024	12:28:27 PM	Fe	273.952	96285	7.5	mg/L	
Standard6	02/07/2024	12:31:39 PM	Fe	273.952	129542	10.0	mg/L	
Standard7	02/07/2024	12:34:53 PM	Fe	273.952	257094	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10083.269	20	10000	0	101	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ZZZZZZ	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.879	20	20.00	0	104	80	120				

Sample ID CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673837						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10091.978	20	10000	0	101	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673847						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10067.319	20	10000	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10178.574	20	10000	0	102	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10123.336	20	10000	0	101	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Sample ID CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673877							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10108.907	20	10000	0	101	90	110				
------	-----------	----	-------	---	-----	----	-----	--	--	--	--

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.635 20

Sample ID CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673838						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.191 20

Sample ID CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.180 20

Sample ID CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.329 20

Sample ID CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.271 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1.543	20									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	534601.602	50	500000	0	107	80	120				
Calcium	444258.074	500	500000	0	88.9	80	120				
Iron	168740.285	20	200000	0	84.4	80	120				
Magnesium	440167.387	100	500000	0	88.0	80	120				

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA B	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	542009.012	50	500000	0	108	80	120				
Calcium	451368.357	500	500000	0	90.3	80	120				
Iron	171862.778	20	200000	0	85.9	80	120				
Magnesium	450652.167	100	500000	0	90.1	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	529619.978	50	500000	0	106	80	120				
Calcium	444936.054	500	500000	0	89.0	80	120				
Iron	168878.888	20	200000	0	84.4	80	120				
Magnesium	440184.161	100	500000	0	88.0	80	120				

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA B	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	542827.080	50	500000	0	109	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSAB	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673850							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	454218.792	500	500000	0	90.8	80	120				
Iron	172322.674	20	200000	0	86.2	80	120				
Magnesium	451087.766	100	500000	0	90.2	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	520763.482	50	500000	0	104	80	120				
Calcium	447987.188	500	500000	0	89.6	80	120				
Iron	169436.381	20	200000	0	84.7	80	120				
Magnesium	440389.546	100	500000	0	88.1	80	120				

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSAB	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673880							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	530324.323	50	500000	0	106	80	120				
Calcium	454528.855	500	500000	0	90.9	80	120				
Iron	172704.960	20	200000	0	86.4	80	120				
Magnesium	450885.331	100	500000	0	90.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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INTERNAL STANDARD: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	0.99	98.87	65-125	PASS
Standard2	ICAL	1	0.98	98.43	65-125	PASS
Standard3	ICAL	1	0.98	98.19	65-125	PASS
Standard4	ICAL	1	0.98	97.8	65-125	PASS
Standard5	ICAL	1	0.97	97.22	65-125	PASS
Standard6	ICAL	1	0.96	96.03	65-125	PASS
Standard7	ICAL	1	0.95	95.08	65-125	PASS
ICV	ICV	1	0.97	96.55	65-125	PASS
ICB	ICB	1	0.99	98.6	65-125	PASS
LLICV1	CCV1	1	0.98	97.69	65-125	PASS
ICSA1	ICSA	1	0.82	81.61	65-125	PASS
ICSAB1	ICSAB	1	0.81	80.99	65-125	PASS
RINSE	RINSE	1	1.02	101.56	65-125	PASS
MB-106653	MBLK	1	0.98	97.72	65-125	PASS
LCS-106653	LCS	1	0.96	95.56	65-125	PASS
N062844-001D	SAMP	1	0.92	92.1	65-125	PASS
N062911-001C	SAMP	1	0.75	75.05	65-125	PASS
N062911-002C	SAMP	1	0.76	75.62	65-125	PASS
N062911-003C	SAMP	1	0.74	74.24	65-125	PASS
N062911-003C	SAMP	5	0.86	86.38	65-125	PASS
N062911-003C-PS	PS	1	0.72	72.3	65-125	PASS
N062911-003CMS	MS	1	0.76	76.21	65-125	PASS
CCV1	CCV	1	0.97	96.64	65-125	PASS
CCB1	CCB	1	0.99	98.62	65-125	PASS
N062911-003CMSD	MSD	1	0.76	75.94	65-125	PASS
N062911-004C	SAMP	1	0.75	74.88	65-125	PASS
N062911-006C	SAMP	1	0.77	76.67	65-125	PASS
N062911-007C	SAMP	1	0.75	74.78	65-125	PASS
N062911-008C	SAMP	1	0.72	71.83	65-125	PASS
N062911-009C	SAMP	1	0.81	80.66	65-125	PASS
N062911-011C	SAMP	1	0.75	75.14	65-125	PASS
LCS-106653	LCS	1	0.96	95.75	65-125	PASS
CCV2	CCV	1	0.96	96.34	65-125	PASS
CCB2	CCB	1	0.99	98.79	65-125	PASS
ICSA2	ICSA	1	0.82	81.68	65-125	PASS
ICSAB2	ICSAB	1	0.82	81.51	65-125	PASS
CCV3	CCV	1	0.98	97.77	65-125	PASS
CCB3	CCB	1	1	100.29	65-125	PASS
CCV4	CCV	1	0.97	96.97	65-125	PASS
CCB4	CCB	1	0.99	99.47	65-125	PASS

INTERNAL STANDARD: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCV5	CCV	1	0.98	97.58	65-125	PASS
CCB5	CCB	1	1	99.76	65-125	PASS
ICSA3	ICSA	1	0.82	82.33	65-125	PASS
ICSAB3	ICSAB	1	0.82	81.82	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062911
Test Method: EPA 6010B
Analysis Date: 2/7/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106653

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062911-003C DT 5x	Iron	Fe	µg/L	0	NA	45.63791	100.00%	10

Reviewed by:

d/Recha 2/27/2024

Note: NA - Not Applicable

02/20/24 19:35

DT_EPA 6010B_N062911_106653

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID N062911-003C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ZZZZZZ	Batch ID: 106653	TestNo: EPA 6010B EPA 3010A	Analysis Date: 2/7/2024	SeqNo: 5673835							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	139.545	20	100.0	45.64	93.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



ASSET LABORATORIES
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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B	Matrix: WATER
Digestion Method: EPA 3010A	Units : ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23	
Analysis Date: 5/7-23/23	
Instrument Name: ICP-03	
Analyst/Technician: Nancy Sibucão / Diane Jetajobe	

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106652
 ASSET #: N062911

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/7/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?		X			X	
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?	X			X		
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% RSD of As in N062911-004C/ 006C failed. For re run
 Mn is OLR in N062911-006C. For dilution
 N062911-003C (first run) = 3.9 ug/L ; confirmation: 4.2 ug/L ; N062911-003A (218.6) = <1.0 ug/L ; confirmation: 3.5 ug/L
 N062911-004C (first run) = 1.6 ug/L , confirmation: _____ ; N062911-004A (218.6) = 0.334 ug/L ; confirmation: _____
 % Rec of Mn and Mo in several IQCS failed. However, IQCS that enclosed samples passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/20/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106652
 ASSET #: N062911

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/8/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run for N062911-004C/006C
 Mn dilution for N062911-006C.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/20/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Chromium concentration, in ug/L, in the original sample as follows:

$$\text{Chromium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062911-001C**, the concentration in ug/L is calculated as follows:


$$\text{Chromium, ug/L} = 7.06858 * 1 * (25 / 25)$$

$$\text{Chromium, ug/L} = 7.06858$$

Reporting results in two significant figures,

$$\text{Chromium, ug/L} = 7.1$$

Reviewed by:

 2/29/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	11.018	15	PASS	0.06	52.378	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	4.416	15	PASS	0.41	6.383	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	0.889	15	PASS	4.76	1.301	15	PASS
Std4-10/100 ppb	ICAL	1	9.76	1.713	15	PASS	9.48	1.725	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.91	0.756	15	PASS	19.17	0.132	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.42	0.481	15	PASS	38.82	2.216	15	PASS
Std7-100/1000 ppb	ICAL	1	98.32	0.474	15	PASS	97.98	1.39	15	PASS
Std8-200/2000 ppb	ICAL	1	201.09	0.656	15	PASS	201.36	0.703	15	PASS
ICV	ICV	1	10.21	1.302	15	PASS	10.37	1.781	15	PASS
ICB	ICB	1	0.01	77.623	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.02	7.115	20	PASS	1.01	4.46	20	PASS
MLCCV	CCV	1	19.07	2.148	15	PASS	19.31	1.107	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	21.42	1.325	15	PASS	20.42	0.734	15	PASS
LLICV1	LLICV	1	1.04	6.153	20	PASS	1.02	3.149	20	PASS
CCV1	CCV	1	21.28	2.614	15	PASS	20.38	1.689	15	PASS
CCB1	CCB	1	0.01	120.424	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	21.41	1.482	15	PASS	20.36	1.189	15	PASS
CCB2	CCB	1	0.01	102.173	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	21.66	0.324	15	PASS	20.55	1.396	15	PASS
CCV3	CCV	1	20.03	0.66	15	PASS	19.21	1.904	15	PASS
CCB3	CCB	1	0.01	54.435	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.9	1.094	15	PASS	19.22	1.407	15	PASS
CCB4	CCB	1	0.01	82.634	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.78	0.758	15	PASS	19.21	1.48	15	PASS
CCB5	CCB	1	0.01	76.993	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.49	0.989	15	PASS	19.25	0.88	15	PASS
CCB6	CCB	1	0.01	51.83	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.47	1.468	15	PASS	19.11	2.467	15	PASS
CCB7	CCB	1	0.01	175.992	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.43	1.813	15	PASS	19.51	2.969	15	PASS
CCB8	CCB	1	0.02	25.656	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	21.35	0.402	15	PASS	20.37	0.565	15	PASS
CCV9	CCV	1	19.74	0.381	15	PASS	19.46	0.828	15	PASS
CCB9	CCB	1	0.01	76.829	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.57	2.289	15	PASS	19.24	1.686	15	PASS
CCB10	CCB	1	0	327.893	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.81	2.253	15	PASS	19.03	0.428	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.01	61.146	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	21.52	1.086	15	PASS	20.56	1.569	15	PASS
CCV12	CCV	1	20.19	0.591	15	PASS	19.29	0.48	15	PASS
CCB12	CCB	1	0	272.119	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	21.67	1.606	15	PASS	20.64	1.196	15	PASS
MB-106652	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106652	LCS	1	10.34	0.6	15	PASS	9.92	0.293	15	PASS
N062843-001D	SAMP	1	111.19	0.362	15	PASS	3.68	1.688	15	PASS
N062844-001D	SAMP	1	173.56	0.458	15	PASS	2.2	3.848	15	PASS
N062845-001B	SAMP	1	49.51	1.453	15	PASS	12.15	1.241	15	PASS
N062845-003B	SAMP	1	57.47	1.199	15	PASS	2.62	2.781	15	PASS
N062911-001C	SAMP	1	149.11	1.36	15	PASS	7.07	1.134	15	PASS
N062911-002C	SAMP	1	40.65	0.425	15	PASS	0.12	5.025	15	PASS
N062911-003C	SAMP	1	32.74	0.717	15	PASS	3.88	2.255	15	PASS
N062911-003C	SAMP	5	6.6	1.615	15	PASS	0.74	2.281	15	PASS
CCV13	CCV	1	20.17	1.072	15	PASS	19.25	0.759	15	PASS
CCB13	CCB	1	0	491.727	15	<PQL	<0.000	N/A	15	<PQL
N062911-003C-PS	PS	1	43.02	1.873	15	PASS	13.25	1.423	15	PASS
N062911-003CMS	MS	1	43.54	0.173	15	PASS	13.02	1.131	15	PASS
N062911-003CMSD	MSD	1	42.97	0.644	15	PASS	13.23	0.59	15	PASS
N062911-004C	SAMP	1	40.72	0.592	15	PASS	0.34	3.83	15	PASS
N062911-006C	SAMP	1	90.42	0.581	15	PASS	0.25	8.691	15	PASS
N062911-007C	SAMP	1	87.44	1.471	15	PASS	0.54	4.677	15	PASS
N062911-008C	SAMP	1	42.46	1.415	15	PASS	0.18	6.631	15	PASS
N062911-009C	SAMP	1	42.53	1.122	15	PASS	0.29	1.142	15	PASS
N062911-011C	SAMP	1	148.36	2.342	15	PASS	7.18	2.589	15	PASS
CCV14	CCV	1	20.09	0.586	15	PASS	19.45	1.641	15	PASS
CCB14	CCB	1	0.01	101.765	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.6	1.668	15	PASS	21.11	0.682	15	PASS
CCV15	CCV	1	20.06	1.196	15	PASS	19.44	0.972	15	PASS
CCB15	CCB	1	0.01	124.787	15	<PQL	<0.000	N/A	15	<PQL
CCV16	CCV	1	20.13	1.711	15	PASS	19.56	0.892	15	PASS
CCB16	CCB	1	0.01	338.481	15	<PQL	<0.000	N/A	15	<PQL
CCV17	CCV	1	20.24	0.993	15	PASS	19.31	1.385	15	PASS
CCB17	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	21.77	0.462	15	PASS	21.04	0.898	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	33.523	15	<PQL	0.08	6.622	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.48	1.978	15	PASS	0.45	13.544	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	3.598	15	PASS	4.5	8.526	15	PASS
Std4-10/100 ppb	ICAL	1	9.57	3.759	15	PASS	10.11	0.556	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.25	0.839	15	PASS	19.49	8.225	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.71	1.955	15	PASS	39.94	1.465	15	PASS
Std7-100/1000 ppb	ICAL	1	98.35	0.605	15	PASS	99.44	1.877	15	PASS
Std8-200/2000 ppb	ICAL	1	201.19	1.445	15	PASS	200.35	0.427	15	PASS
ICV	ICV	1	104.03	0.287	15	PASS	10.56	0.569	15	PASS
ICB	ICB	1	0.01	123.814	15	<PQL	0.02	102.048	15	<PQL
LLICV1	LLICV	1	0.54	4.003	20	PASS	0.09	27.4	20	<PQL
MLCCV	CCV	1	19.1	2.038	15	PASS	19.39	3.076	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	114.701	15	<PQL
ICSAB1	ICSAB	1	16.81	1.761	15	PASS	21.28	2.268	15	PASS
LLICV1	LLICV	1	0.53	3.145	20	PASS	0.16	25.073	20	NR!
CCV1	CCV	1	16.97	2.409	15	PASS	21.46	2.006	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	16.97	1.971	15	PASS	21.35	3.163	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	137.918	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	17.01	0.81	15	PASS	20.99	2.628	15	PASS
CCV3	CCV	1	19.19	2.382	15	PASS	19.66	3.56	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.21	1.624	15	PASS	19.24	4.597	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.23	1.685	15	PASS	19.13	0.649	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19	1.123	15	PASS	18.96	2.84	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.16	1.277	15	PASS	19.43	2.482	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0	799.324	15	<PQL
CCV8	CCV	1	19.24	1.568	15	PASS	19.43	1.837	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	16.98	1.804	15	PASS	21.28	0.714	15	PASS
CCV9	CCV	1	19.47	1.1	15	PASS	19.19	3.99	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.02	1.234	15	PASS	19.16	2.131	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.01	0.765	15	PASS	18.91	4.166	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	<0.000	N/A	15	<PQL	0	5857.037	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	16.75	0.609	15	PASS	20.97	0.647	15	PASS
CCV12	CCV	1	19.19	0.709	15	PASS	19.42	2.284	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.02	121.63	15	<PQL
ICSAB5	ICSAB	1	16.88	1.997	15	PASS	21.06	2.149	15	PASS
MB-106652	MBLK	1	<0.000	N/A	15	<PQL	0.02	88.644	15	<PQL
LCS-106652	LCS	1	98.1	0.528	15	PASS	10.16	3.808	15	PASS
N062843-001D	SAMP	1	1.01	9.269	15	PASS	0.99	5.833	15	PASS
N062844-001D	SAMP	1	2.68	0.864	15	PASS	4.11	3.981	15	PASS
N062845-001B	SAMP	1	6.83	2.612	15	PASS	7.57	5.295	15	PASS
N062845-003B	SAMP	1	<0.000	N/A	15	<PQL	1.27	1.55	15	PASS
N062911-001C	SAMP	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062911-002C	SAMP	1	78.65	0.766	15	PASS	<0.000	N/A	15	<PQL
N062911-003C	SAMP	1	44.52	1.61	15	PASS	<0.000	N/A	15	<PQL
N062911-003C	SAMP	5	9.14	1.118	15	PASS	<0.000	N/A	15	<PQL
CCV13	CCV	1	19.16	2.419	15	PASS	18.75	0.363	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062911-003C-PS	PS	1	136.68	2.482	15	PASS	9.48	6.159	15	PASS
N062911-003CMS	MS	1	136.3	1.868	15	PASS	9.11	4.231	15	PASS
N062911-003CMSD	MSD	1	136.32	1.111	15	PASS	9.06	2.445	15	PASS
N062911-004C	SAMP	1	104.75	1.99	15	PASS	1.68	37.478	15	NR!
N062911-006C	SAMP	1	581.13	0.757	15	PASS	1.36	22.872	15	NR!
N062911-007C	SAMP	1	68.93	0.176	15	PASS	<0.000	N/A	15	<PQL
N062911-008C	SAMP	1	92.66	1.278	15	PASS	<0.000	N/A	15	<PQL
N062911-009C	SAMP	1	123.41	1.23	15	PASS	3.22	3.84	15	PASS
N062911-011C	SAMP	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	19.01	2.106	15	PASS	18.84	0.705	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.73	1.017	15	PASS	21.23	1.49	15	PASS
CCV15	CCV	1	18.82	0.754	15	PASS	19.1	5.041	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV16	CCV	1	18.83	2.287	15	PASS	18.86	2.646	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV17	CCV	1	18.73	1.19	15	PASS	19	5.543	15	PASS
CCB17	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	16.62	2.906	15	PASS	20.71	0.738	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	22.111	15	<PQL	0.08	4.66	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.43	30.202	15	<PQL	0.48	1.134	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	3.658	15	PASS	4.6	2.942	15	PASS
Std4-10/100 ppb	ICAL	1	10.07	3.499	15	PASS	9.51	0.902	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.54	1.796	15	PASS	19	2.298	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.37	0.493	15	PASS	38.43	0.213	15	PASS
Std7-100/1000 ppb	ICAL	1	99.65	0.409	15	PASS	97.14	0.743	15	PASS
Std8-200/2000 ppb	ICAL	1	200.35	0.302	15	PASS	201.88	0.48	15	PASS
ICV	ICV	1	10.39	1.514	15	PASS	10.36	3.026	15	PASS
ICB	ICB	1	0.06	16.538	15	<PQL	0.05	29.501	15	<PQL
LLICV1	LLICV	1	0.46	8.463	20	PASS	0.56	2.731	20	PASS
MLCCV	CCV	1	19.66	4.392	15	PASS	18.85	1.753	15	PASS
ICSA1	ICSA	1	0.02	43.706	15	<PQL	0.05	2.631	15	PASS
ICSAB1	ICSAB	1	20.08	3.14	15	PASS	23.03	0.445	15	PASS
LLICV1	LLICV	1	0.52	29.096	20	NR!	0.54	8.48	20	PASS
CCV1	CCV	1	20.51	2.712	15	PASS	22.79	0.14	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.04	7.911	15	PASS
CCV2	CCV	1	20.46	5.406	15	PASS	22.6	0.133	15	PASS
CCB2	CCB	1	0.01	265.889	15	<PQL	0.05	13.408	15	PASS
ICSA2	ICSA	1	0.01	2.692	15	PASS	0.02	79.911	15	<PQL
ICSAB2	ICSAB	1	19.93	1.948	15	PASS	23.09	1.224	15	PASS
CCV3	CCV	1	18.92	1.374	15	PASS	19.29	0.303	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	18.561	15	<PQL
CCV4	CCV	1	19.46	2.701	15	PASS	18.78	0.137	15	PASS
CCB4	CCB	1	0	15253.692	15	<PQL	0.05	4.025	15	PASS
CCV5	CCV	1	18.92	2.283	15	PASS	19.03	0.893	15	PASS
CCB5	CCB	1	0.03	60.404	15	<PQL	0.03	10.435	15	PASS
CCV6	CCV	1	19.21	2.938	15	PASS	19.02	1.748	15	PASS
CCB6	CCB	1	0.02	85.112	15	<PQL	0.04	1.197	15	PASS
CCV7	CCV	1	19.45	1.818	15	PASS	19.3	1.189	15	PASS
CCB7	CCB	1	0.02	153.443	15	<PQL	0.04	50.99	15	<PQL
CCV8	CCV	1	18.85	1.449	15	PASS	18.84	1.754	15	PASS
CCB8	CCB	1	0.01	2.569	15	PASS	0.04	19.836	15	<PQL
ICSA3	ICSA	1	0.01	163.786	15	<PQL	0.01	26.82	15	<PQL
ICSAB3	ICSAB	1	20.49	1.159	15	PASS	22.86	0.694	15	PASS
CCV9	CCV	1	19.02	0.933	15	PASS	18.97	2.076	15	PASS
CCB9	CCB	1	0.01	339.287	15	<PQL	0.05	30.432	15	<PQL
CCV10	CCV	1	19.13	1.269	15	PASS	18.82	1.614	15	PASS
CCB10	CCB	1	0.01	169.077	15	<PQL	0.05	7.532	15	PASS
CCV11	CCV	1	19.64	3.618	15	PASS	19.09	0.913	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.02	150.158	15	<PQL	0.04	49.991	15	<PQL
ICSA4	ICSA	1	0	6575.659	15	<PQL	0.01	31.548	15	<PQL
ICSAB4	ICSAB	1	20.88	0.93	15	PASS	22.64	0.571	15	PASS
CCV12	CCV	1	19.02	1.662	15	PASS	19.18	1.735	15	PASS
CCB12	CCB	1	0.03	118.388	15	<PQL	0.04	42.318	15	<PQL
ICSA5	ICSA	1	0.01	148.535	15	<PQL	0.02	73.123	15	<PQL
ICSAB5	ICSAB	1	19.95	2.825	15	PASS	22.65	1.59	15	PASS
MB-106652	MBLK	1	0.02	114.744	15	<PQL	0.05	22.305	15	<PQL
LCS-106652	LCS	1	9.73	1.755	15	PASS	10.06	0.426	15	PASS
N062843-001D	SAMP	1	0.31	28.406	15	<PQL	2.76	1.524	15	PASS
N062844-001D	SAMP	1	0.08	63.875	15	<PQL	3.48	1.752	15	PASS
N062845-001B	SAMP	1	0.19	59.765	15	<PQL	7.95	2.81	15	PASS
N062845-003B	SAMP	1	0.28	11.736	15	PASS	0.81	5.491	15	PASS
N062911-001C	SAMP	1	0.12	74.026	15	<PQL	12.07	1.563	15	PASS
N062911-002C	SAMP	1	0.05	120.32	15	<PQL	10.24	2.53	15	PASS
N062911-003C	SAMP	1	0.05	23.9	15	<PQL	45.12	1.172	15	PASS
N062911-003C	SAMP	5	0.02	54.463	15	<PQL	8.6	1.773	15	PASS
CCV13	CCV	1	18.82	7.346	15	PASS	19.22	1.207	15	PASS
CCB13	CCB	1	0.01	150.447	15	<PQL	0.05	11.309	15	PASS
N062911-003C-PS	PS	1	8.74	3.026	15	PASS	56.77	0.721	15	PASS
N062911-003CMS	MS	1	8.88	2.898	15	PASS	56.78	0.152	15	PASS
N062911-003CMSD	MSD	1	9.62	4.107	15	PASS	55.88	1.099	15	PASS
N062911-004C	SAMP	1	0.05	24.015	15	<PQL	81.28	0.917	15	PASS
N062911-006C	SAMP	1	0.32	9.214	15	PASS	122.39	0.282	15	PASS
N062911-007C	SAMP	1	0.04	57.597	15	<PQL	0.35	13.306	15	PASS
N062911-008C	SAMP	1	0.01	274.308	15	<PQL	5.7	3.434	15	PASS
N062911-009C	SAMP	1	0.04	28.634	15	<PQL	104.69	0.882	15	PASS
N062911-011C	SAMP	1	0.08	25.666	15	<PQL	11.98	1.862	15	PASS
CCV14	CCV	1	19.36	2.42	15	PASS	18.96	0.845	15	PASS
CCB14	CCB	1	0.01	309.517	15	<PQL	0.06	23.26	15	<PQL
ICSA6	ICSA	1	0.01	143.659	15	<PQL	0.03	27.95	15	<PQL
ICSAB6	ICSAB	1	20.77	2.002	15	PASS	22.71	2.047	15	PASS
CCV15	CCV	1	19.81	3.221	15	PASS	18.97	0.28	15	PASS
CCB15	CCB	1	0.02	85.428	15	<PQL	0.07	5.723	15	PASS
CCV16	CCV	1	19.71	3.379	15	PASS	19.01	0.82	15	PASS
CCB16	CCB	1	0	1155.262	15	<PQL	0.04	5.279	15	PASS
CCV17	CCV	1	19.95	0.708	15	PASS	18.58	0.264	15	PASS
CCB17	CCB	1	0.01	149.832	15	<PQL	0.04	20.383	15	<PQL
ICSA7	ICSA	1	0.02	145.326	15	<PQL	0.01	49.976	15	<PQL
ICSAB7	ICSAB	1	20.46	4.439	15	PASS	22.41	0.787	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	23.142	15	<PQL	0.07	18.271	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	7.677	15	PASS	0.45	11.686	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	2.555	15	PASS	4.67	2.874	15	PASS
Std4-10/100 ppb	ICAL	1	9.45	3.607	15	PASS	9.46	5.415	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	2.388	15	PASS	18.63	4.193	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.32	1.968	15	PASS	39.07	3.469	15	PASS
Std7-100/1000 ppb	ICAL	1	97.84	0.514	15	PASS	98.03	1.044	15	PASS
Std8-200/2000 ppb	ICAL	1	201.29	3.092	15	PASS	201.34	1.39	15	PASS
ICV	ICV	1	106.03	0.336	15	PASS	10.84	4.327	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	92.181	15	<PQL
LLICV1	LLICV	1	0.53	4.758	20	PASS	0.11	19.185	20	PASS
MLCCV	CCV	1	19.45	2.335	15	PASS	19.5	1.699	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	17.34	0.233	15	PASS	21.41	4.049	15	PASS
CCV1	CCV	1	18.46	2.816	15	PASS	19.84	2.089	15	PASS
CCB1	CCB	1	0	1243.702	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	17.08	1.799	15	PASS	20.7	2.269	15	PASS
CCV2	CCV	1	19.35	1.607	15	PASS	18.96	1.918	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.23	2.81	15	PASS	19.48	1.545	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0	322.314	15	<PQL
CCV4	CCV	1	19.17	2.83	15	PASS	20.3	2.047	15	PASS
CCB4	CCB	1	0	218.569	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.3	1.378	15	PASS	19.93	2.152	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	17.18	1.825	15	PASS	20.93	3.372	15	PASS
N062911-004C	SAMP	1	103.53	1.859	15	PASS	1.75	21.652	15	NR!
N062911-006C	SAMP	1	592.38	0.437	15	PASS	1.35	7.784	15	PASS
N062911-006C	SAMP	10	66.33	0.626	15	PASS	0.12	77.738	15	NR!
CCV6	CCV	1	19.01	2.232	15	PASS	19.31	0.852	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062911-004C	SAMP	1	106.76	0.994	15	PASS	1.64	13.666	15	PASS
N062911-006C	SAMP	1	591.96	0.391	15	PASS	1.6	5.513	15	PASS
N062911-004C	SAMP	1	104.42	2.465	15	PASS	1.54	29.86	15	NR!
N062911-006C	SAMP	1	591.64	0.301	15	PASS	1.11	6.814	15	PASS
CCV7	CCV	1	19.13	2.989	15	PASS	19.23	2.568	15	PASS
CCB7	CCB	1	0	1245.443	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB4	ICSAB	1	16.65	1.593	15	PASS	20.88	2.089	15	PASS
CCV8	CCV	1	19.12	1.341	15	PASS	19.84	1.722	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.27	2.031	15	PASS	19.47	3.456	15	PASS
CCB9	CCB	1	0	86.049	15	<PQL	0	591.274	15	<PQL
CCV10	CCV	1	18.98	1.694	15	PASS	19.37	3.402	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	16.94	1.921	15	PASS	20.3	1.302	15	PASS
N062911-004C	SAMP	1	104.39	1.487	15	PASS	1.69	9.017	15	PASS
N062911-006C	SAMP	1	597.42	1.219	15	PASS	1.49	15.276	15	NR!
N062911-004C	SAMP	1	106.06	0.503	15	PASS	1.86	5.084	15	PASS
N062911-006C	SAMP	1	591.39	1.297	15	PASS	1.35	35.97	15	NR!
CCV11	CCV	1	19.05	0.798	15	PASS	19.35	3.259	15	PASS
CCB11	CCB	1	0.01	171.294	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.77	0.493	15	PASS	20.59	2.393	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240207A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207001.d	RINSE	ICAL	1	02/07/24 1:04 PM
A0207002.d	RINSE	ICAL	1	02/07/24 1:09 PM
A0207003.d	Cal Blk	IBLK	1	02/07/24 1:14 PM
A0207004.d	Std1-0.1/1 ppb	ICAL	1	02/07/24 1:19 PM
A0207005.d	Std2-0.5/5 ppb	ICAL	1	02/07/24 1:23 PM
A0207006.d	Std3-5/50 ppb	ICAL	1	02/07/24 1:28 PM
A0207007.d	Std4-10/100 ppb	ICAL	1	02/07/24 1:33 PM
A0207008.d	Std5-4.0/20/200 ppb	ICAL	1	02/07/24 1:38 PM
A0207009.d	Std6-8.0/40/400 ppb	ICAL	1	02/07/24 1:42 PM
A0207010.d	Std7-100/1000 ppb	ICAL	1	02/07/24 1:47 PM
A0207011.d	Std8-200/2000 ppb	ICAL	1	02/07/24 1:52 PM
A0207012.d	ICV	ICV	1	02/07/24 2:08 PM
A0207013.d	ICB	ICB	1	02/07/24 2:13 PM
A0207014.d	LLICV1	LLICV	1	02/07/24 2:18 PM
A0207015.d	MLCCV	CCV	1	02/07/24 2:22 PM
A0207016.d	ICSA1	ICSA	1	02/07/24 2:27 PM
A0207017.d	ICSAB1	ICSAB	1	02/07/24 2:31 PM
A0207018.d	LLICV1	LLICV	1	02/07/24 2:39 PM
A0207019.d	MB-106378	MBLK	1	02/07/24 2:45 PM
A0207020.d	LCS-106378	LCS	1	02/07/24 2:49 PM
A0207021.d	N062563-001A	SAMP	1	02/07/24 2:54 PM
A0207022.d	N062563-001A	SAMP	5	02/07/24 2:59 PM
A0207023.d	N062563-001A-PS	PS	1	02/07/24 3:03 PM
A0207024.d	N062563-001A-MS	MS	1	02/07/24 3:08 PM
A0207025.d	N062563-001A-MSD	MSD	1	02/07/24 3:13 PM
A0207026.d	N062306-024A	SAMP	1	02/07/24 3:17 PM
A0207027.d	N062306-024A	SAMP	5	02/07/24 3:22 PM
A0207028.d	RINSE	ICAL	1	02/07/24 3:27 PM
A0207029.d	CCV1	CCV	1	02/07/24 3:31 PM
A0207030.d	CCB1	CCB	1	02/07/24 3:36 PM
A0207031.d	MB1-106379	MBLK	1	02/07/24 3:40 PM
A0207032.d	LCS-106379	LCS	1	02/07/24 3:45 PM
A0207033.d	N062640-001A	SAMP	1	02/07/24 3:50 PM
A0207034.d	N062640-001A	SAMP	5	02/07/24 3:54 PM
A0207035.d	N062640-001A-PS	PS	1	02/07/24 3:59 PM
A0207036.d	N062640-001A-MS	MS	1	02/07/24 4:04 PM
A0207037.d	N062640-001A-MSD	MSD	1	02/07/24 4:08 PM
A0207038.d	N062498-018A	SAMP	1	02/07/24 4:13 PM
A0207039.d	N062498-018A	SAMP	5	02/07/24 4:18 PM
A0207040.d	RINSE	ICAL	1	02/07/24 4:22 PM
A0207041.d	CCV2	CCV	1	02/07/24 4:27 PM
A0207042.d	CCB2	CCB	1	02/07/24 4:32 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0207043.d	ICSA2	ICSA	1	02/07/24 4:36 PM
A0207044.d	ICSAB2	ICSAB	1	02/07/24 4:41 PM
A0207045.d	MB-106628	MBLK	1	02/07/24 4:45 PM
A0207046.d	LCS-106628	LCS	1	02/07/24 4:50 PM
A0207047.d	N062812-001C	SAMP	1	02/07/24 4:55 PM
A0207048.d	N062812-002C	SAMP	1	02/07/24 4:59 PM
A0207049.d	N062812-003C	SAMP	1	02/07/24 5:04 PM
A0207050.d	N062812-004C	SAMP	1	02/07/24 5:09 PM
A0207051.d	RINSE	ICAL	1	02/07/24 5:13 PM
A0207052.d	CCV3	CCV	1	02/07/24 5:18 PM
A0207053.d	CCB3	CCB	1	02/07/24 5:23 PM
A0207054.d	MB-106628	MBLK	1	02/07/24 5:27 PM
A0207055.d	LCS-106628	LCS	1	02/07/24 5:32 PM
A0207056.d	N062812-001C	SAMP	1	02/07/24 5:37 PM
A0207057.d	N062812-002C	SAMP	1	02/07/24 5:41 PM
A0207058.d	N062812-003C	SAMP	1	02/07/24 5:46 PM
A0207059.d	N062812-004C	SAMP	1	02/07/24 5:51 PM
A0207060.d	N062851-001D	SAMP	1	02/07/24 5:55 PM
A0207061.d	N062851-001D	SAMP	5	02/07/24 6:00 PM
A0207062.d	N062851-001D-PS	PS	1	02/07/24 6:05 PM
A0207063.d	RINSE	ICAL	1	02/07/24 6:09 PM
A0207064.d	CCV4	CCV	1	02/07/24 6:14 PM
A0207065.d	CCB4	CCB	1	02/07/24 6:18 PM
A0207066.d	N062851-001D-MS	MS	1	02/07/24 6:23 PM
A0207067.d	N062851-001D-MSD	MSD	1	02/07/24 6:28 PM
A0207068.d	N062851-002D	SAMP	1	02/07/24 6:32 PM
A0207069.d	N062856-001A	SAMP	1	02/07/24 6:37 PM
A0207070.d	N062856-002A	SAMP	1	02/07/24 6:42 PM
A0207071.d	N062861-001D	SAMP	1	02/07/24 6:46 PM
A0207072.d	N062862-001A	SAMP	1	02/07/24 6:51 PM
A0207073.d	N062862-002A	SAMP	1	02/07/24 6:56 PM
A0207074.d	N062862-002A-MS	MS	1	02/07/24 7:00 PM
A0207075.d	RINSE	ICAL	1	02/07/24 7:05 PM
A0207076.d	CCV5	CCV	1	02/07/24 7:10 PM
A0207077.d	CCB5	CCB	1	02/07/24 7:14 PM
A0207078.d	N062862-003A	SAMP	1	02/07/24 7:19 PM
A0207079.d	N062862-004A	SAMP	1	02/07/24 7:24 PM
A0207080.d	N062863-004A	SAMP	1	02/07/24 7:28 PM
A0207081.d	N062863-005A	SAMP	1	02/07/24 7:33 PM
A0207082.d	N062863-007A	SAMP	1	02/07/24 7:38 PM
A0207083.d	N062863-008A	SAMP	1	02/07/24 7:42 PM
A0207084.d	N062863-009A	SAMP	1	02/07/24 7:47 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0207085.d	N062863-010A	SAMP	1	02/07/24 7:51 PM
A0207086.d	N062863-011A	SAMP	1	02/07/24 7:56 PM
A0207087.d	RINSE	ICAL	1	02/07/24 8:01 PM
A0207088.d	CCV6	CCV	1	02/07/24 8:05 PM
A0207089.d	CCB6	CCB	1	02/07/24 8:10 PM
A0207090.d	N062863-012A	SAMP	1	02/07/24 8:15 PM
A0207091.d	N062812-003C	SAMP	5	02/07/24 8:19 PM
A0207092.d	N062851-001D	SAMP	25	02/07/24 8:24 PM
A0207093.d	N062851-001D-PS	PS	5	02/07/24 8:29 PM
A0207094.d	N062851-001D-MS	MS	5	02/07/24 8:33 PM
A0207095.d	N062851-001D-MSD	MSD	5	02/07/24 8:38 PM
A0207096.d	N062851-002D	SAMP	5	02/07/24 8:43 PM
A0207097.d	N062862-002A	SAMP	5	02/07/24 8:47 PM
A0207098.d	N062862-002A-MS	MS	5	02/07/24 8:52 PM
A0207099.d	RINSE	ICAL	1	02/07/24 8:57 PM
A0207100.d	CCV7	CCV	1	02/07/24 9:01 PM
A0207101.d	CCB7	CCB	1	02/07/24 9:06 PM
A0207102.d	N062863-004A	SAMP	5	02/07/24 9:11 PM
A0207103.d	N062863-005A	SAMP	5	02/07/24 9:15 PM
A0207104.d	N062863-009A	SAMP	5	02/07/24 9:20 PM
A0207105.d	N062863-010A	SAMP	5	02/07/24 9:25 PM
A0207106.d	N062863-011A	SAMP	5	02/07/24 9:29 PM
A0207107.d	N062863-012A	SAMP	5	02/07/24 9:34 PM
A0207108.d	RINSE	ICAL	1	02/07/24 9:39 PM
A0207109.d	CCV8	CCV	1	02/07/24 9:43 PM
A0207110.d	CCB8	CCB	1	02/07/24 9:48 PM
A0207111.d	ICSA3	ICSA	1	02/07/24 9:53 PM
A0207112.d	ICSAB3	ICSAB	1	02/07/24 9:57 PM
A0207113.d	MB-106651	MBLK	1	02/07/24 10:02 PM
A0207114.d	LCS-106651	LCS	1	02/07/24 10:07 PM
A0207115.d	N062823-003A	SAMP	1	02/07/24 10:11 PM
A0207116.d	N062887-001D	SAMP	1	02/07/24 10:16 PM
A0207117.d	N062887-001D	SAMP	5	02/07/24 10:20 PM
A0207118.d	N062887-001D-PS	PS	1	02/07/24 10:25 PM
A0207119.d	N062887-001D-MS	MS	1	02/07/24 10:30 PM
A0207120.d	N062887-001D-MSD	MSD	1	02/07/24 10:34 PM
A0207121.d	N062887-002D	SAMP	1	02/07/24 10:39 PM
A0207122.d	RINSE	ICAL	1	02/07/24 10:44 PM
A0207123.d	CCV9	CCV	1	02/07/24 10:48 PM
A0207124.d	CCB9	CCB	1	02/07/24 10:53 PM
A0207125.d	N062894-001A	SAMP	1	02/07/24 10:58 PM
A0207126.d	N062894-001A-MS	MS	1	02/07/24 11:02 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0207127.d	N062894-002A	SAMP	1	02/07/24 11:07 PM
A0207128.d	N062894-003A	SAMP	1	02/07/24 11:12 PM
A0207129.d	N062894-004A	SAMP	1	02/07/24 11:16 PM
A0207130.d	N062894-005A	SAMP	1	02/07/24 11:21 PM
A0207131.d	N062895-001A	SAMP	1	02/07/24 11:25 PM
A0207132.d	N062895-002A	SAMP	1	02/07/24 11:30 PM
A0207133.d	N062895-003A	SAMP	1	02/07/24 11:35 PM
A0207134.d	RINSE	ICAL	1	02/07/24 11:39 PM
A0207135.d	CCV10	CCV	1	02/07/24 11:44 PM
A0207136.d	CCB10	CCB	1	02/07/24 11:49 PM
A0207137.d	N062895-004A	SAMP	1	02/07/24 11:53 PM
A0207138.d	N062907-001D	SAMP	1	02/07/24 11:58 PM
A0207139.d	RINSE	ICAL	1	02/08/24 12:03 AM
A0207140.d	CCV11	CCV	1	02/08/24 12:07 AM
A0207141.d	CCB11	CCB	1	02/08/24 12:12 AM
A0207142.d	ICSA4	ICSA	1	02/08/24 12:17 AM
A0207143.d	ICSAB4	ICSAB	1	02/08/24 12:21 AM
A0207144.d	MB-106675	MBLK	1	02/08/24 12:26 AM
A0207145.d	LCS-106675	LCS	1	02/08/24 12:31 AM
A0207146.d	N062919-001C	SAMP	1	02/08/24 12:35 AM
A0207147.d	N062919-001C	SAMP	5	02/08/24 12:40 AM
A0207148.d	N062919-001C-PS	PS	1	02/08/24 12:45 AM
A0207149.d	N062919-001C-MS	MS	1	02/08/24 12:49 AM
A0207150.d	N062919-001C-MSD	MSD	1	02/08/24 12:54 AM
A0207151.d	N062919-002C	SAMP	1	02/08/24 12:59 AM
A0207152.d	RINSE	ICAL	1	02/08/24 1:03 AM
A0207153.d	CCV12	CCV	1	02/08/24 1:08 AM
A0207154.d	CCB12	CCB	1	02/08/24 1:13 AM
A0207155.d	ICSA5	ICSA	1	02/08/24 1:17 AM
A0207156.d	ICSAB5	ICSAB	1	02/08/24 1:22 AM
A0207157.d	MB-106652	MBLK	1	02/08/24 1:27 AM
A0207158.d	LCS-106652	LCS	1	02/08/24 1:31 AM
A0207159.d	N062843-001D	SAMP	1	02/08/24 1:36 AM
A0207160.d	N062844-001D	SAMP	1	02/08/24 1:41 AM
A0207161.d	N062845-001B	SAMP	1	02/08/24 1:45 AM
A0207162.d	N062845-003B	SAMP	1	02/08/24 1:50 AM
A0207163.d	N062911-001C	SAMP	1	02/08/24 1:55 AM
A0207164.d	N062911-002C	SAMP	1	02/08/24 1:59 AM
A0207165.d	N062911-003C	SAMP	1	02/08/24 2:04 AM
A0207166.d	N062911-003C	SAMP	5	02/08/24 2:09 AM
A0207167.d	CCV13	CCV	1	02/08/24 2:13 AM
A0207168.d	CCB13	CCB	1	02/08/24 2:18 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0207169.d	N062911-003C-PS	PS	1	02/08/24 2:22 AM
A0207170.d	N062911-003CMS	MS	1	02/08/24 2:27 AM
A0207171.d	N062911-003CMSD	MSD	1	02/08/24 2:32 AM
A0207172.d	N062911-004C	SAMP	1	02/08/24 2:37 AM
A0207173.d	N062911-006C	SAMP	1	02/08/24 2:41 AM
A0207174.d	N062911-007C	SAMP	1	02/08/24 2:46 AM
A0207175.d	N062911-008C	SAMP	1	02/08/24 2:50 AM
A0207176.d	N062911-009C	SAMP	1	02/08/24 2:55 AM
A0207177.d	N062911-011C	SAMP	1	02/08/24 3:00 AM
A0207178.d	RINSE	ICAL	1	02/08/24 3:05 AM
A0207179.d	CCV14	CCV	1	02/08/24 3:09 AM
A0207180.d	CCB14	CCB	1	02/08/24 3:14 AM
A0207181.d	ICSA6	ICSA	1	02/08/24 3:18 AM
A0207182.d	ICSAB6	ICSAB	1	02/08/24 3:23 AM
A0207183.d	MB-106670	MBLK	1	02/08/24 3:28 AM
A0207184.d	LCS-106670	LCS	1	02/08/24 3:32 AM
A0207185.d	N062938-001C	SAMP	1	02/08/24 3:37 AM
A0207186.d	N062938-002C	SAMP	1	02/08/24 3:42 AM
A0207187.d	N062938-003C	SAMP	1	02/08/24 3:46 AM
A0207188.d	N062938-004C	SAMP	1	02/08/24 3:51 AM
A0207189.d	N062938-004C	SAMP	5	02/08/24 3:56 AM
A0207190.d	N062938-004C-PS	PS	1	02/08/24 4:00 AM
A0207191.d	N062938-004C-MS	MS	1	02/08/24 4:05 AM
A0207192.d	RINSE	ICAL	1	02/08/24 4:10 AM
A0207193.d	CCV15	CCV	1	02/08/24 4:14 AM
A0207194.d	CCB15	CCB	1	02/08/24 4:19 AM
A0207195.d	N062938-004C-MSD	MSD	1	02/08/24 4:24 AM
A0207196.d	N062938-005C	SAMP	1	02/08/24 4:28 AM
A0207197.d	N062938-006C	SAMP	1	02/08/24 4:33 AM
A0207198.d	N062938-007C	SAMP	1	02/08/24 4:38 AM
A0207199.d	N062938-008C	SAMP	1	02/08/24 4:42 AM
A0207200.d	N062938-010C	SAMP	1	02/08/24 4:47 AM
A0207201.d	N062938-012C	SAMP	1	02/08/24 4:52 AM
A0207202.d	N062938-013C	SAMP	1	02/08/24 4:56 AM
A0207203.d	N062938-014C	SAMP	1	02/08/24 5:01 AM
A0207204.d	RINSE	ICAL	1	02/08/24 5:06 AM
A0207205.d	CCV16	CCV	1	02/08/24 5:10 AM
A0207206.d	CCB16	CCB	1	02/08/24 5:15 AM
A0207207.d	N062938-015C	SAMP	1	02/08/24 5:20 AM
A0207208.d	N062938-016C	SAMP	1	02/08/24 5:24 AM
A0207209.d	N062938-017C	SAMP	1	02/08/24 5:29 AM
A0207210.d	N062938-017C	SAMP	10	02/08/24 5:34 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0207211.d	N062938-018C	SAMP	1	02/08/24 5:38 AM
A0207212.d	RINSE	ICAL	1	02/08/24 5:43 AM
A0207213.d	CCV17	CCV	1	02/08/24 5:47 AM
A0207214.d	CCB17	CCB	1	02/08/24 5:52 AM
A0207215.d	ICSA7	ICSA	1	02/08/24 5:57 AM
A0207216.d	ICSAB7	ICSAB	1	02/08/24 6:01 AM
A0207217.d	RINSE	ICAL	1	02/08/24 6:06 AM
A0207218.d	RINSE	ICAL	1	02/08/24 6:11 AM
A0207219.d	RINSE	ICAL	1	02/08/24 6:15 AM
A0207220.d	RINSE	ICAL	1	02/08/24 6:20 AM
A0207221.d	RINSE	ICAL	1	02/08/24 6:25 AM
A0207222.d	RINSE	ICAL	1	02/08/24 6:29 AM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0208001.d	RINSE	ICAL	1	02/08/24 3:37 PM
A0208003.d	Cal Blk	IBLK	1	02/08/24 3:41 PM
A0208004.d	Std1-0.1/1 ppb	ICAL	1	02/08/24 3:46 PM
A0208005.d	Std2-0.5/5 ppb	ICAL	1	02/08/24 3:51 PM
A0208006.d	Std3-5/50 ppb	ICAL	1	02/08/24 3:56 PM
A0208007.d	Std4-10/100 ppb	ICAL	1	02/08/24 4:01 PM
A0208008.d	Std5-4.0/20/200 ppb	ICAL	1	02/08/24 4:05 PM
A0208009.d	Std6-8.0/40/400 ppb	ICAL	1	02/08/24 4:10 PM
A0208010.d	Std7-100/1000 ppb	ICAL	1	02/08/24 4:15 PM
A0208011.d	Std8-200/2000 ppb	ICAL	1	02/08/24 4:20 PM
A0208012.d	ICV	ICV	1	02/08/24 4:30 PM
A0208013.d	ICB	ICB	1	02/08/24 4:34 PM
A0208014.d	LLICV1	LLICV	1	02/08/24 4:39 PM
A0208015.d	MLCCV	CCV	1	02/08/24 4:45 PM
A0208016.d	ICSA1	ICSA	1	02/08/24 4:50 PM
A0208017.d	ICSAB1	ICSAB	1	02/08/24 4:54 PM
A0208018.d	MB-106672	MBLK	1	02/08/24 5:16 PM
A0208019.d	LCS-106672	LCS	1	02/08/24 5:20 PM
A0208020.d	N062802-001E	SAMP	1	02/08/24 5:25 PM
A0208021.d	N062802-001E	SAMP	5	02/08/24 5:30 PM
A0208022.d	N062802-001E-PS	PS	1	02/08/24 5:34 PM
A0208023.d	N062802-001E-MS	MS	1	02/08/24 5:39 PM
A0208024.d	N062802-001E-MSD	MSD	1	02/08/24 5:44 PM
A0208025.d	N062843-001D	SAMP	1	02/08/24 5:48 PM
A0208026.d	RINSE	ICAL	1	02/08/24 5:53 PM
A0208027.d	CCV1	CCV	1	02/08/24 5:58 PM
A0208028.d	CCB1	CCB	1	02/08/24 6:02 PM
A0208029.d	ICSA2	ICSA	1	02/08/24 6:07 PM
A0208030.d	ICSAB2	ICSAB	1	02/08/24 6:12 PM
A0208031.d	N062863-004A	SAMP	25	02/08/24 6:17 PM
A0208032.d	N062863-005A	SAMP	25	02/08/24 6:22 PM
A0208033.d	N062863-009A	SAMP	25	02/08/24 6:27 PM
A0208034.d	N062863-010A	SAMP	25	02/08/24 6:31 PM
A0208035.d	N062823-003A	SAMP	25	02/08/24 6:36 PM
A0208036.d	N062887-001D	SAMP	5	02/08/24 6:40 PM
A0208037.d	N062887-001D	SAMP	25	02/08/24 6:45 PM
A0208038.d	N062887-001D-PS	PS	5	02/08/24 6:50 PM
A0208039.d	N062887-001D-MS	MS	5	02/08/24 6:54 PM
A0208040.d	N062887-001D-MSD	MSD	5	02/08/24 6:59 PM
A0208041.d	CCV2	CCV	1	02/08/24 7:04 PM
A0208042.d	CCB2	CCB	1	02/08/24 7:08 PM
A0208043.d	N062887-002D	SAMP	5	02/08/24 7:13 PM

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Data File	Sample Name	Type	DF	Acq. Date-Time
A0208044.d	N062894-001A	SAMP	5	02/08/24 7:18 PM
A0208045.d	N062894-001A-MS	MS	5	02/08/24 7:22 PM
A0208046.d	N062894-003A	SAMP	5	02/08/24 7:27 PM
A0208047.d	N062894-005A	SAMP	5	02/08/24 7:32 PM
A0208048.d	N062895-002A	SAMP	5	02/08/24 7:36 PM
A0208049.d	CCV3	CCV	1	02/08/24 7:41 PM
A0208050.d	CCB3	CCB	1	02/08/24 7:46 PM
A0208051.d	MB-106675	MBLK	1	02/08/24 7:50 PM
A0208052.d	LCS-106675	LCS	1	02/08/24 7:55 PM
A0208053.d	N062919-001C	SAMP	1	02/08/24 8:00 PM
A0208054.d	N062919-001C	SAMP	5	02/08/24 8:04 PM
A0208055.d	N062919-001C	SAMP	25	02/08/24 8:09 PM
A0208056.d	N062919-001C-PS	PS	1	02/08/24 8:14 PM
A0208057.d	N062919-001C-PS	PS	5	02/08/24 8:18 PM
A0208058.d	N062919-001C-MS	MS	1	02/08/24 8:23 PM
A0208059.d	N062919-001C-MS	MS	5	02/08/24 8:28 PM
A0208060.d	CCV4	CCV	1	02/08/24 8:32 PM
A0208061.d	CCB4	CCB	1	02/08/24 8:37 PM
A0208062.d	N062919-001C-MSD	MSD	1	02/08/24 8:42 PM
A0208063.d	N062919-001C-MSD	MSD	5	02/08/24 8:46 PM
A0208064.d	N062919-002C	SAMP	1	02/08/24 8:51 PM
A0208065.d	RINSE	ICAL	1	02/08/24 8:56 PM
A0208066.d	CCV5	CCV	1	02/08/24 9:00 PM
A0208067.d	CCB5	CCB	1	02/08/24 9:05 PM
A0208068.d	ICSA3	ICSA	1	02/08/24 9:10 PM
A0208069.d	ICSAB3	ICSAB	1	02/08/24 9:14 PM
A0208070.d	N062911-004C	SAMP	1	02/08/24 9:19 PM
A0208071.d	N062911-006C	SAMP	1	02/08/24 9:24 PM
A0208072.d	N062911-006C	SAMP	10	02/08/24 9:28 PM
A0208073.d	N062938-004C	SAMP	1	02/08/24 9:33 PM
A0208074.d	N062938-004C	SAMP	5	02/08/24 9:38 PM
A0208075.d	N062938-008C	SAMP	1	02/08/24 9:42 PM
A0208076.d	N062938-012C	SAMP	10	02/08/24 9:47 PM
A0208077.d	N062938-013C	SAMP	10	02/08/24 9:52 PM
A0208078.d	N062938-017C	SAMP	1	02/08/24 9:56 PM
A0208079.d	N062938-018C	SAMP	10	02/08/24 10:01 PM
A0208080.d	CCV6	CCV	1	02/08/24 10:05 PM
A0208081.d	CCB6	CCB	1	02/08/24 10:10 PM
A0208082.d	N062911-004C	SAMP	1	02/08/24 10:15 PM
A0208083.d	N062911-006C	SAMP	1	02/08/24 10:20 PM
A0208084.d	N062938-004C	SAMP	1	02/08/24 10:24 PM
A0208085.d	N062938-008C	SAMP	1	02/08/24 10:29 PM

INJECTION LOG: 240208A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208086.d	N062938-017C	SAMP	1	02/08/24 10:33 PM
A0208087.d	N062911-004C	SAMP	1	02/08/24 10:38 PM
A0208088.d	N062911-006C	SAMP	1	02/08/24 10:43 PM
A0208089.d	N062938-004C	SAMP	1	02/08/24 10:48 PM
A0208090.d	N062938-008C	SAMP	1	02/08/24 10:52 PM
A0208091.d	N062938-017C	SAMP	1	02/08/24 10:57 PM
A0208092.d	CCV7	CCV	1	02/08/24 11:01 PM
A0208093.d	CCB7	CCB	1	02/08/24 11:06 PM
A0208094.d	ICSA4	ICSA	1	02/08/24 11:11 PM
A0208095.d	ICSAB4	ICSAB	1	02/08/24 11:15 PM
A0208096.d	MB-106696	MBLK	1	02/08/24 11:20 PM
A0208097.d	LCS-106696	LCS	1	02/08/24 11:25 PM
A0208098.d	N062495-015D	SAMP	1	02/08/24 11:29 PM
A0208099.d	N062495-015D	SAMP	5	02/08/24 11:34 PM
A0208100.d	N062966-001C	SAMP	1	02/08/24 11:39 PM
A0208101.d	N062966-001C	SAMP	5	02/08/24 11:43 PM
A0208102.d	N062966-001C-PS	PS	1	02/08/24 11:48 PM
A0208103.d	N062966-001CMS	MS	1	02/08/24 11:53 PM
A0208104.d	N062966-001CMSD	MSD	1	02/08/24 11:57 PM
A0208105.d	RINSE	RINSE	1	02/09/24 12:02 AM
A0208106.d	CCV8	CCV	1	02/09/24 12:07 AM
A0208107.d	CCB8	CCB	1	02/09/24 12:11 AM
A0208108.d	N062966-003C	SAMP	1	02/09/24 12:16 AM
A0208109.d	N062966-005C	SAMP	1	02/09/24 12:21 AM
A0208110.d	N062966-006C	SAMP	1	02/09/24 12:25 AM
A0208111.d	N062966-008C	SAMP	1	02/09/24 12:30 AM
A0208112.d	N062966-009C	SAMP	1	02/09/24 12:34 AM
A0208113.d	N062966-010C	SAMP	1	02/09/24 12:39 AM
A0208114.d	N062966-012C	SAMP	1	02/09/24 12:44 AM
A0208115.d	N062966-013C	SAMP	1	02/09/24 12:48 AM
A0208116.d	N062966-014C	SAMP	1	02/09/24 12:53 AM
A0208117.d	RINSE	RINSE	1	02/09/24 12:58 AM
A0208118.d	CCV9	CCV	1	02/09/24 1:02 AM
A0208119.d	CCB9	CCB	1	02/09/24 1:07 AM
A0208120.d	N062966-015C	SAMP	1	02/09/24 1:11 AM
A0208121.d	N062966-016C	SAMP	1	02/09/24 1:16 AM
A0208122.d	N062966-017C	SAMP	1	02/09/24 1:21 AM
A0208123.d	N062966-017C	SAMP	5	02/09/24 1:25 AM
A0208124.d	N062966-017C-PS	PS	1	02/09/24 1:30 AM
A0208125.d	N062966-017CMS	MS	1	02/09/24 1:35 AM
A0208126.d	N062966-017CMSD	MSD	1	02/09/24 1:39 AM
A0208127.d	N062966-018C	SAMP	1	02/09/24 1:44 AM

INJECTION LOG: 240208A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208128.d	N062966-019C	SAMP	1	02/09/24 1:49 AM
A0208129.d	N062966-020C	SAMP	1	02/09/24 1:53 AM
A0208130.d	CCV10	CCV	1	02/09/24 1:58 AM
A0208131.d	CCB10	CCB	1	02/09/24 2:03 AM
A0208132.d	ICSA5	ICSA	1	02/09/24 2:07 AM
A0208133.d	ICSAB5	ICSAB	1	02/09/24 2:12 AM
A0208134.d	N062911-004C	SAMP	1	02/09/24 2:16 AM
A0208135.d	N062911-006C	SAMP	1	02/09/24 2:21 AM
A0208136.d	N062938-004C	SAMP	1	02/09/24 2:26 AM
A0208137.d	N062938-008C	SAMP	1	02/09/24 2:31 AM
A0208138.d	N062938-017C	SAMP	1	02/09/24 2:35 AM
A0208139.d	N062911-004C	SAMP	1	02/09/24 2:40 AM
A0208140.d	N062911-006C	SAMP	1	02/09/24 2:44 AM
A0208141.d	N062938-004C	SAMP	1	02/09/24 2:49 AM
A0208142.d	N062938-008C	SAMP	1	02/09/24 2:54 AM
A0208143.d	N062938-017C	SAMP	1	02/09/24 2:59 AM
A0208144.d	CCV11	CCV	1	02/09/24 3:03 AM
A0208145.d	CCB11	CCB	1	02/09/24 3:08 AM
A0208146.d	ICSA6	ICSA	1	02/09/24 3:12 AM
A0208147.d	ICSAB6	ICSAB	1	02/09/24 3:17 AM
A0208148.d	RINSE	ICAL	1	02/09/24 3:22 AM
A0208149.d	RINSE	ICAL	1	02/09/24 3:26 AM
A0208150.d	RINSE	ICAL	1	02/09/24 3:31 AM
A0208151.d	RINSE	ICAL	1	02/09/24 3:36 AM
A0208152.d	RINSE	ICAL	1	02/09/24 3:40 AM

SAMPLE PREPARATION LOG



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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/6/2024 11:18:06 AM

Reviewed/ Date: *JRB* 2/29/2024

Page: 1 of 2

Prep End Date: 2/6/2024 3:30:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106652 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL 95 DB-01-25

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106652	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106652	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062843-001D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062844-001D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062845-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062845-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-003CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **2/6/2024 11:18:06 AM**

Reviewed/ Date: JRB 2/29/2024

Page: 2 of 2

Prep End Date: **2/6/2024 3:30:00 PM**

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch **106652** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL

95 DB-01-25

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062911-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062911-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240206A.b
Acq. Date-Time 2024-02-07 13:00:10
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7100	70999.51	500.00		1.740	5.000
24	10.00	18730	187295.91	500.00		2.368	5.000
25	10.00	2507	25067.59	500.00		3.647	5.000
26	10.00	2901	29008.63	500.00		2.870	5.000
59	10.00	28347	283474.29	500.00		2.511	5.000
115	10.00	31946	319457.96	500.00		2.149	5.000
206	10.00	5595	55947.67	500.00		2.117	5.000
207	10.00	4703	47027.48	500.00		2.037	5.000
208	10.00	11494	114937.25	500.00		2.143	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.499 %
Doubly Charged 70 / 140 1.112 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7326.46	8.95	8.90 - 9.10	
24	19186.71	23.90	23.90 - 24.10	
25	2588.79	24.90	24.90 - 25.10	
26	2959.41	25.90	25.90 - 26.10	
59	27955.60	58.95	58.90 - 59.10	
115	30962.92	115.00	114.90 - 115.10	
206	5523.45	205.95	205.90 - 206.10	
207	4879.93	206.95	206.90 - 207.10	
208	12272.95	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.39	0.495	0.900	
25	0.39	0.492	0.900	
26	0.41	0.534	0.900	
59	0.38	0.530	0.900	
115	0.33	0.479	0.900	
206	0.36	0.539	0.900	
207	0.36	0.552	0.900	
208	0.36	0.557	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2514 V Pulse HV 1592 V

[H2]

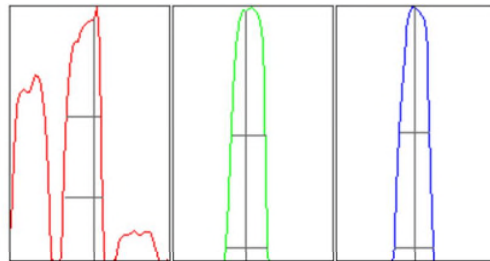
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		173	1730.69			15.009	
59		2861	28608.97			13.078	
115		29145	291453.72			12.220	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.423 %
 Doubly Charged 70 / 140 0.348 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	197.77	26.10	25.90 - 26.10	
59	3058.20	58.90	58.90 - 59.10	
115	31637.60	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.737	0.900	
59	0.64	0.781	0.900	
115	0.58	0.735	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1592 V
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[He]

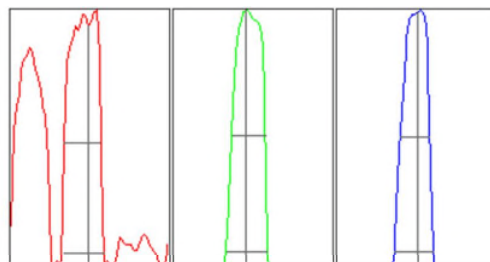
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		71	710.42			13.663	
59		5885	58854.68			2.106	
115		5308	53078.35			2.416	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.165 %
Doubly Charged	70 / 140 1.247 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	69.25	26.00	25.90 - 26.10	
59	5931.47	58.90	58.90 - 59.10	
115	5345.39	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.790	0.900	
59	0.64	0.780	0.900	
115	0.57	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1592 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240207A.b
Acq. Date-Time 2024-02-08 11:58:38
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

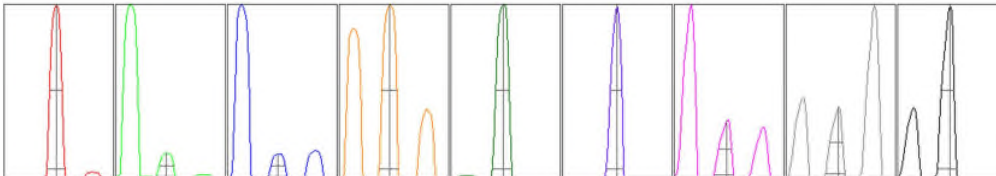
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6293	62927.79	500.00		2.159	5.000
24	10.00	18505	185047.37	500.00		2.235	5.000
25	10.00	2469	24686.83	500.00		3.042	5.000
26	10.00	2844	28443.28	500.00		2.716	5.000
59	10.00	28640	286397.98	500.00		1.778	5.000
115	10.00	34347	343465.47	500.00		1.897	5.000
206	10.00	6035	60350.55	500.00		2.366	5.000
207	10.00	5122	51223.45	500.00		2.256	5.000
208	10.00	12495	124949.23	500.00		2.335	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.533 %
Doubly Charged 70 / 140 0.932 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6542.86	8.95	8.90 - 9.10	
24	19479.13	23.90	23.90 - 24.10	
25	2567.75	24.90	24.90 - 25.10	
26	2967.68	25.90	25.90 - 26.10	
59	28845.91	58.95	58.90 - 59.10	
115	34318.53	115.00	114.90 - 115.10	
206	5965.69	205.95	205.90 - 206.10	
207	5341.53	206.95	206.90 - 207.10	
208	13316.16	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.39	0.494	0.900	
25	0.39	0.493	0.900	
26	0.41	0.533	0.900	
59	0.37	0.528	0.900	
115	0.33	0.477	0.900	
206	0.37	0.539	0.900	
207	0.36	0.554	0.900	
208	0.36	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2516 V Pulse HV 1593 V

[H2]

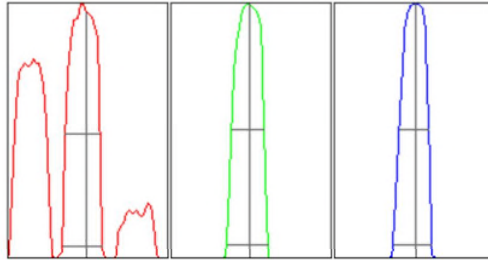
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		169	1694.08			9.901	
59		2318	23184.55			3.522	
115		29580	295798.80			2.689	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.480 %
 Doubly Charged 70 / 140 0.311 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	176.02	26.00	25.90 - 26.10	
59	2468.17	59.00	58.90 - 59.10	
115	31248.37	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.745	0.900	
59	0.62	0.779	0.900	
115	0.57	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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[He]

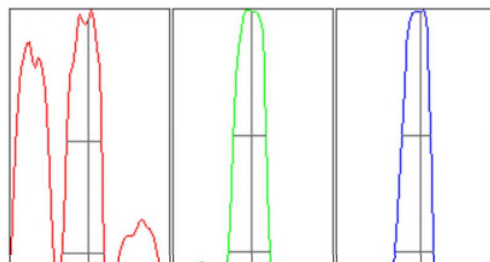
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		78	780.42			12.313	
59		6407	64068.48			1.994	
115		5210	52102.35			2.618	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.193 %
Doubly Charged	70 / 140 1.242 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	74.50	26.00	25.90 - 26.10	
59	6497.64	59.00	58.90 - 59.10	
115	5256.32	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.782	0.900	
59	0.62	0.779	0.900	
115	0.55	0.728	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

480

INITIAL CALIBRATION SUMMARY: 240207A

Instrument ID: ICPMS-03

Analyte	Data File	A0207003.d	A0207004.d	A0207005.d	A0207006.d	A0207007.d	A0207008.d	A0207009.d	A0207010.d	A0207011.d	
	Acq. Date-Time	02/07/2024 01:14 PM	02/07/2024 01:19 PM	02/07/2024 01:23 PM	02/07/2024 01:28 PM	02/07/2024 01:33 PM	02/07/2024 01:38 PM	02/07/2024 01:42 PM	02/07/2024 01:47 PM	02/07/2024 01:52 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	44837.8	44274	43968.9	44277.4	43866.4	44270.7	44068	43572.2		
55 Mn [2]	CPS	67.6		831.9	7514.1	15249.8	30342	61498.2	155468	314384	0.9999
52 Cr [2]	CPS	371.1		1619	14686.5	29121.1	57984.2	118070.7	296129.6	601406.6	0.9999
72 Ge (ISTD) [1]	CPS	82865.2		80640.9	81260.4	80645.2	80107	80217.8	80398.5	80538	
78 Se [1]	CPS	1.1		90	1007.8	2102.4	4050.5	8171	20724.3	41737.8	1.0000
72 Ge (ISTD) [2]	CPS	25199.5	24863.3	24665.3	24937.9	24404.9	24428.2	24322.5	24557.3	25133.7	
75 As [2]	CPS	11.1	37.7	168.9	1600	3500.3	6740.1	13752.1	34554.5	71249.6	1.0000
103 Rh (ISTD) [2]	CPS	634704.1		629066.3	633277.1	626545.8	633086	637402.8	640309.4	633331.8	
95 Mo [2]	CPS	10		748.9	7120.5	14562.2	29404.6	59867.8	151994.2	312430.5	0.9998
159 Tb (ISTD) [3]	CPS	1650367		1652749.7	1662669.4	1671017.5	1701483.3	1687094.2	1714679	1713262.9	
137 Ba [3]	CPS	53.3		1540.1	15344.5	31829.4	62753.4	129639.7	328548	671306.1	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240208A

Instrument ID: ICPMS-03

Analyte	Data File	A0208003.d	A0208004.d	A0208005.d	A0208006.d	A0208007.d	A0208008.d	A0208009.d	A0208010.d	A0208011.d	
	Acq. Date-Time	02/08/2024 03:41 PM	02/08/2024 03:46 PM	02/08/2024 03:51 PM	02/08/2024 03:56 PM	02/08/2024 04:01 PM	02/08/2024 04:05 PM	02/08/2024 04:10 PM	02/08/2024 04:15 PM	02/08/2024 04:20 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	36159.1		36968.7	36715.9	37205.8	36536.6	37189.1	37655.7	37338.3	
55 Mn [2]	CPS	38.7		590.9	6129.8	12295	24970.6	50995.6	128443.3	261949.6	0.9999
72 Ge (ISTD) [2]	CPS	21180.4	21385.1	21341.7	21078	21330.6	21786.7	21694.4	21718.9	21622.1	
75 As [2]	CPS	10	30	145.5	1386.7	2827.9	5681.9	11855.1	29765.2	60854.8	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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3151 W. Post Rd., Las Vegas, NV 89118
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680449							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.558	0.10	10.00	0	106	90	110				
Barium	10.206	1.0	10.00	0	102	90	110				
Manganese	104.034	0.50	100.0	0	104	90	110				
Molybdenum	10.361	0.50	10.00	0	104	90	110				
Selenium	10.388	0.50	10.00	0	104	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ZZZZZZ	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680451							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.089	0.10	0.1000	0	88.9	80	120				
Barium	1.016	1.0	1.000	0	102	80	120				
Manganese	0.537	0.50	0.5000	0	107	80	120				
Molybdenum	0.558	0.50	0.5000	0	112	80	120				
Selenium	0.462	0.50	0.5000	0	92.4	80	120				

Sample ID MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680452							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.392	0.10	20.00	0	97.0	90	110				
Barium	19.074	1.0	20.00	0	95.4	90	110				
Manganese	19.103	0.50	20.00	0	95.5	90	110				
Molybdenum	18.849	0.50	20.00	0	94.2	90	110				
Selenium	19.661	0.50	20.00	0	98.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.459	0.10	20.00	0	107	90	110				
Barium	21.283	1.0	20.00	0	106	90	110				
Manganese	16.973	0.50	20.00	0	84.9	90	110				S
Molybdenum	22.790	0.50	20.00	0	114	90	110				S
Selenium	20.506	0.50	20.00	0	103	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.354	0.10	20.00	0	107	90	110				
Barium	21.410	1.0	20.00	0	107	90	110				
Manganese	16.965	0.50	20.00	0	84.8	90	110				S
Molybdenum	22.597	0.50	20.00	0	113	90	110				S
Selenium	20.464	0.50	20.00	0	102	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680486							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.660	0.10	20.00	0	98.3	90	110				
Barium	20.034	1.0	20.00	0	100	90	110				
Manganese	19.193	0.50	20.00	0	96.0	90	110				
Molybdenum	19.287	0.50	20.00	0	96.4	90	110				
Selenium	18.921	0.50	20.00	0	94.6	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

%Rec of Mn and Mo in CCV1 and CCV2 failed, low and high bias. However, samples are reported within CCV12/CCB12 to CCV14/CB14.

Mamy 2/25/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680497						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.244	0.10	20.00	0	96.2	90	110				
Barium	19.903	1.0	20.00	0	99.5	90	110				
Manganese	19.206	0.50	20.00	0	96.0	90	110				
Molybdenum	18.784	0.50	20.00	0	93.9	90	110				
Selenium	19.459	0.50	20.00	0	97.3	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680508						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.132	0.10	20.00	0	95.7	90	110				
Barium	19.776	1.0	20.00	0	98.9	90	110				
Manganese	19.233	0.50	20.00	0	96.2	90	110				
Molybdenum	19.030	0.50	20.00	0	95.1	90	110				
Selenium	18.919	0.50	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.962	0.10	20.00	0	94.8	90	110				
Barium	19.492	1.0	20.00	0	97.5	90	110				
Manganese	18.996	0.50	20.00	0	95.0	90	110				
Molybdenum	19.016	0.50	20.00	0	95.1	90	110				
Selenium	19.209	0.50	20.00	0	96.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680530							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.428	0.10	20.00	0	97.1	90	110				
Barium	19.468	1.0	20.00	0	97.3	90	110				
Manganese	19.155	0.50	20.00	0	95.8	90	110				
Molybdenum	19.305	0.50	20.00	0	96.5	90	110				
Selenium	19.450	0.50	20.00	0	97.2	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680538							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.427	0.10	20.00	0	97.1	90	110				
Barium	19.428	1.0	20.00	0	97.1	90	110				
Manganese	19.238	0.50	20.00	0	96.2	90	110				
Molybdenum	18.840	0.50	20.00	0	94.2	90	110				
Selenium	18.853	0.50	20.00	0	94.3	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680551							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.191	0.10	20.00	0	96.0	90	110				
Barium	19.738	1.0	20.00	0	98.7	90	110				
Manganese	19.467	0.50	20.00	0	97.3	90	110				
Molybdenum	18.971	0.50	20.00	0	94.9	90	110				
Selenium	19.022	0.50	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680562							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.156	0.10	20.00	0	95.8	90	110				
Barium	19.574	1.0	20.00	0	97.9	90	110				
Manganese	19.017	0.50	20.00	0	95.1	90	110				
Molybdenum	18.823	0.50	20.00	0	94.1	90	110				
Selenium	19.132	0.50	20.00	0	95.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680566							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.909	0.10	20.00	0	94.5	90	110				
Barium	19.808	1.0	20.00	0	99.0	90	110				
Manganese	19.011	0.50	20.00	0	95.1	90	110				
Molybdenum	19.087	0.50	20.00	0	95.4	90	110				
Selenium	19.644	0.50	20.00	0	98.2	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680578							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.422	0.10	20.00	0	97.1	90	110				
Barium	20.186	1.0	20.00	0	101	90	110				
Manganese	19.193	0.50	20.00	0	96.0	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	19.015	0.50	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680592							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.749	0.10	20.00	0	93.7	90	110				
Barium	20.171	1.0	20.00	0	101	90	110				
Manganese	19.156	0.50	20.00	0	95.8	90	110				
Molybdenum	19.218	0.50	20.00	0	96.1	90	110				
Selenium	18.816	0.50	20.00	0	94.1	90	110				

Sample ID CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680603							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.837	0.10	20.00	0	94.2	90	110				
Barium	20.085	1.0	20.00	0	100	90	110				
Manganese	19.011	0.50	20.00	0	95.1	90	110				
Molybdenum	18.962	0.50	20.00	0	94.8	90	110				
Selenium	19.361	0.50	20.00	0	96.8	90	110				

Sample ID CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680616							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.104	0.10	20.00	0	95.5	90	110				
Barium	20.059	1.0	20.00	0	100	90	110				
Manganese	18.819	0.50	20.00	0	94.1	90	110				
Molybdenum	18.970	0.50	20.00	0	94.9	90	110				
Selenium	19.806	0.50	20.00	0	99.0	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680627							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.857	0.10	20.00	0	94.3	90	110				
Barium	20.127	1.0	20.00	0	101	90	110				
Manganese	18.835	0.50	20.00	0	94.2	90	110				
Molybdenum	19.014	0.50	20.00	0	95.1	90	110				
Selenium	19.706	0.50	20.00	0	98.5	90	110				

Sample ID CCV17	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680634							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.004	0.10	20.00	0	95.0	90	110				
Barium	20.235	1.0	20.00	0	101	90	110				
Manganese	18.730	0.50	20.00	0	93.6	90	110				
Molybdenum	18.580	0.50	20.00	0	92.9	90	110				
Selenium	19.955	0.50	20.00	0	99.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682522						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.844	0.10	10.00	0	108	90	110				
Manganese	106.034	0.50	100.0	0	106	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ZZZZZ	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682524						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.108	0.10	0.1000	0	108	80	120				
Manganese	0.531	0.50	0.5000	0	106	80	120				

Sample ID MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.496	0.10	20.00	0	97.5	90	110				
Manganese	19.454	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.842	0.10	20.00	0	99.2	90	110				
Manganese	18.461	0.50	20.00	0	92.3	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.960	0.10	20.00	0	94.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682550							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.351	0.50	20.00	0	96.8	90	110				
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682558							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.478	0.10	20.00	0	97.4	90	110				
Manganese	19.225	0.50	20.00	0	96.1	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682569							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.296	0.10	20.00	0	101	90	110				
Manganese	19.174	0.50	20.00	0	95.9	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.925	0.10	20.00	0	99.6	90	110				
Manganese	19.296	0.50	20.00	0	96.5	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682588							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.309	0.10	20.00	0	96.5	90	110				
Manganese	19.012	0.50	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682600							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.228	0.10	20.00	0	96.1	90	110				
Manganese	19.128	0.50	20.00	0	95.6	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682613							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.843	0.10	20.00	0	99.2	90	110				
Manganese	19.123	0.50	20.00	0	95.6	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682624							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.470	0.10	20.00	0	97.4	90	110				
Manganese	19.274	0.50	20.00	0	96.4	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682636							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.371	0.10	20.00	0	96.9	90	110				
Manganese	18.982	0.50	20.00	0	94.9	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682650							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.350	0.10	20.00	0	96.7	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682650							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.049	0.50	20.00	0	95.2	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICV	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.373	1.0	10.00	0	104	90	110				
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Sample ID LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ZZZZZZ	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	1.015	1.0	1.000	0	101	80	120				
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Sample ID MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.310	1.0	20.00	0	96.6	90	110				
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Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.383	1.0	20.00	0	102	90	110				
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Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.362	1.0	20.00	0	102	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.207	1.0	20.00	0	96.0	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680694							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.218	1.0	20.00	0	96.1	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680705							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.212	1.0	20.00	0	96.1	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.246	1.0	20.00	0	96.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680727							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.106	1.0	20.00	0	95.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680735							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.514	1.0	20.00	0	97.6	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680748							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.462	1.0	20.00	0	97.3	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680759							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.235	1.0	20.00	0	96.2	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680763							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.031	1.0	20.00	0	95.2	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680775							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.285	1.0	20.00	0	96.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV13	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680789	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.255	1.0	20.00	0	96.3	90	110
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Sample ID CCV14	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680800	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.448	1.0	20.00	0	97.2	90	110
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Sample ID CCV15	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680813	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.444	1.0	20.00	0	97.2	90	110
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Sample ID CCV16	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680824	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.562	1.0	20.00	0	97.8	90	110
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Sample ID CCV17	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680831	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.308	1.0	20.00	0	96.5	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680450							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	0.055	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680466							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680477							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680498						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680579						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680593						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680617	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680628	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680635	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682523						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682537						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682625	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682637	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682651	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID:	ICB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680647							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium

ND 1.0

Sample ID	CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID:	CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680663							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium

ND 1.0

Sample ID	CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID:	CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680674							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium

ND 1.0

Sample ID	CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID:	CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680684							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium

ND 1.0

Sample ID	CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID:	CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680695							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium

ND 1.0

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680717						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680728						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680760						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680764						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680776						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB14	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB15	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680814	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB16	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680825	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB17	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680832	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680453							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680454							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	21.279	0.10	20.00	0	106	80	120				
Barium	21.424	1.0	20.00	0	107	80	120				
Manganese	16.810	0.50	20.00	0	84.1	80	120				
Molybdenum	23.033	0.50	20.00	0	115	80	120				
Selenium	20.081	0.50	20.00	0	100	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680478							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680479							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.993	0.10	20.00	0	105	80	120				
Barium	21.659	1.0	20.00	0	108	80	120				
Manganese	17.012	0.50	20.00	0	85.1	80	120				
Molybdenum	23.094	0.50	20.00	0	115	80	120				
Selenium	19.926	0.50	20.00	0	99.6	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680540							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680541							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	21.279	0.10	20.00	0	106	80	120				
Barium	21.354	1.0	20.00	0	107	80	120				
Manganese	16.976	0.50	20.00	0	84.9	80	120				
Molybdenum	22.858	0.50	20.00	0	114	80	120				
Selenium	20.485	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680568							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680569							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.967	0.10	20.00	0	105	80	120				
Barium	21.522	1.0	20.00	0	108	80	120				
Manganese	16.754	0.50	20.00	0	83.8	80	120				
Molybdenum	22.641	0.50	20.00	0	113	80	120				
Selenium	20.880	0.50	20.00	0	104	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680580							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680581							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.064	0.10	20.00	0	105	80	120				
Barium	21.669	1.0	20.00	0	108	80	120				
Manganese	16.880	0.50	20.00	0	84.4	80	120				
Molybdenum	22.653	0.50	20.00	0	113	80	120				
Selenium	19.953	0.50	20.00	0	99.8	80	120				

Sample ID ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680605							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB6	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680606							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.225	0.10	20.00	0	106	80	120				
Barium	21.604	1.0	20.00	0	108	80	120				
Manganese	16.730	0.50	20.00	0	83.6	80	120				
Molybdenum	22.705	0.50	20.00	0	114	80	120				
Selenium	20.766	0.50	20.00	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB7	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.706	0.10	20.00	0	104	80	120				
Barium	21.773	1.0	20.00	0	109	80	120				
Manganese	16.618	0.50	20.00	0	83.1	80	120				
Molybdenum	22.412	0.50	20.00	0	112	80	120				
Selenium	20.458	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682526	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682527	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	21.412	0.10	20.00	0	107	80	120				
Manganese	17.342	0.50	20.00	0	86.7	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682538	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682539	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.700	0.10	20.00	0	104	80	120				
Manganese	17.076	0.50	20.00	0	85.4	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.927	0.10	20.00	0	105	80	120				
Manganese	17.177	0.50	20.00	0	85.9	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682602						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.877	0.10	20.00	0	104	80	120				
Manganese	16.648	0.50	20.00	0	83.2	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSAB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682639							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.303	0.10	20.00	0	102	80	120				
Manganese	16.936	0.50	20.00	0	84.7	80	120				

Sample ID ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSAB6	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSAB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682653							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.588	0.10	20.00	0	103	80	120				
Manganese	16.768	0.50	20.00	0	83.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.420	1.0	20.00	0	102	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.555	1.0	20.00	0	103	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.368	1.0	20.00	0	102	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680766						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.562	1.0	20.00	0	103	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680777						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680778						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.642	1.0	20.00	0	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680802						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680802						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	21.106	1.0	20.00	0	106	80	120				
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Sample ID ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	21.037	1.0	20.00	0	105	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1650367	1650367	100	PASS	30-150	44837.8	44837.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1666057.9	1650367	100.95	PASS	30-150	44009	44837.8	98.15	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1652749.7	1650367	100.14	PASS	30-150	44274	44837.8	98.74	PASS	30-150
Std3-5/50 ppb	ICAL	1	1662669.4	1650367	100.75	PASS	30-150	43968.9	44837.8	98.06	PASS	30-150
Std4-10/100 ppb	ICAL	1	1671017.5	1650367	101.25	PASS	30-150	44277.4	44837.8	98.75	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1701483.3	1650367	103.1	PASS	30-150	43866.4	44837.8	97.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1687094.2	1650367	102.23	PASS	30-150	44270.7	44837.8	98.74	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1714679	1650367	103.9	PASS	30-150	44068	44837.8	98.28	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1713262.9	1650367	103.81	PASS	30-150	43572.2	44837.8	97.18	PASS	30-150
ICV	ICV	1	1739832.2	1650367	105.42	PASS	30-150	42874.9	44837.8	95.62	PASS	30-150
ICB	ICB	1	1709601.4	1650367	103.59	PASS	30-150	42737.9	44837.8	95.32	PASS	30-150
LLICV1	LLICV	1	1711784.6	1650367	103.72	PASS	30-150	42943.9	44837.8	95.78	PASS	30-150
MLCCV	CCV	1	1717182.9	1650367	104.05	PASS	30-150	43379.5	44837.8	96.75	PASS	30-150
ICSA1	ICSA	1	1695000.2	1650367	102.7	PASS	30-150	43087.6	44837.8	96.1	PASS	30-150
ICSAB1	ICSAB	1	1554448.7	1650367	94.19	PASS	30-150	42936.1	44837.8	95.76	PASS	30-150
LLICV1	LLICV	1	1729949	1650367	104.82	PASS	30-150	46407.6	44837.8	103.5	PASS	30-150
CCV1	CCV	1	1561017	1650367	94.59	PASS	30-150	43740.4	44837.8	97.55	PASS	30-150
CCB1	CCB	1	1696791.1	1650367	102.81	PASS	30-150	46677.3	44837.8	104.1	PASS	30-150
CCV2	CCV	1	1540959.4	1650367	93.37	PASS	30-150	44388.8	44837.8	99	PASS	30-150
CCB2	CCB	1	1708454.1	1650367	103.52	PASS	30-150	47584.1	44837.8	106.12	PASS	30-150
ICSA2	ICSA	1	1665489.1	1650367	100.92	PASS	30-150	46413.1	44837.8	103.51	PASS	30-150
ICSAB2	ICSAB	1	1542969.2	1650367	93.49	PASS	30-150	45100.6	44837.8	100.59	PASS	30-150
CCV3	CCV	1	1723610.7	1650367	104.44	PASS	30-150	45407.1	44837.8	101.27	PASS	30-150
CCB3	CCB	1	1703963.8	1650367	103.25	PASS	30-150	45196.5	44837.8	100.8	PASS	30-150
CCV4	CCV	1	1705589.1	1650367	103.35	PASS	30-150	45011.5	44837.8	100.39	PASS	30-150
CCB4	CCB	1	1709333.2	1650367	103.57	PASS	30-150	43957.7	44837.8	98.04	PASS	30-150
CCV5	CCV	1	1721745.7	1650367	104.33	PASS	30-150	44518	44837.8	99.29	PASS	30-150
CCB5	CCB	1	1719611.4	1650367	104.2	PASS	30-150	44078	44837.8	98.31	PASS	30-150
CCV6	CCV	1	1745362	1650367	105.76	PASS	30-150	43851.8	44837.8	97.8	PASS	30-150
CCB6	CCB	1	1749663.7	1650367	106.02	PASS	30-150	42757.9	44837.8	95.36	PASS	30-150
CCV7	CCV	1	1756462.1	1650367	106.43	PASS	30-150	43456.4	44837.8	96.92	PASS	30-150
CCB7	CCB	1	1755566.4	1650367	106.37	PASS	30-150	41923.6	44837.8	93.5	PASS	30-150
CCV8	CCV	1	1757853.2	1650367	106.51	PASS	30-150	42827	44837.8	95.52	PASS	30-150
CCB8	CCB	1	1745919.2	1650367	105.79	PASS	30-150	42028.3	44837.8	93.73	PASS	30-150
ICSA3	ICSA	1	1722616.9	1650367	104.38	PASS	30-150	42206.5	44837.8	94.13	PASS	30-150
ICSAB3	ICSAB	1	1602913.5	1650367	97.12	PASS	30-150	42180.9	44837.8	94.07	PASS	30-150
CCV9	CCV	1	1742757.9	1650367	105.6	PASS	30-150	43767.2	44837.8	97.61	PASS	30-150
CCB9	CCB	1	1733186.8	1650367	105.02	PASS	30-150	42884.9	44837.8	95.64	PASS	30-150
CCV10	CCV	1	1752965.7	1650367	106.22	PASS	30-150	43997.8	44837.8	98.13	PASS	30-150
CCB10	CCB	1	1732469.1	1650367	104.97	PASS	30-150	43244.7	44837.8	96.45	PASS	30-150
CCV11	CCV	1	1750978.4	1650367	106.1	PASS	30-150	43824	44837.8	97.74	PASS	30-150

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	1722143.9	1650367	104.35	PASS	30-150	42757.9	44837.8	95.36	PASS	30-150
ICSA4	ICSA	1	1703894.1	1650367	103.24	PASS	30-150	42818.1	44837.8	95.5	PASS	30-150
ICSAB4	ICSAB	1	1594644.7	1650367	96.62	PASS	30-150	43097.7	44837.8	96.12	PASS	30-150
CCV12	CCV	1	1742041.6	1650367	105.55	PASS	30-150	44470.1	44837.8	99.18	PASS	30-150
CCB12	CCB	1	1709330.3	1650367	103.57	PASS	30-150	44052.3	44837.8	98.25	PASS	30-150
ICSA5	ICSA	1	1718398.1	1650367	104.12	PASS	30-150	43695.9	44837.8	97.45	PASS	30-150
ICSAB5	ICSAB	1	1596631	1650367	96.74	PASS	30-150	42951.7	44837.8	95.79	PASS	30-150
MB-106652	MBLK	1	1738983.6	1650367	105.37	PASS	30-150	45608.7	44837.8	101.72	PASS	30-150
LCS-106652	LCS	1	1781115.1	1650367	107.92	PASS	30-150	46486.7	44837.8	103.68	PASS	30-150
N062843-001D	SAMP	1	1715248.3	1650367	103.93	PASS	30-150	42791.3	44837.8	95.44	PASS	30-150
N062844-001D	SAMP	1	1741025.6	1650367	105.49	PASS	30-150	42732.3	44837.8	95.3	PASS	30-150
N062845-001B	SAMP	1	1762731.3	1650367	106.81	PASS	30-150	43712.6	44837.8	97.49	PASS	30-150
N062845-003B	SAMP	1	1742698.9	1650367	105.59	PASS	30-150	43461.9	44837.8	96.93	PASS	30-150
N062911-001C	SAMP	1	1422845.9	1650367	86.21	PASS	30-150	38710.4	44837.8	86.33	PASS	30-150
N062911-002C	SAMP	1	1399385.4	1650367	84.79	PASS	30-150	40370.8	44837.8	90.04	PASS	30-150
N062911-003C	SAMP	1	1355144.4	1650367	82.11	PASS	30-150	38130.2	44837.8	85.04	PASS	30-150
N062911-003C	SAMP	5	1593523.2	1650367	96.56	PASS	30-150	41930.3	44837.8	93.52	PASS	30-150
CCV13	CCV	1	1767228.5	1650367	107.08	PASS	30-150	45070.7	44837.8	100.52	PASS	30-150
CCB13	CCB	1	1757903	1650367	106.52	PASS	30-150	44259.5	44837.8	98.71	PASS	30-150
N062911-003C-PS	PS	1	1372906	1650367	83.19	PASS	30-150	38724.8	44837.8	86.37	PASS	30-150
N062911-003CMS	MS	1	1374620.8	1650367	83.29	PASS	30-150	38463.1	44837.8	85.78	PASS	30-150
N062911-003CMSD	MSD	1	1378398.8	1650367	83.52	PASS	30-150	38159.1	44837.8	85.1	PASS	30-150
N062911-004C	SAMP	1	1386183.7	1650367	83.99	PASS	30-150	38238.1	44837.8	85.28	PASS	30-150
N062911-006C	SAMP	1	1452020.2	1650367	87.98	PASS	30-150	38787.2	44837.8	86.51	PASS	30-150
N062911-007C	SAMP	1	1423289.4	1650367	86.24	PASS	30-150	38175.7	44837.8	85.14	PASS	30-150
N062911-008C	SAMP	1	1446097.6	1650367	87.62	PASS	30-150	38401.9	44837.8	85.65	PASS	30-150
N062911-009C	SAMP	1	1397543.4	1650367	84.68	PASS	30-150	38100	44837.8	84.97	PASS	30-150
N062911-011C	SAMP	1	1384667.6	1650367	83.9	PASS	30-150	36251.5	44837.8	80.85	PASS	30-150
CCV14	CCV	1	1730615.1	1650367	104.86	PASS	30-150	42955.1	44837.8	95.8	PASS	30-150
CCB14	CCB	1	1724393.5	1650367	104.49	PASS	30-150	41750.9	44837.8	93.12	PASS	30-150
ICSA6	ICSA	1	1718077.7	1650367	104.1	PASS	30-150	40810.8	44837.8	91.02	PASS	30-150
ICSAB6	ICSAB	1	1584502.4	1650367	96.01	PASS	30-150	39261.6	44837.8	87.56	PASS	30-150
CCV15	CCV	1	1719604.5	1650367	104.2	PASS	30-150	41864.6	44837.8	93.37	PASS	30-150
CCB15	CCB	1	1707569	1650367	103.47	PASS	30-150	40225	44837.8	89.71	PASS	30-150
CCV16	CCV	1	1717271	1650367	104.05	PASS	30-150	40207.1	44837.8	89.67	PASS	30-150
CCB16	CCB	1	1709501.3	1650367	103.58	PASS	30-150	39059	44837.8	87.11	PASS	30-150
CCV17	CCV	1	1729688.6	1650367	104.81	PASS	30-150	40001.1	44837.8	89.21	PASS	30-150
CCB17	CCB	1	1701598	1650367	103.1	PASS	30-150	39320.7	44837.8	87.7	PASS	30-150
ICSA7	ICSA	1	1696556	1650367	102.8	PASS	30-150	38250.4	44837.8	85.31	PASS	30-150
ICSAB7	ICSAB	1	1559501.9	1650367	94.49	PASS	30-150	37582.2	44837.8	83.82	PASS	30-150

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Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	25199.5	25199.5	100	PASS	30-150	82865.2	82865.2	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	24863.3	25199.5	98.67	PASS	30-150	82055.6	82865.2	99.02	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	24665.3	25199.5	97.88	PASS	30-150	80640.9	82865.2	97.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	24937.9	25199.5	98.96	PASS	30-150	81260.4	82865.2	98.06	PASS	30-150
Std4-10/100 ppb	ICAL	1	24404.9	25199.5	96.85	PASS	30-150	80645.2	82865.2	97.32	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	24428.2	25199.5	96.94	PASS	30-150	80107	82865.2	96.67	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	24322.5	25199.5	96.52	PASS	30-150	80217.8	82865.2	96.81	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24557.3	25199.5	97.45	PASS	30-150	80398.5	82865.2	97.02	PASS	30-150
Std8-200/2000 ppb	ICAL	1	25133.7	25199.5	99.74	PASS	30-150	80538	82865.2	97.19	PASS	30-150
ICV	ICV	1	24161.2	25199.5	95.88	PASS	30-150	78699.2	82865.2	94.97	PASS	30-150
ICB	ICB	1	24254.7	25199.5	96.25	PASS	30-150	78821.9	82865.2	95.12	PASS	30-150
LLICV1	LLICV	1	24204.6	25199.5	96.05	PASS	30-150	79125.7	82865.2	95.49	PASS	30-150
MLCCV	CCV	1	24138.9	25199.5	95.79	PASS	30-150	79897.2	82865.2	96.42	PASS	30-150
ICSA1	ICSA	1	23572.6	25199.5	93.54	PASS	30-150	78027.3	82865.2	94.16	PASS	30-150
ICSAB1	ICSAB	1	23390.1	25199.5	92.82	PASS	30-150	75017.6	82865.2	90.53	PASS	30-150
LLICV1	LLICV	1	25600	25199.5	101.59	PASS	30-150	84871	82865.2	102.42	PASS	30-150
CCV1	CCV	1	23968.7	25199.5	95.12	PASS	30-150	77346.2	82865.2	93.34	PASS	30-150
CCB1	CCB	1	26281.2	25199.5	104.29	PASS	30-150	87261.1	82865.2	105.3	PASS	30-150
CCV2	CCV	1	24073.3	25199.5	95.53	PASS	30-150	78234.9	82865.2	94.41	PASS	30-150
CCB2	CCB	1	26610.5	25199.5	105.6	PASS	30-150	87613	82865.2	105.73	PASS	30-150
ICSA2	ICSA	1	25604.5	25199.5	101.61	PASS	30-150	84812.9	82865.2	102.35	PASS	30-150
ICSAB2	ICSAB	1	25231.7	25199.5	100.13	PASS	30-150	80751.3	82865.2	97.45	PASS	30-150
CCV3	CCV	1	25330.7	25199.5	100.52	PASS	30-150	84015.4	82865.2	101.39	PASS	30-150
CCB3	CCB	1	25814.8	25199.5	102.44	PASS	30-150	84043.3	82865.2	101.42	PASS	30-150
CCV4	CCV	1	25390.8	25199.5	100.76	PASS	30-150	83409	82865.2	100.66	PASS	30-150
CCB4	CCB	1	25574.4	25199.5	101.49	PASS	30-150	81435.8	82865.2	98.28	PASS	30-150
CCV5	CCV	1	25294	25199.5	100.38	PASS	30-150	82408.5	82865.2	99.45	PASS	30-150
CCB5	CCB	1	24663.1	25199.5	97.87	PASS	30-150	82438.5	82865.2	99.49	PASS	30-150
CCV6	CCV	1	24559.6	25199.5	97.46	PASS	30-150	79715.1	82865.2	96.2	PASS	30-150
CCB6	CCB	1	24521.7	25199.5	97.31	PASS	30-150	79821.1	82865.2	96.33	PASS	30-150
CCV7	CCV	1	24574	25199.5	97.52	PASS	30-150	79481.9	82865.2	95.92	PASS	30-150
CCB7	CCB	1	24480.5	25199.5	97.15	PASS	30-150	77784.9	82865.2	93.87	PASS	30-150
CCV8	CCV	1	24569.6	25199.5	97.5	PASS	30-150	80608.4	82865.2	97.28	PASS	30-150
CCB8	CCB	1	24647.5	25199.5	97.81	PASS	30-150	78943.7	82865.2	95.27	PASS	30-150
ICSA3	ICSA	1	24230.2	25199.5	96.15	PASS	30-150	78890	82865.2	95.2	PASS	30-150
ICSAB3	ICSAB	1	23668.2	25199.5	93.92	PASS	30-150	73777.6	82865.2	89.03	PASS	30-150
CCV9	CCV	1	25249.5	25199.5	100.2	PASS	30-150	81306.2	82865.2	98.12	PASS	30-150
CCB9	CCB	1	25128.2	25199.5	99.72	PASS	30-150	81843.5	82865.2	98.77	PASS	30-150
CCV10	CCV	1	24805.5	25199.5	98.44	PASS	30-150	82390.6	82865.2	99.43	PASS	30-150
CCB10	CCB	1	25280.7	25199.5	100.32	PASS	30-150	81482.6	82865.2	98.33	PASS	30-150
CCV11	CCV	1	25329.6	25199.5	100.52	PASS	30-150	81994.1	82865.2	98.95	PASS	30-150

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	24994.7	25199.5	99.19	PASS	30-150	80411.8	82865.2	97.04	PASS	30-150
ICSA4	ICSA	1	24539.5	25199.5	97.38	PASS	30-150	81300.6	82865.2	98.11	PASS	30-150
ICSAB4	ICSAB	1	24026.6	25199.5	95.35	PASS	30-150	76355.9	82865.2	92.14	PASS	30-150
CCV12	CCV	1	25588.9	25199.5	101.55	PASS	30-150	83782.9	82865.2	101.11	PASS	30-150
CCB12	CCB	1	25900.5	25199.5	102.78	PASS	30-150	82829.5	82865.2	99.96	PASS	30-150
ICSA5	ICSA	1	25196.1	25199.5	99.99	PASS	30-150	82139.3	82865.2	99.12	PASS	30-150
ICSAB5	ICSAB	1	24120	25199.5	95.72	PASS	30-150	76868.4	82865.2	92.76	PASS	30-150
MB-106652	MBLK	1	25696.9	25199.5	101.97	PASS	30-150	85841.5	82865.2	103.59	PASS	30-150
LCS-106652	LCS	1	26274.5	25199.5	104.27	PASS	30-150	86235.8	82865.2	104.07	PASS	30-150
N062843-001D	SAMP	1	24581.8	25199.5	97.55	PASS	30-150	79162.4	82865.2	95.53	PASS	30-150
N062844-001D	SAMP	1	24003.2	25199.5	95.25	PASS	30-150	77252.3	82865.2	93.23	PASS	30-150
N062845-001B	SAMP	1	25094.8	25199.5	99.58	PASS	30-150	81270.5	82865.2	98.08	PASS	30-150
N062845-003B	SAMP	1	24562.9	25199.5	97.47	PASS	30-150	79698.4	82865.2	96.18	PASS	30-150
N062911-001C	SAMP	1	21517.5	25199.5	85.39	PASS	30-150	66927.2	82865.2	80.77	PASS	30-150
N062911-002C	SAMP	1	22090.5	25199.5	87.66	PASS	30-150	68122.1	82865.2	82.21	PASS	30-150
N062911-003C	SAMP	1	21078.1	25199.5	83.64	PASS	30-150	65228.1	82865.2	78.72	PASS	30-150
N062911-003C	SAMP	5	24266.9	25199.5	96.3	PASS	30-150	76593.7	82865.2	92.43	PASS	30-150
CCV13	CCV	1	26122	25199.5	103.66	PASS	30-150	86779.6	82865.2	104.72	PASS	30-150
CCB13	CCB	1	25531	25199.5	101.32	PASS	30-150	84392.8	82865.2	101.84	PASS	30-150
N062911-003C-PS	PS	1	21405.2	25199.5	84.94	PASS	30-150	64428.5	82865.2	77.75	PASS	30-150
N062911-003CMS	MS	1	20930.1	25199.5	83.06	PASS	30-150	63982.1	82865.2	77.21	PASS	30-150
N062911-003CMSD	MSD	1	21212.7	25199.5	84.18	PASS	30-150	63644.2	82865.2	76.8	PASS	30-150
N062911-004C	SAMP	1	21236	25199.5	84.27	PASS	30-150	63344.1	82865.2	76.44	PASS	30-150
N062911-006C	SAMP	1	21526.4	25199.5	85.42	PASS	30-150	64272.2	82865.2	77.56	PASS	30-150
N062911-007C	SAMP	1	21457.4	25199.5	85.15	PASS	30-150	64332.5	82865.2	77.64	PASS	30-150
N062911-008C	SAMP	1	21240.5	25199.5	84.29	PASS	30-150	62062.6	82865.2	74.9	PASS	30-150
N062911-009C	SAMP	1	21224.9	25199.5	84.23	PASS	30-150	63367.7	82865.2	76.47	PASS	30-150
N062911-011C	SAMP	1	20104.6	25199.5	79.78	PASS	30-150	59784.2	82865.2	72.15	PASS	30-150
CCV14	CCV	1	24586.3	25199.5	97.57	PASS	30-150	77329.5	82865.2	93.32	PASS	30-150
CCB14	CCB	1	24047.7	25199.5	95.43	PASS	30-150	75877.2	82865.2	91.57	PASS	30-150
ICSA6	ICSA	1	23542.5	25199.5	93.42	PASS	30-150	75611.4	82865.2	91.25	PASS	30-150
ICSAB6	ICSAB	1	22673.5	25199.5	89.98	PASS	30-150	68566.3	82865.2	82.74	PASS	30-150
CCV15	CCV	1	23896.4	25199.5	94.83	PASS	30-150	75700.8	82865.2	91.35	PASS	30-150
CCB15	CCB	1	23667.1	25199.5	93.92	PASS	30-150	73348	82865.2	88.51	PASS	30-150
CCV16	CCV	1	23553.7	25199.5	93.47	PASS	30-150	72445.1	82865.2	87.43	PASS	30-150
CCB16	CCB	1	22990.6	25199.5	91.23	PASS	30-150	72012	82865.2	86.9	PASS	30-150
CCV17	CCV	1	23058.5	25199.5	91.5	PASS	30-150	71698.5	82865.2	86.52	PASS	30-150
CCB17	CCB	1	23188.7	25199.5	92.02	PASS	30-150	70668.4	82865.2	85.28	PASS	30-150
ICSA7	ICSA	1	22565.6	25199.5	89.55	PASS	30-150	69473.3	82865.2	83.84	PASS	30-150
ICSAB7	ICSAB	1	21707.8	25199.5	86.14	PASS	30-150	65522.7	82865.2	79.07	PASS	30-150

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Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	634704.1	634704.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	630990.6	634704.1	99.41	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	629066.3	634704.1	99.11	PASS	30-150
Std3-5/50 ppb	ICAL	1	633277.1	634704.1	99.78	PASS	30-150
Std4-10/100 ppb	ICAL	1	626545.8	634704.1	98.71	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	633086	634704.1	99.75	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	637402.8	634704.1	100.43	PASS	30-150
Std7-100/1000 ppb	ICAL	1	640309.4	634704.1	100.88	PASS	30-150
Std8-200/2000 ppb	ICAL	1	633331.8	634704.1	99.78	PASS	30-150
ICV	ICV	1	622742.8	634704.1	98.12	PASS	30-150
ICB	ICB	1	622875.6	634704.1	98.14	PASS	30-150
LLICV1	LLICV	1	626372.5	634704.1	98.69	PASS	30-150
MLCCV	CCV	1	630772.5	634704.1	99.38	PASS	30-150
ICSA1	ICSA	1	615100.3	634704.1	96.91	PASS	30-150
ICSAB1	ICSAB	1	564720.3	634704.1	88.97	PASS	30-150
LLICV1	LLICV	1	655180.6	634704.1	103.23	PASS	30-150
CCV1	CCV	1	566542.3	634704.1	89.26	PASS	30-150
CCB1	CCB	1	663087.4	634704.1	104.47	PASS	30-150
CCV2	CCV	1	573469.8	634704.1	90.35	PASS	30-150
CCB2	CCB	1	661298.8	634704.1	104.19	PASS	30-150
ICSA2	ICSA	1	645825.5	634704.1	101.75	PASS	30-150
ICSAB2	ICSAB	1	578129.8	634704.1	91.09	PASS	30-150
CCV3	CCV	1	648138.8	634704.1	102.12	PASS	30-150
CCB3	CCB	1	641207.6	634704.1	101.03	PASS	30-150
CCV4	CCV	1	646266.4	634704.1	101.82	PASS	30-150
CCB4	CCB	1	635857.5	634704.1	100.18	PASS	30-150
CCV5	CCV	1	643822.8	634704.1	101.44	PASS	30-150
CCB5	CCB	1	638071.2	634704.1	100.53	PASS	30-150
CCV6	CCV	1	636105.9	634704.1	100.22	PASS	30-150
CCB6	CCB	1	629993.4	634704.1	99.26	PASS	30-150
CCV7	CCV	1	635274.9	634704.1	100.09	PASS	30-150
CCB7	CCB	1	629521.5	634704.1	99.18	PASS	30-150
CCV8	CCV	1	633836.6	634704.1	99.86	PASS	30-150
CCB8	CCB	1	630054.5	634704.1	99.27	PASS	30-150
ICSA3	ICSA	1	625490.3	634704.1	98.55	PASS	30-150
ICSAB3	ICSAB	1	566380.5	634704.1	89.24	PASS	30-150
CCV9	CCV	1	643674.3	634704.1	101.41	PASS	30-150
CCB9	CCB	1	634540	634704.1	99.97	PASS	30-150
CCV10	CCV	1	642257.2	634704.1	101.19	PASS	30-150
CCB10	CCB	1	642164.4	634704.1	101.18	PASS	30-150
CCV11	CCV	1	641547.3	634704.1	101.08	PASS	30-150

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Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	638367.6	634704.1	100.58	PASS	30-150
ICSA4	ICSA	1	634871.1	634704.1	100.03	PASS	30-150
ICSAB4	ICSAB	1	569797.4	634704.1	89.77	PASS	30-150
CCV12	CCV	1	644399	634704.1	101.53	PASS	30-150
CCB12	CCB	1	643231.1	634704.1	101.34	PASS	30-150
ICSA5	ICSA	1	635101.5	634704.1	100.06	PASS	30-150
ICSAB5	ICSAB	1	569763.9	634704.1	89.77	PASS	30-150
MB-106652	MBLK	1	651661.6	634704.1	102.67	PASS	30-150
LCS-106652	LCS	1	657149.9	634704.1	103.54	PASS	30-150
N062843-001D	SAMP	1	597575.5	634704.1	94.15	PASS	30-150
N062844-001D	SAMP	1	591037.4	634704.1	93.12	PASS	30-150
N062845-001B	SAMP	1	608147.3	634704.1	95.82	PASS	30-150
N062845-003B	SAMP	1	594278.6	634704.1	93.63	PASS	30-150
N062911-001C	SAMP	1	495002.9	634704.1	77.99	PASS	30-150
N062911-002C	SAMP	1	500919.5	634704.1	78.92	PASS	30-150
N062911-003C	SAMP	1	477203.4	634704.1	75.19	PASS	30-150
N062911-003C	SAMP	5	565100.3	634704.1	89.03	PASS	30-150
CCV13	CCV	1	649207.7	634704.1	102.29	PASS	30-150
CCB13	CCB	1	643843.4	634704.1	101.44	PASS	30-150
N062911-003C-PS	PS	1	482888	634704.1	76.08	PASS	30-150
N062911-003CMS	MS	1	482672.4	634704.1	76.05	PASS	30-150
N062911-003CMSD	MSD	1	483038.8	634704.1	76.1	PASS	30-150
N062911-004C	SAMP	1	485175.1	634704.1	76.44	PASS	30-150
N062911-006C	SAMP	1	493671.9	634704.1	77.78	PASS	30-150
N062911-007C	SAMP	1	488871.6	634704.1	77.02	PASS	30-150
N062911-008C	SAMP	1	489752	634704.1	77.16	PASS	30-150
N062911-009C	SAMP	1	482512.8	634704.1	76.02	PASS	30-150
N062911-011C	SAMP	1	466951.2	634704.1	73.57	PASS	30-150
CCV14	CCV	1	621107.5	634704.1	97.86	PASS	30-150
CCB14	CCB	1	614022.3	634704.1	96.74	PASS	30-150
ICSA6	ICSA	1	602151.9	634704.1	94.87	PASS	30-150
ICSAB6	ICSAB	1	532678.8	634704.1	83.93	PASS	30-150
CCV15	CCV	1	612068	634704.1	96.43	PASS	30-150
CCB15	CCB	1	607037.5	634704.1	95.64	PASS	30-150
CCV16	CCV	1	597356.7	634704.1	94.12	PASS	30-150
CCB16	CCB	1	595766.6	634704.1	93.87	PASS	30-150
CCV17	CCV	1	595251.8	634704.1	93.78	PASS	30-150
CCB17	CCB	1	582769.1	634704.1	91.82	PASS	30-150
ICSA7	ICSA	1	586357.7	634704.1	92.38	PASS	30-150
ICSAB7	ICSAB	1	513664	634704.1	80.93	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	36159.1	36159.1	100	PASS	30-150	21180.4	21180.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	36365.1	36159.1	100.57	PASS	30-150	21385.1	21180.4	100.97	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	36968.7	36159.1	102.24	PASS	30-150	21341.7	21180.4	100.76	PASS	30-150
Std3-5/50 ppb	ICAL	1	36715.9	36159.1	101.54	PASS	30-150	21078	21180.4	99.52	PASS	30-150
Std4-10/100 ppb	ICAL	1	37205.8	36159.1	102.89	PASS	30-150	21330.6	21180.4	100.71	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	36536.6	36159.1	101.04	PASS	30-150	21786.7	21180.4	102.86	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	37189.1	36159.1	102.85	PASS	30-150	21694.4	21180.4	102.43	PASS	30-150
Std7-100/1000 ppb	ICAL	1	37655.7	36159.1	104.14	PASS	30-150	21718.9	21180.4	102.54	PASS	30-150
Std8-200/2000 ppb	ICAL	1	37338.3	36159.1	103.26	PASS	30-150	21622.1	21180.4	102.09	PASS	30-150
ICV	ICV	1	36132.3	36159.1	99.93	PASS	30-150	21098.1	21180.4	99.61	PASS	30-150
ICB	ICB	1	36241.4	36159.1	100.23	PASS	30-150	21001.3	21180.4	99.15	PASS	30-150
LLICV1	LLICV	1	36571.1	36159.1	101.14	PASS	30-150	21425.2	21180.4	101.16	PASS	30-150
MLCCV	CCV	1	37100	36159.1	102.6	PASS	30-150	21349.5	21180.4	100.8	PASS	30-150
ICSA1	ICSA	1	36316.1	36159.1	100.43	PASS	30-150	20965.7	21180.4	98.99	PASS	30-150
ICSAB1	ICSAB	1	35459.8	36159.1	98.07	PASS	30-150	19905.5	21180.4	93.98	PASS	30-150
CCV1	CCV	1	37618.9	36159.1	104.04	PASS	30-150	21157.1	21180.4	99.89	PASS	30-150
CCB1	CCB	1	37108.9	36159.1	102.63	PASS	30-150	21149.2	21180.4	99.85	PASS	30-150
ICSA2	ICSA	1	36647.9	36159.1	101.35	PASS	30-150	21456.3	21180.4	101.3	PASS	30-150
ICSAB2	ICSAB	1	35828.4	36159.1	99.09	PASS	30-150	20188.1	21180.4	95.32	PASS	30-150
CCV2	CCV	1	36096.7	36159.1	99.83	PASS	30-150	20907.8	21180.4	98.71	PASS	30-150
CCB2	CCB	1	36572.2	36159.1	101.14	PASS	30-150	20824.4	21180.4	98.32	PASS	30-150
CCV3	CCV	1	36152.4	36159.1	99.98	PASS	30-150	20902.3	21180.4	98.69	PASS	30-150
CCB3	CCB	1	35954.1	36159.1	99.43	PASS	30-150	21033.5	21180.4	99.31	PASS	30-150
CCV4	CCV	1	36624.5	36159.1	101.29	PASS	30-150	20955.7	21180.4	98.94	PASS	30-150
CCB4	CCB	1	37096.7	36159.1	102.59	PASS	30-150	20989	21180.4	99.1	PASS	30-150
CCV5	CCV	1	36917.4	36159.1	102.1	PASS	30-150	21277.2	21180.4	100.46	PASS	30-150
CCB5	CCB	1	36985.3	36159.1	102.28	PASS	30-150	21517.5	21180.4	101.59	PASS	30-150
ICSA3	ICSA	1	36830.5	36159.1	101.86	PASS	30-150	21597.6	21180.4	101.97	PASS	30-150
ICSAB3	ICSAB	1	36267.1	36159.1	100.3	PASS	30-150	20442.8	21180.4	96.52	PASS	30-150
N062911-004C	SAMP	1	34433.3	36159.1	95.23	PASS	30-150	18697.4	21180.4	88.28	PASS	30-150
N062911-006C	SAMP	1	33727.3	36159.1	93.27	PASS	30-150	18750.8	21180.4	88.53	PASS	30-150
N062911-006C	SAMP	10	35285	36159.1	97.58	PASS	30-150	20552.9	21180.4	97.04	PASS	30-150
CCV6	CCV	1	36926.3	36159.1	102.12	PASS	30-150	21186	21180.4	100.03	PASS	30-150
CCB6	CCB	1	36741.5	36159.1	101.61	PASS	30-150	21000.1	21180.4	99.15	PASS	30-150
N062911-004C	SAMP	1	32514.9	36159.1	89.92	PASS	30-150	18157.9	21180.4	85.73	PASS	30-150
N062911-006C	SAMP	1	33277.5	36159.1	92.03	PASS	30-150	18506.1	21180.4	87.37	PASS	30-150
N062911-004C	SAMP	1	33085	36159.1	91.5	PASS	30-150	18615.1	21180.4	87.89	PASS	30-150
N062911-006C	SAMP	1	32760.9	36159.1	90.6	PASS	30-150	18212.4	21180.4	85.99	PASS	30-150
CCV7	CCV	1	37743.7	36159.1	104.38	PASS	30-150	21726.6	21180.4	102.58	PASS	30-150
CCB7	CCB	1	37269.3	36159.1	103.07	PASS	30-150	21735.6	21180.4	102.62	PASS	30-150
ICSA4	ICSA	1	36458.6	36159.1	100.83	PASS	30-150	21315	21180.4	100.64	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSAB4	ICSAB	1	34963.2	36159.1	96.69	PASS	30-150	19800.9	21180.4	93.49	PASS	30-150
CCV8	CCV	1	34959.9	36159.1	96.68	PASS	30-150	19918.8	21180.4	94.04	PASS	30-150
CCB8	CCB	1	34762.7	36159.1	96.14	PASS	30-150	20244.8	21180.4	95.58	PASS	30-150
CCV9	CCV	1	36350.6	36159.1	100.53	PASS	30-150	21009.1	21180.4	99.19	PASS	30-150
CCB9	CCB	1	35990.9	36159.1	99.53	PASS	30-150	20735.4	21180.4	97.9	PASS	30-150
CCV10	CCV	1	36711.4	36159.1	101.53	PASS	30-150	21149.3	21180.4	99.85	PASS	30-150
CCB10	CCB	1	35913	36159.1	99.32	PASS	30-150	20847.7	21180.4	98.43	PASS	30-150
ICSA5	ICSA	1	35482.1	36159.1	98.13	PASS	30-150	20838.8	21180.4	98.39	PASS	30-150
ICSAB5	ICSAB	1	34043.6	36159.1	94.15	PASS	30-150	19442.7	21180.4	91.8	PASS	30-150
N062911-004C	SAMP	1	30849.6	36159.1	85.32	PASS	30-150	17252.5	21180.4	81.46	PASS	30-150
N062911-006C	SAMP	1	30819.5	36159.1	85.23	PASS	30-150	17268	21180.4	81.53	PASS	30-150
N062911-004C	SAMP	1	31682.3	36159.1	87.62	PASS	30-150	17710.7	21180.4	83.62	PASS	30-150
N062911-006C	SAMP	1	31922.7	36159.1	88.28	PASS	30-150	17895.4	21180.4	84.49	PASS	30-150
CCV11	CCV	1	36616.7	36159.1	101.27	PASS	30-150	21269.4	21180.4	100.42	PASS	30-150
CCB11	CCB	1	35888.5	36159.1	99.25	PASS	30-150	21145.9	21180.4	99.84	PASS	30-150
ICSA6	ICSA	1	35089	36159.1	97.04	PASS	30-150	20423.9	21180.4	96.43	PASS	30-150
ICSAB6	ICSAB	1	33749.6	36159.1	93.34	PASS	30-150	19292.5	21180.4	91.09	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062911
 Test Method: EPA 6020
 Analysis Date: 2/7/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 106652

Instrument ID: ICPMS-03
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062911-003C DT 5x	Arsenic	As	µg/L	0	NA	0		10
N062911-003C DT 5x	Barium	Ba	µg/L	33.00924	PASS	32.74481	0.81%	10
N062911-003C DT 5x	Manganese	Mn	µg/L	45.70956	PASS	44.52075	2.67%	10
N062911-003C DT 5x	Molybdenum	Mo	µg/L	42.99855	PASS	45.12357	4.71%	10
N062911-003C DT 5x	Selenium	Se	µg/L	0	NA	0.04758207	100.00%	10
N062911-003C DT 5x	Chromium	Cr	µg/L	3.706696	NA	3.881119	4.49%	10

Reviewed by:

 2/29/2024

Note: NA - Not Applicable

02/21/24 22:44

DT_EPA 6020_N062911_106652

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N062911-003C-PS	SampType: PS	TestCode: 6020_DIS_TP		Units: µg/L	Prep Date:			RunNo: 181346			
Client ID: ZZZZZZ	Batch ID: 106652	TestNo: EPA 6020		EPA 3010A	Analysis Date: 2/8/2024			SeqNo: 5680594			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.484	0.10	10.00	0	94.8	80	120				
Barium	43.021	1.0	10.00	32.74	103	80	120				
Manganese	136.684	0.50	100.0	44.52	92.2	80	120				
Molybdenum	56.765	0.50	10.00	45.12	116	80	120				
Selenium	8.744	0.50	10.00	0.04758	87.0	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062911
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N062911-003C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ZZZZZZ	Batch ID: 106652	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680791						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	13.251	1.0	10.00	3.881	93.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

CALIFORNIA

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.566	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

CALIFORNIA

11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 P:562.219.7435 F:562.219.7436
 ELAP Cert 2921 | EPA ID CA01638

NEVADA

3151 W. Post Rd., Las Vegas, NV 89118
 P:702.307.2659 F:702.307.2691
 ELAP Cert 2676 | NV Cert NV00922 | ORELAP/NELAP Cert 4046



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 501797
Report Level: II
Report Date: 02/21/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N062912

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 501797
 Location: N062912
 Date Received: 02/07/24

Sample ID	Lab ID	Collected	Matrix
N062912-001A/MW-76-039-Q124	501797-001	02/05/24 13:00	Water
N062912-002A/MW-76-156-Q124	501797-002	02/05/24 13:46	Water
N062912-003A/MW-76-181-Q124	501797-003	02/05/24 14:22	Water
N062912-004A/MW-76-218-Q124	501797-004	02/05/24 15:00	Water
N062912-005A/MW-77-046-Q124	501797-005	02/05/24 15:15	Water
N062912-006A/MW-77-102-Q124	501797-006	02/05/24 13:13	Water
N062912-007A/MW-77-158-Q124	501797-007	02/05/24 13:55	Water
N062912-008A/MW-77-187-Q124	501797-008	02/05/24 14:41	Water
N062912-009A/MW-916-Q124	501797-009	02/05/24 13:10	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job 501797
Number:
Location: N062912
Date Received: 02/07/24

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 02/07/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

- Level II was also requested.
- No analytical problems were encountered.



ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

501797

QC Level: Level IV

Subcontractor:

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Riggie Tep

06-Feb-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N062912-001A / MW-76-039-Q124	Groundwater	2/5/2024 1:00:00 PM	8OZA	1	
N062912-002A / MW-76-156-Q124	Groundwater	2/5/2024 1:46:00 PM	8OZA	1	
N062912-003A / MW-76-181-Q124	Groundwater	2/5/2024 2:22:00 PM	8OZA	1	(MS/MSD)
N062912-004A / MW-76-218-Q124	Groundwater	2/5/2024 3:00:00 PM	8OZA	1	
N062912-005A / MW-77-046-Q124	Groundwater	2/5/2024 3:15:00 PM	8OZA	1	
N062912-006A / MW-77-102-Q124	Groundwater	2/5/2024 1:13:00 PM	8OZA	1	
N062912-007A / MW-77-158-Q124	Groundwater	2/5/2024 1:55:00 PM	8OZA	1	
N062912-008A / MW-77-187-Q124	Groundwater	2/5/2024 2:41:00 PM	8OZA	1	
N062912-009A / MW-916-Q124	Groundwater	2/5/2024 1:10:00 PM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#N62912A Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.
 Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS #: 560905571

Relinquished by: <u>VRodriguez</u>	Date/Time: <u>2/6/2024 1630</u>
Relinquished by: _____	Date/Time: _____
Received by: <u>[Signature]</u>	Date/Time: <u>02/07/2024 @ 11:15 am</u>
Received by: _____	Date/Time: _____

SAMPLE ACCEPTANCE CHECKLIST

501797

Section 1
 Client: Asset Laboratory
 Date Received: 8/1/2017
 Project: _____
 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2)
 Sample Temp (°C) _____ (No Cooler) _____
 Sample Temp (°C), One from each cooler: #1: 3.1 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: 6/1

Section 3
 Was the cooler packed with: Ice Paper None Other Styrofoam
 Cooler Temp (°C): #1: 1-8 #2: _____ #3: _____ #4: _____

Section 4

Was a COC received?	YES	NO	N/A
Are sample IDs present?	<input checked="" type="checkbox"/>		
Are sampling dates & times present?	<input checked="" type="checkbox"/>		
Is a relinquished signature present?	<input checked="" type="checkbox"/>		
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>		
Are custody seals present?	<input checked="" type="checkbox"/>		
If custody seals are present, were they intact?	<input checked="" type="checkbox"/>		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	<input checked="" type="checkbox"/>		
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>		
Are the containers labeled with the correct preservatives?	<input checked="" type="checkbox"/>		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	<input checked="" type="checkbox"/>		
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM initials: _____ Date/Time: _____
 Email (email sent to/on): _____ / _____
 Project Manager's response: _____

Completed By: [Signature] Date: 8/1/2017
 Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
 931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
 www.enthalpy.com/social
 Sample Acceptance Checklist – Rev 4, 8/8/2017

0/1.8
5/3.1

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to, limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Print Date: 2/6/2024 12:53 PM

ORC CA927-RD0

3316221



S10219D

ORANGE

PDS



Tracking #: 560905571

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Ship To
ENHANCED ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

Weight: 0 lb(s)
Reference:
Delivery Instructions:
Signature Type: STANDARD

COD: \$0.00

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www.gls-us.com



Analysis Results for 501797

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 501797
 Location: N062912
 Date Received: 02/07/24

Sample ID: N062912-001A/MW-76-039-Q124 **Lab ID:** 501797-001 **Collected:** 02/05/24 13:00
Matrix: Water

501797-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	ND		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-002A/MW-76-156-Q124 **Lab ID:** 501797-002 **Collected:** 02/05/24 13:46
Matrix: Water

501797-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-003A/MW-76-181-Q124 **Lab ID:** 501797-003 **Collected:** 02/05/24 14:22
Matrix: Water

501797-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.4		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-004A/MW-76-218-Q124 **Lab ID:** 501797-004 **Collected:** 02/05/24 15:00
Matrix: Water

501797-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	5.2		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-005A/MW-77-046-Q124 **Lab ID:** 501797-005 **Collected:** 02/05/24 15:15
Matrix: Water

501797-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	5.7		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-006A/MW-77-102-Q124 **Lab ID:** 501797-006 **Collected:** 02/05/24 13:13
Matrix: Water

501797-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	4.8		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Analysis Results for 501797

Sample ID: N062912-007A/MW-77-158-Q124	Lab ID: 501797-007 Matrix: Water	Collected: 02/05/24 13:55
--	---	----------------------------------

501797-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.7		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-008A/MW-77-187-Q124	Lab ID: 501797-008 Matrix: Water	Collected: 02/05/24 14:41
--	---	----------------------------------

501797-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	5.6		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062912-009A/MW-916-Q124	Lab ID: 501797-009 Matrix: Water	Collected: 02/05/24 13:10
---	---	----------------------------------

501797-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1127854	Batch: 332911
Matrix: Water	Method: SM 5310B	

QC1127854 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	02/13/24	02/13/24

Type: Lab Control Sample	Lab ID: QC1127855	Batch: 332911
Matrix: Water	Method: SM 5310B	

QC1127855 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.79	25.00	mg/L	99%		80-120

Type: Matrix Spike	Lab ID: QC1127856	Batch: 332911
Matrix (Source ID): Water (501797-003)	Method: SM 5310B	

QC1127856 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.13	3.421	25.00	mg/L	99%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1127857	Batch: 332911
Matrix (Source ID): Water (501797-003)	Method: SM 5310B	

QC1127857 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.85	3.421	25.00	mg/L	102%		80-120	3	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062938

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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February 21, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062938

RE: PG&E Topock - PCM, 30121866

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 06, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062938

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Initial dilution was necessary for sample N062938-017 due to matrix. Sample is colored.

Analytical Comments for 300:

Dilution was necessary due to sample matrix.



ASSET Laboratories

Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062938
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062938-001A	TW-02D-Q124	Groundwater	2/6/2024 10:21:00 AM	2/6/2024	2/21/2024
N062938-001B	TW-02D-Q124	Groundwater	2/6/2024 10:21:00 AM	2/6/2024	2/21/2024
N062938-001C	TW-02D-Q124	Groundwater	2/6/2024 10:21:00 AM	2/6/2024	2/21/2024
N062938-002A	MW-920-Q124	Groundwater	2/6/2024 9:57:00 AM	2/6/2024	2/21/2024
N062938-002B	MW-920-Q124	Groundwater	2/6/2024 9:57:00 AM	2/6/2024	2/21/2024
N062938-002C	MW-920-Q124	Groundwater	2/6/2024 9:57:00 AM	2/6/2024	2/21/2024
N062938-003A	TW-02S-Q124	Groundwater	2/6/2024 9:47:00 AM	2/6/2024	2/21/2024
N062938-003B	TW-02S-Q124	Groundwater	2/6/2024 9:47:00 AM	2/6/2024	2/21/2024
N062938-003C	TW-02S-Q124	Groundwater	2/6/2024 9:47:00 AM	2/6/2024	2/21/2024
N062938-004A	TW-03D-Q124	Groundwater	2/6/2024 10:54:00 AM	2/6/2024	2/21/2024
N062938-004B	TW-03D-Q124	Groundwater	2/6/2024 10:54:00 AM	2/6/2024	2/21/2024
N062938-004C	TW-03D-Q124	Groundwater	2/6/2024 10:54:00 AM	2/6/2024	2/21/2024
N062938-005A	MW-82-046-Q124	Groundwater	2/6/2024 11:56:00 AM	2/6/2024	2/21/2024
N062938-005B	MW-82-046-Q124	Groundwater	2/6/2024 11:56:00 AM	2/6/2024	2/21/2024
N062938-005C	MW-82-046-Q124	Groundwater	2/6/2024 11:56:00 AM	2/6/2024	2/21/2024
N062938-006A	MW-82-112-Q124	Groundwater	2/6/2024 8:58:00 AM	2/6/2024	2/21/2024
N062938-006B	MW-82-112-Q124	Groundwater	2/6/2024 8:58:00 AM	2/6/2024	2/21/2024
N062938-006C	MW-82-112-Q124	Groundwater	2/6/2024 8:58:00 AM	2/6/2024	2/21/2024
N062938-007A	MW-82-168-Q124	Groundwater	2/6/2024 12:36:00 PM	2/6/2024	2/21/2024
N062938-007B	MW-82-168-Q124	Groundwater	2/6/2024 12:36:00 PM	2/6/2024	2/21/2024
N062938-007C	MW-82-168-Q124	Groundwater	2/6/2024 12:36:00 PM	2/6/2024	2/21/2024
N062938-008A	MW-82-198-Q124	Groundwater	2/6/2024 1:12:00 PM	2/6/2024	2/21/2024
N062938-008B	MW-82-198-Q124	Groundwater	2/6/2024 1:12:00 PM	2/6/2024	2/21/2024
N062938-008C	MW-82-198-Q124	Groundwater	2/6/2024 1:12:00 PM	2/6/2024	2/21/2024
N062938-009A	EB-711-Q124	Groundwater	2/6/2024 1:20:00 PM	2/6/2024	2/21/2024
N062938-010A	MW-39-040-Q124	Groundwater	2/6/2024 1:30:00 PM	2/6/2024	2/21/2024
N062938-010B	MW-39-040-Q124	Groundwater	2/6/2024 1:30:00 PM	2/6/2024	2/21/2024
N062938-010C	MW-39-040-Q124	Groundwater	2/6/2024 1:30:00 PM	2/6/2024	2/21/2024
N062938-011A	MW-39-040-EB-Q124	Groundwater	2/6/2024 1:13:00 PM	2/6/2024	2/21/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062938
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062938-012A	MW-39-050-Q124	Groundwater	2/6/2024 12:09:00 PM	2/6/2024	2/21/2024
N062938-012B	MW-39-050-Q124	Groundwater	2/6/2024 12:09:00 PM	2/6/2024	2/21/2024
N062938-012C	MW-39-050-Q124	Groundwater	2/6/2024 12:09:00 PM	2/6/2024	2/21/2024
N062938-013A	MW-39-060-Q124	Groundwater	2/6/2024 11:43:00 AM	2/6/2024	2/21/2024
N062938-013B	MW-39-060-Q124	Groundwater	2/6/2024 11:43:00 AM	2/6/2024	2/21/2024
N062938-013C	MW-39-060-Q124	Groundwater	2/6/2024 11:43:00 AM	2/6/2024	2/21/2024
N062938-014A	MW-39-070-Q124	Groundwater	2/6/2024 1:05:00 PM	2/6/2024	2/21/2024
N062938-014B	MW-39-070-Q124	Groundwater	2/6/2024 1:05:00 PM	2/6/2024	2/21/2024
N062938-014C	MW-39-070-Q124	Groundwater	2/6/2024 1:05:00 PM	2/6/2024	2/21/2024
N062938-015A	MW-39-080-Q124	Groundwater	2/6/2024 12:38:00 PM	2/6/2024	2/21/2024
N062938-015B	MW-39-080-Q124	Groundwater	2/6/2024 12:38:00 PM	2/6/2024	2/21/2024
N062938-015C	MW-39-080-Q124	Groundwater	2/6/2024 12:38:00 PM	2/6/2024	2/21/2024
N062938-016A	MW-39-100-Q124	Groundwater	2/6/2024 11:18:00 AM	2/6/2024	2/21/2024
N062938-016B	MW-39-100-Q124	Groundwater	2/6/2024 11:18:00 AM	2/6/2024	2/21/2024
N062938-016C	MW-39-100-Q124	Groundwater	2/6/2024 11:18:00 AM	2/6/2024	2/21/2024
N062938-017A	MW-30-030R-Q124	Groundwater	2/6/2024 10:12:00 AM	2/6/2024	2/21/2024
N062938-017B	MW-30-030R-Q124	Groundwater	2/6/2024 10:12:00 AM	2/6/2024	2/21/2024
N062938-017C	MW-30-030R-Q124	Groundwater	2/6/2024 10:12:00 AM	2/6/2024	2/21/2024
N062938-018A	MW-30-050-Q124	Groundwater	2/6/2024 9:35:00 AM	2/6/2024	2/21/2024
N062938-018B	MW-30-050-Q124	Groundwater	2/6/2024 9:35:00 AM	2/6/2024	2/21/2024
N062938-018C	MW-30-050-Q124	Groundwater	2/6/2024 9:35:00 AM	2/6/2024	2/21/2024
N062938-019A	EB-712-Q124	Groundwater	2/6/2024 2:30:00 PM	2/6/2024	2/21/2024



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-001

Client Sample ID: TW-02D-Q124
Collection Date: 2/6/2024 10:21:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320				PrepDate:		Analyst: RAB
Hexavalent Chromium	1.4	0.039	0.20		µg/L	1	2/7/2024 11:28 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106670				PrepDate: 2/7/2024		Analyst: DJ
Chromium	1.6	0.035	1.0		µg/L	1	2/8/2024 03:37 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-002

Client Sample ID: MW-920-Q124
Collection Date: 2/6/2024 9:57:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320				PrepDate:		Analyst: RAB
Hexavalent Chromium	17	0.19	1.0		µg/L	5	2/7/2024 11:47 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106670				PrepDate: 2/7/2024		Analyst: DJ
Chromium	18	0.035	1.0		µg/L	1	2/8/2024 03:42 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-003

Client Sample ID: TW-02S-Q124
Collection Date: 2/6/2024 9:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320				PrepDate:		Analyst: RAB
Hexavalent Chromium	18	0.19	1.0		µg/L	5	2/7/2024 12:44 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106670				PrepDate: 2/7/2024		Analyst: DJ
Chromium	19	0.035	1.0		µg/L	1	2/8/2024 03:46 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-004

Client Sample ID: TW-03D-Q124
Collection Date: 2/6/2024 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320				PrepDate:		Analyst: RAB
Hexavalent Chromium	32	0.19	1.0		µg/L	5	2/7/2024 02:56 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240207H	QC Batch: 106670				PrepDate: 2/7/2024		Analyst: DJ
Chromium	33	0.035	1.0		µg/L	1	2/8/2024 03:51 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-005

Client Sample ID: MW-82-046-Q124
Collection Date: 2/6/2024 11:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	2/7/2024 07:24 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-006

Client Sample ID: MW-82-112-Q124
Collection Date: 2/6/2024 8:58:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: **NV00922-IC7_240207A** QC Batch: **R181320** PrepDate: Analyst: **RAB**
Hexavalent Chromium ND 0.19 1.0 µg/L 5 2/7/2024 07:46 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-007

Client Sample ID: MW-82-168-Q124
Collection Date: 2/6/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 04:52 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-008

Client Sample ID: MW-82-198-Q124
Collection Date: 2/6/2024 1:12:00 PM
Matrix: GROUNDWATER

Analyses **Result** **MDL** **PQL** **Qual** **Units** **DF** **Date Analyzed**

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: **NV00922-IC7_240207A** QC Batch: **R181320** PrepDate: Analyst: **RAB**
Hexavalent Chromium ND 0.039 0.20 µg/L 1 2/7/2024 12:06 PM

- Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range
- H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
- DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-009

Client Sample ID: EB-711-Q124
Collection Date: 2/6/2024 1:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 11:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-010

Client Sample ID: MW-39-040-Q124
Collection Date: 2/6/2024 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 03:55 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-011

Client Sample ID: MW-39-040-EB-Q124
Collection Date: 2/6/2024 1:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 06:08 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-012

Client Sample ID: MW-39-050-Q124
Collection Date: 2/6/2024 12:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 04:14 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-013

Client Sample ID: MW-39-060-Q124
Collection Date: 2/6/2024 11:43:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 05:11 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-014

Client Sample ID: MW-39-070-Q124
Collection Date: 2/6/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	0.34	0.039	0.20	µg/L	1	2/7/2024 10:31 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-015

Client Sample ID: MW-39-080-Q124
Collection Date: 2/6/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	66	0.39	2.0	µg/L	10	2/7/2024 10:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-016

Client Sample ID: MW-39-100-Q124
Collection Date: 2/6/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:			Analyst: RAB
Hexavalent Chromium	150	0.77	4.0	µg/L	20		2/7/2024 09:02 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-017

Client Sample ID: MW-30-030R-Q124
Collection Date: 2/6/2024 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	2/7/2024 07:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-018

Client Sample ID: MW-30-050-Q124
Collection Date: 2/6/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 05:30 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-019

Client Sample ID: EB-712-Q124
Collection Date: 2/6/2024 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240207A	QC Batch: R181320			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/7/2024 06:46 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181320	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: PBW	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677942
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID: LCS-R181320	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: LCSW	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677943
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.827	0.20	5.000	0	96.5 90 110

Sample ID: N062938-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677945
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	2.449	0.20	1.000	1.400	105 90 110

Sample ID: N062938-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677947
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	42.382	1.0	25.00	17.17	101 90 110

Sample ID: N062938-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677949
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.070	0.20	1.000	0	107 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677953						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.808	1.0	25.00	18.41	97.6	90	110				

Sample ID: N062938-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.729	1.0	25.00	32.42	97.3	90	110				

Sample ID: N062938-004ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	31.707	1.0						32.42	2.21	20	

Sample ID: N062938-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.185	0.20	1.000	0.1252	106	90	110				

Sample ID: N062938-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.061	0.20	1.000	0	106	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677966						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.047	0.20	1.000	0	105	90	110				

Sample ID: N062938-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.20	1.000	0	106	90	110				

Sample ID: N062938-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.034	0.20	1.000	0	103	90	110				

Sample ID: N062938-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.004	0.20	1.000	0	100	90	110				

Sample ID: N062938-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677976						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.032	0.20	1.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.593	1.0	5.000	0	91.9	90	110				

Sample ID: N062938-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.801	1.0	5.000	0	96.0	90	110				

Sample ID: N062938-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.974	1.0	5.000	0	99.5	90	110				

Sample ID: N062911-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.020	0.20	1.000	0	102	90	110				

Sample ID: N062938-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	252.772	4.0	100.0	153.1	99.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062938-004AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.452	1.0	25.00	32.42	96.1	90	110	56.73	0.489	20	

Sample ID: N062938-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677993							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.291	0.20	1.000	0.3353	95.6	90	110				

Sample ID: N062938-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677995							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	115.274	2.0	50.00	66.41	97.7	90	110				

Sample ID: N062938-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.031	0.20	1.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-106670	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181347						
Client ID: PBW	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680804						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-106670	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181347						
Client ID: LCSW	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.190	1.0	10.00	0	102	85	115				
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Sample ID: N062938-004CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181347						
Client ID: ZZZZZ	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	40.978	1.0	10.00	32.77	82.1	75	125				
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Sample ID: N062938-004CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181347						
Client ID: ZZZZZ	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680815						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	41.196	1.0	10.00	32.77	84.3	75	125	40.98	0.532	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-001

Client Sample ID: TW-02D-Q124
Collection Date: 2/6/2024 10:21:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	330	17	25		mg/L	50	2/7/2024 12:58 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 02:07 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-002

Client Sample ID: MW-920-Q124
Collection Date: 2/6/2024 9:57:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	2/7/2024 01:13 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 02:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-003

Client Sample ID: TW-02S-Q124
Collection Date: 2/6/2024 9:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	2/7/2024 01:59 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 02:39 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-004

Client Sample ID: TW-03D-Q124
Collection Date: 2/6/2024 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	330	17	25		mg/L	50	2/7/2024 10:34 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	0.55	0.24	0.50		mg/L	10	2/7/2024 10:34 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-005

Client Sample ID: MW-82-046-Q124
Collection Date: 2/6/2024 11:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	2000	69	100		mg/L	200	2/7/2024 02:45 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 02:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-006

Client Sample ID: MW-82-112-Q124
Collection Date: 2/6/2024 8:58:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270	PrepDate:	Analyst: RAB
Nitrate as N	1.3 0.24 0.50	mg/L	10 2/7/2024 03:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-007

Client Sample ID: MW-82-168-Q124
Collection Date: 2/6/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	370	17	25		mg/L	50	2/7/2024 11:20 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 11:21 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-008

Client Sample ID: MW-82-198-Q124
Collection Date: 2/6/2024 1:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	340	17	25		mg/L	50	2/7/2024 02:14 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 03:26 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-010

Client Sample ID: MW-39-040-Q124
Collection Date: 2/6/2024 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	160	6.9	10		mg/L	20	2/7/2024 03:00 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	2/7/2024 12:12 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-012

Client Sample ID: MW-39-050-Q124
Collection Date: 2/6/2024 12:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	200	6.9	10		mg/L	20	2/7/2024 03:15 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	2/7/2024 12:28 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-013

Client Sample ID: MW-39-060-Q124
Collection Date: 2/6/2024 11:43:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	200	6.9	10		mg/L	20	2/7/2024 03:31 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	2/7/2024 01:19 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-014

Client Sample ID: MW-39-070-Q124
Collection Date: 2/6/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	240	17	25		mg/L	50	2/7/2024 02:30 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 03:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-015

Client Sample ID: MW-39-080-Q124
Collection Date: 2/6/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	680	34	50		mg/L	100	2/7/2024 04:01 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	11	0.24	0.50		mg/L	10	2/7/2024 04:30 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-016

Client Sample ID: MW-39-100-Q124
Collection Date: 2/6/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	1000	34	50		mg/L	100	2/7/2024 04:17 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/7/2024 04:46 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-017

Client Sample ID: MW-30-030R-Q124
Collection Date: 2/6/2024 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.12	0.25	mg/L 5
			2/7/2024 01:35 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-018

Client Sample ID: MW-30-050-Q124
Collection Date: 2/6/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240207A	QC Batch: R181263				PrepDate:		Analyst: RAB
Sulfate	320	6.9	10		mg/L	20	2/7/2024 03:46 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240207A	QC Batch: R181270				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	2/7/2024 01:51 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R181263_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: PBW	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: LCS-R181263_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: LCSW	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.088	0.50	4.000	0	102	90	110				

Sample ID: N062938-004BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ZZZZZ	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	520.395	25	200.0	329.0	95.7	80	120				

Sample ID: N062938-004BMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ZZZZZ	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	522.115	25	200.0	329.0	96.6	80	120	520.4	0.330	20	

Sample ID: N062938-007BDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ZZZZZ	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	369.030	25						373.4	1.17	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: N062938-007BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ZZZZZZ	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674061						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	568.140	25	200.0	373.4	97.4	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:							
Client ID:	Batch ID:	TestNo:				Analysis Date:	SeqNo:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate as N	ND	0.050										
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:							
Client ID:	Batch ID:	TestNo:				Analysis Date:	SeqNo:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate as N	1.280	0.050	1.250	0	102	90	110					
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:							
Client ID:	Batch ID:	TestNo:				Analysis Date:	SeqNo:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate as N	12.753	0.50	12.50	0.5520	97.6	80	120					
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:							
Client ID:	Batch ID:	TestNo:				Analysis Date:	SeqNo:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate as N	12.621	0.50	12.50	0.5520	96.6	80	120	12.75	1.04	20		
Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:							
Client ID:	Batch ID:	TestNo:				Analysis Date:	SeqNo:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate as N	ND	0.50						0	0	20		

Qualifiers:

B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: N062938-007BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: ZZZZZZ	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.321	0.50	12.50	0	98.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-001

Client Sample ID: TW-02D-Q124
Collection Date: 2/6/2024 10:21:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	40	13	20	µg/L	1	2/7/2024 03:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-920-Q124
Lab Order: N062938	
Project: PG&E Topock - PCM, 30121866	Collection Date: 2/6/2024 9:57:00 AM
Lab ID: N062938-002	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671	PrepDate: 2/7/2024	Analyst: DJ
Iron	ND 13	20	µg/L 1
			2/7/2024 03:27 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-003

Client Sample ID: TW-02S-Q124
Collection Date: 2/6/2024 9:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/7/2024 03:32 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-004

Client Sample ID: TW-03D-Q124
Collection Date: 2/6/2024 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/7/2024 03:38 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-005

Client Sample ID: MW-82-046-Q124
Collection Date: 2/6/2024 11:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	1900	13	20	µg/L	1	2/7/2024 04:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-006

Client Sample ID: MW-82-112-Q124
Collection Date: 2/6/2024 8:58:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	56	13	20	µg/L	1	2/7/2024 04:15 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-007

Client Sample ID: MW-82-168-Q124
Collection Date: 2/6/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	48	13	20	µg/L	1	2/7/2024 04:21 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-008

Client Sample ID: MW-82-198-Q124
Collection Date: 2/6/2024 1:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/7/2024 04:26 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-010

Client Sample ID: MW-39-040-Q124
Collection Date: 2/6/2024 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	430	13	20	µg/L	1	2/7/2024 04:30 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-012

Client Sample ID: MW-39-050-Q124
Collection Date: 2/6/2024 12:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/7/2024 04:34 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS
Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-013

Client Sample ID: MW-39-060-Q124
Collection Date: 2/6/2024 11:43:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671		PrepDate:	2/7/2024	Analyst: DJ
Iron	ND	13		µg/L	2/7/2024 04:38 PM

Qualifiers:	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded S Spike/Surrogate outside of limits due to matrix interference DO Surrogate Diluted Out	E Value above quantitation range ND Not Detected at the Reporting Limit Results are wet unless otherwise specified
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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-014

Client Sample ID: MW-39-070-Q124
Collection Date: 2/6/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	2/7/2024 04:42 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-39-080-Q124
Lab Order:	N062938		
Project:	PG&E Topock - PCM, 30121866	Collection Date:	2/6/2024 12:38:00 PM
Lab ID:	N062938-015	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/7/2024 04:48 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-016

Client Sample ID: MW-39-100-Q124
Collection Date: 2/6/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ	
Iron	ND	13	20	µg/L	1	2/7/2024 04:53 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-017

Client Sample ID: MW-30-030R-Q124
Collection Date: 2/6/2024 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ	
Iron	390	13	20	µg/L	1	2/7/2024 05:05 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-018

Client Sample ID: MW-30-050-Q124
Collection Date: 2/6/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240207B	QC Batch: 106671			PrepDate: 2/7/2024		Analyst: DJ
Iron	320	13	20	µg/L	1	2/7/2024 05:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: MB-106671	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181269
Client ID: PBW	Batch ID: 106671	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673851
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: LCS-106671	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181269
Client ID: LCSW	Batch ID: 106671	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673852
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	97.557	20	100.0	0	97.6 85 115

Sample ID: N062938-004CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181269
Client ID: ZZZZZ	Batch ID: 106671	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673859
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	105.671	20	100.0	0	106 75 125

Sample ID: N062938-004CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181269
Client ID: ZZZZZ	Batch ID: 106671	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/7/2024	SeqNo: 5673860
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	104.845	20	100.0	0	105 75 125 105.7 0.784 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-001

Client Sample ID: TW-02D-Q124
Collection Date: 2/6/2024 10:21:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	2.3	0.050	0.10	µg/L	1	2/8/2024 03:37 AM	
Barium	15	0.083	1.0	µg/L	1	2/8/2024 03:37 AM	
Manganese	74	0.026	0.50	µg/L	1	2/8/2024 03:37 AM	
Molybdenum	43	0.12	0.50	µg/L	1	2/8/2024 03:37 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 03:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-002

Client Sample ID: MW-920-Q124
Collection Date: 2/6/2024 9:57:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 03:42 AM	
Barium	160	0.083	1.0	µg/L	1	2/8/2024 03:42 AM	
Manganese	ND	0.026	0.50	µg/L	1	2/8/2024 03:42 AM	
Molybdenum	3.1	0.12	0.50	µg/L	1	2/8/2024 03:42 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 03:42 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-003

Client Sample ID: TW-02S-Q124
Collection Date: 2/6/2024 9:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 03:46 AM	
Barium	160	0.083	1.0	µg/L	1	2/8/2024 03:46 AM	
Manganese	ND	0.026	0.50	µg/L	1	2/8/2024 03:46 AM	
Molybdenum	3.0	0.12	0.50	µg/L	1	2/8/2024 03:46 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 03:46 AM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-004

Client Sample ID: TW-03D-Q124
Collection Date: 2/6/2024 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208E	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	0.98	0.050	0.10	µg/L	1	2/8/2024 09:33 PM	
Barium	50	0.083	1.0	µg/L	1	2/8/2024 03:51 AM	
Manganese	26	0.026	0.50	µg/L	1	2/8/2024 03:51 AM	
Molybdenum	35	0.12	0.50	µg/L	1	2/8/2024 03:51 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/8/2024 03:51 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-005

Client Sample ID: MW-82-046-Q124
Collection Date: 2/6/2024 11:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	1.2	0.050	0.10	µg/L	1	2/8/2024	04:28 AM
Barium	66	0.083	1.0	µg/L	1	2/8/2024	04:28 AM
Manganese	130	0.026	0.50	µg/L	1	2/8/2024	04:28 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-006

Client Sample ID: MW-82-112-Q124
Collection Date: 2/6/2024 8:58:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	04:33 AM
Barium	50	0.083	1.0	µg/L	1	2/8/2024	04:33 AM
Manganese	130	0.026	0.50	µg/L	1	2/8/2024	04:33 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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 ELAP Cert 2676 | NV Cert NV00922
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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-007

Client Sample ID: MW-82-168-Q124
Collection Date: 2/6/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	04:38 AM
Barium	32	0.083	1.0	µg/L	1	2/8/2024	04:38 AM
Manganese	50	0.026	0.50	µg/L	1	2/8/2024	04:38 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-008

Client Sample ID: MW-82-198-Q124
Collection Date: 2/6/2024 1:12:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208E	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 10:52 PM	
Barium	40	0.083	1.0	µg/L	1	2/8/2024 04:42 AM	
Manganese	26	0.026	0.50	µg/L	1	2/8/2024 04:42 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-010

Client Sample ID: MW-39-040-Q124
Collection Date: 2/6/2024 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	1.8	0.050	0.10	µg/L	1	2/8/2024	04:47 AM
Barium	28	0.083	1.0	µg/L	1	2/8/2024	04:47 AM
Manganese	140	0.026	0.50	µg/L	1	2/8/2024	04:47 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-012

Client Sample ID: MW-39-050-Q124
Collection Date: 2/6/2024 12:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	16	0.050	0.10	µg/L	1	2/8/2024	04:52 AM
Barium	150	0.083	1.0	µg/L	1	2/8/2024	04:52 AM
Manganese	190	0.26	5.0	µg/L	10	2/8/2024	09:47 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-013

Client Sample ID: MW-39-060-Q124
Collection Date: 2/6/2024 11:43:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	1.8	0.050	0.10	µg/L	1	2/8/2024	04:56 AM
Barium	51	0.083	1.0	µg/L	1	2/8/2024	04:56 AM
Manganese	230	0.26	5.0	µg/L	10	2/8/2024	09:52 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-014

Client Sample ID: MW-39-070-Q124
Collection Date: 2/6/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	1.3	0.050	0.10	µg/L	1	2/8/2024 05:01 AM	
Barium	33	0.083	1.0	µg/L	1	2/8/2024 05:01 AM	
Manganese	9.7	0.026	0.50	µg/L	1	2/8/2024 05:01 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-015

Client Sample ID: MW-39-080-Q124
Collection Date: 2/6/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	05:20 AM
Barium	34	0.083	1.0	µg/L	1	2/8/2024	05:20 AM
Manganese	5.3	0.026	0.50	µg/L	1	2/8/2024	05:20 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-016

Client Sample ID: MW-39-100-Q124
Collection Date: 2/6/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024	05:24 AM
Barium	36	0.083	1.0	µg/L	1	2/8/2024	05:24 AM
Manganese	17	0.026	0.50	µg/L	1	2/8/2024	05:24 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-017

Client Sample ID: MW-30-030R-Q124
Collection Date: 2/6/2024 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/8/2024 05:29 AM	
Barium	250	0.83	10	µg/L	10	2/8/2024 05:34 AM	
Manganese	170	0.026	0.50	µg/L	1	2/8/2024 05:29 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 21-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062938
Project: PG&E Topock - PCM, 30121866
Lab ID: N062938-018

Client Sample ID: MW-30-050-Q124
Collection Date: 2/6/2024 9:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240207G	QC Batch:	106670	PrepDate:	2/7/2024	Analyst:	DJ
Arsenic	4.4	0.050	0.10	µg/L	1	2/8/2024 05:38 AM	
Barium	46	0.083	1.0	µg/L	1	2/8/2024 05:38 AM	
Manganese	660	0.26	5.0	µg/L	10	2/8/2024 10:01 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-106670	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181346
Client ID: PBW	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680607
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID: LCS-106670	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181346
Client ID: LCSW	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680608
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	10.032	0.10	10.00	0	100 85 115
Barium	10.660	1.0	10.00	0	107 85 115
Manganese	99.814	0.50	100.0	0	99.8 85 115
Molybdenum	10.081	0.50	10.00	0	101 85 115
Selenium	10.130	0.50	10.00	0	101 85 115

Sample ID: N062938-004CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/7/2024	RunNo: 181346
Client ID: ZZZZZ	Batch ID: 106670	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5680615
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Barium	58.979	1.0	10.00	50.14	88.4 75 125
Manganese	118.424	0.50	100.0	26.19	92.2 75 125
Molybdenum	44.614	0.50	10.00	34.92	97.0 75 125
Selenium	10.088	0.50	10.00	0.2706	98.2 75 125

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062938-004CMSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 2/7/2024		RunNo: 181346	
Client ID: ZZZZZZ		Batch ID: 106670		TestNo: EPA 6020 EPA 3010A				Analysis Date: 2/8/2024		SeqNo: 5680618	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	59.186	1.0	10.00	50.14	90.4	75	125	58.98	0.351	20	
Manganese	118.323	0.50	100.0	26.19	92.1	75	125	118.4	0.0851	20	
Molybdenum	44.981	0.50	10.00	34.92	101	75	125	44.61	0.819	20	
Selenium	9.705	0.50	10.00	0.2706	94.3	75	125	10.09	3.87	20	

Sample ID: N062938-004CMS		SampType: MS		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 2/7/2024		RunNo: 181346	
Client ID: ZZZZZZ		Batch ID: 106670		TestNo: EPA 6020 EPA 3010A				Analysis Date: 2/8/2024		SeqNo: 5700984	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.200	0.10	10.00	0.9761	102	75	125				

Sample ID: N062938-004CMSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 2/7/2024		RunNo: 181346	
Client ID: ZZZZZZ		Batch ID: 106670		TestNo: EPA 6020 EPA 3010A				Analysis Date: 2/8/2024		SeqNo: 5700985	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.063	0.10	10.00	0.9761	101	75	125	11.20	1.23	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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SAMPLE RECEIVING ITEMS



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CHAIN OF CUSTODY RECORD

Page 1 of 1

ARCUS02 C: 2/21/2024 12:00 AM
 FOLDER R: 2/6/2024
 N062938-020A 1 of 1



Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		1 Chilled	
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com daniel.moore@cutieen.com		Address:		Geotracker		RWQCB		2 Headspace	
Phone: 916-786-3302		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		Labspec		CalTrans		3 Container Intact	
Fax:		Address:		P.O.#		Others		LEVEL III		4 Seal Present	
Submitted By: Reggie Top		Phone: 916-786-3302		Fax:		Specify: RWQCB		LEVEL IV		5 IR number	
Title: Field Tech		Phone:		Fax:		Global ID:		Regulatory		6 Method of Cooling:	
Signature: [Signature]		Date: 02/06/24		Sampled By: Reggie Top				Specify State:		Sample Temp: ICE 1.6°C / 1.8°C	

I hereby authorize ASSET Labs to perform the tests indicated below.		Project Name: PG&E Topock - PCM		Project Number: 30121866		Matrix		Ground		Potable		NPDES		Surface	
Signature: [Signature]		Date: 02/06/24				X Sediment		Soil		Other Solid					

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum	Total Organic Carbon (SM5310C); H2SO4	Ammonia as Nitrogen (SM4500NH3D); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Nitrate (EPA 300.0)	Remarks
1	N062938-001	✓ TW-02D-Q124	2/6/2024	10:21		X	X	X	X	X					
2	-002	✓ MW-920-Q124	2/6/2024	9:57		X	X	X	X	X					
3	-003	✓ TW-02S-Q124	2/6/2024	9:47		X	X	X	X	X					
4	-004	✓ TW-03D-Q124	2/6/2024	10:54		X	X	X	X	X					
5	-005	✓ MW-82-046-Q124	2/6/2024	11:56		X	X	X							
6	-006	✓ MW-82-112-Q124	2/6/2024	8:58		X		X							
7	-007	✓ MW-82-168-Q124	2/6/2024	12:36		X	X	X					X		
8	-008	✓ MW-82-198-Q124	2/6/2024	13:21	13/2	X	X	X							
9	-009	✓ EB-711-Q124	2/6/2024	13:20		X									
10	-010	✓ MW-39-040-Q124	2/6/2024	13:30		X	X	X							
11	-011	✓ MW-39-040-EB-Q124	2/6/2024	13:13		X									
12	-012	✓ MW-39-050-Q124	2/6/2024	12:09		X	X	X							
13	-013	✓ MW-39-060-Q124	2/6/2024	11:43		X	X	X							
14															

Relinquished by (Signature and Printed Name): [Signature] Reggie Top 02/06/24 1645		Date/Time: 02/06/24 1645		Relinquished by (Signature and Printed Name): [Signature] Michael Alcantara 2/6/24 1645		Date/Time: 2/6/24 1645	
Relinquished by (Signature and Printed Name): [Signature] Michael Alcantara 2/6/24 2032		Date/Time: 2/6/24 2032		Relinquished by (Signature and Printed Name): [Signature] Michael Alcantara 2/6/24 2032		Date/Time: 2/6/24 2032	
Relinquished by (Signature and Printed Name): [Signature] Michael Alcantara 2/6/24		Date/Time: 2/6/24		Relinquished by (Signature and Printed Name): [Signature] Michael Alcantara 2/6/24		Date/Time: 2/6/24	

Turn Around Time (TAT)

Special Instruction:

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Preservatives:	H=HCL	N=HNO3	S=H2SO4	C=4°C	Container Type:	T=Tube	V=VOA	P=Pin
	Z=Zn(AC)2	O=NaOH	T=Na2S2O3			J=Jar	B=Tedlar	G=Glass
	Others/Specify:	B	(NH4)2SO4/NH4OH			M=Metal	M=Metal	C=Can

Terms
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
 Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
 3. Custom EDD formats will be an additional 3% of the total project price.
 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.

5. Trip Blanks and Equipment Blanks are billable sample.
 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are not 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

White-Laboratory Copy
 Yellow=Customer's Copy



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691
 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436
 www.assetlaboratories.com

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		1. Chilled	
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com daniel.moore@citizen.com		Address:		GeoTracker		RWQCB		2. Headspace	
Phone: 916-786-3302		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		Labspec		CalTrans		3. Container Intact	
Submitted By: <i>Russell Tedy</i>		Phone: 916-786-3302		P.O.#		Others		LEVEL III		4. Seal Present	
Title: <i>Field Tedy</i>		Fax:		Phone: 949-727-1400, ext 200		Specify: RWQCB		LEVEL IV		5. IR number	
Signature: <i>M. Russell Tedy</i>		Date: <i>02/16/24</i>		Fax:		Global ID:		Regulatory		6. Method of Cooling: <i>ICE</i>	

Signature: <i>M. Russell Tedy</i>		Date: <i>02/16/24</i>		Sampled By: <i>Russell Tedy</i>		Date: <i>02/16/24</i>		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for collection.		Sample Temp: <i>1.6°C / 1.8°C</i>	
Project Name: PG&E Topock - PCM		Project Number: 30121866.3Q23GW		Signature: <i>M. Russell Tedy</i>		Date: <i>02/16/24</i>		I hereby authorize ASSET Labs to perform the tests indicated below.		Courier: <i>ASSET</i>	
Project Number: 30121866.3Q23GW		Signature: <i>M. Russell Tedy</i>		Date: <i>02/16/24</i>		I hereby authorize ASSET Labs to perform the tests indicated below.		Tracking No.:		Remarks:	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum	Total Organic Carbon (SM6310C); H2SO4	Ammonia as Nitrogen (SM4500NH3D); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Nitrate (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N062938-014	✓ MW-39-070-Q124	2/6/2024	13:05		X	X	X							E	3	P	BNS	
2	-015	✓ MW-39-080-Q124	2/6/2024	12:38		X	X	X							E	3	P	BNS	
3	-016	✓ MW-39-100-Q124	2/6/2024	11:18		X	X	X							E	3	P	BNS	
4	-017	✓ MW-30-030R-Q124	2/6/2024	10:12		X	X	X							E	3	P	BNS	
5	-018	✓ MW-30-050-Q124	2/6/2024	9:35		X	X	X							E	3	P	BNS	
6	-019	✓ EB-712-Q124	2/6/2024	14:30		X	X	X							E	3	P	BNS	
7															E	1	P	BNS	
8																			
9																			
10																			
11																			
12																			
13																			
14																			

Relinquished by (Signature and Printed Name): <i>M. Russell Tedy</i>	Date/Time: <i>02/16/24 1645</i>	Relinquished by (Signature and Printed Name): <i>Michael Alcantara</i>	Date/Time: <i>2/16/24 1645</i>	Turn Around Time (TAT):	Special Instruction:
Relinquished by (Signature and Printed Name): <i>Michael Alcantara</i>	Date/Time: <i>2/16/24 2032</i>	Relinquished by (Signature and Printed Name): <i>Michael Alcantara</i>	Date/Time: <i>2/16/24 2032</i>	<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays	
Relinquished by (Signature and Printed Name): <i>Michael Alcantara</i>	Date/Time: <i>2/16/24</i>	Relinquished by (Signature and Printed Name): <i>Michael Alcantara</i>	Date/Time: <i>2/16/24</i>	TAT Starts at 8 AM the following day if samples received after 3:00PM.	

Terms:
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
 Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
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 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 2/6/2024 Workorder: N062938
 Rep sample Temp (Deg C): 1.6/1.8 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By YR YRodriguez
 2/7/2024

Reviewed By: for: *J. Pharis*
 MBC 02/08/2024

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-001A	TW-02D-Q124	2/6/2024 10:21:00 AM	2/21/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-001B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-001C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-002A	MW-920-Q124	2/6/2024 9:57:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-002B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-002C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-003A	TW-02S-Q124	2/6/2024 9:47:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-003B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-003C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-003C	TW-02S-Q124	2/6/2024 9:47:00 AM	2/21/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-004A	TW-03D-Q124	2/6/2024 10:54:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062938-004B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062938-004C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062938-005A	MW-82-046-Q124	2/6/2024 11:56:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-005B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-005C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-006A	MW-82-112-Q124	2/6/2024 8:58:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-006B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-006C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-006C	MW-82-112-Q124	2/6/2024 8:58:00 AM	2/21/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-007A	MW-82-168-Q124	2/6/2024 12:36:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-007B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-007C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-008A	MW-82-198-Q124	2/6/2024 1:12:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-008B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-008C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-009A	EB-711-Q124	2/6/2024 1:20:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-010A	MW-39-040-Q124	2/6/2024 1:30:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-010B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-010C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-010C	MW-39-040-Q124	2/6/2024 1:30:00 PM	2/21/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-011A	MW-39-040-EB-Q124	2/6/2024 1:13:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-012A	MW-39-050-Q124	2/6/2024 12:09:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-012B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-012C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-013A	MW-39-060-Q124	2/6/2024 11:43:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-013B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-013C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-014A	MW-39-070-Q124	2/6/2024 1:05:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-014B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-014C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-014C	MW-39-070-Q124	2/6/2024 1:05:00 PM	2/21/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-015A	MW-39-080-Q124	2/6/2024 12:38:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-015B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-015C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-016A	MW-39-100-Q124	2/6/2024 11:18:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-016B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-016C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-017A	MW-30-030R-Q124	2/6/2024 10:12:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-017B			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-017C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-018A	MW-30-050-Q124	2/6/2024 9:35:00 AM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

07-Feb-24

WorkOrder: N062938

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/6/2024 8:32 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062938-018B	MW-30-050-Q124	2/6/2024 9:35:00 AM	2/21/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-018C			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/21/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-019A	EB-712-Q124	2/6/2024 2:30:00 PM	2/21/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062938-020A	FOLDER	2/21/2024	2/21/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			2/21/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			2/21/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062938

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



ASSET LABORATORIES
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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R181320
ASSET #: N062938

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 2/7/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Initial dilution was necessary for sample N062938-017 due to matrix. Sample is colored.

Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer RB 02202024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062938-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.3996 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.3996$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.4$$

Reviewed by:

d/Recha 2/22/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV.ICV,1	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb.CCV2,1	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB.ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/07/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/07/24 10:22 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/07/24 10:31 AM	Reported
13	MB-R181320	MBLK	1	Hexavalent Chromium	02/07/24 10:40 AM	Reported
14	LCS-R181320	LCS	1	Hexavalent Chromium	02/07/24 10:50 AM	Reported
15	N062938-004A	SAMP	1	Hexavalent Chromium	02/07/24 11:08 AM	Not Reported
16	N062938-004AMS	MS	1	Hexavalent Chromium	02/07/24 11:19 AM	Not Reported
17	N062938-001A	SAMP	1	Hexavalent Chromium	02/07/24 11:28 AM	Reported
18	N062938-001AMS	MS	1	Hexavalent Chromium	02/07/24 11:37 AM	Reported
19	N062938-002A	SAMP	5	Hexavalent Chromium	02/07/24 11:47 AM	Reported
20	N062938-002AMS	MS	5	Hexavalent Chromium	02/07/24 11:56 AM	Reported
21	N062938-008A	SAMP	1	Hexavalent Chromium	02/07/24 12:06 PM	Reported
22	N062938-008AMS	MS	1	Hexavalent Chromium	02/07/24 12:15 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/07/24 12:25 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/07/24 12:34 PM	Reported
25	N062938-003A	SAMP	5	Hexavalent Chromium	02/07/24 12:44 PM	Reported
26	N062938-003AMS	MS	5	Hexavalent Chromium	02/07/24 12:53 PM	Reported
27	N062938-005A	SAMP	1	Hexavalent Chromium	02/07/24 1:03 PM	Not Reported
28	N062938-005AMS	MS	1	Hexavalent Chromium	02/07/24 1:12 PM	Not Reported
29	N062938-006A	SAMP	1	Hexavalent Chromium	02/07/24 1:22 PM	Not Reported
30	N062938-006AMS	MS	1	Hexavalent Chromium	02/07/24 1:31 PM	Not Reported
31	N062938-016A	SAMP	5	Hexavalent Chromium	02/07/24 1:46 PM	Not Reported
32	N062938-016AMS	MS	5	Hexavalent Chromium	02/07/24 1:57 PM	Not Reported
33	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 2:07 PM	Not Reported
34	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 2:16 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/07/24 2:26 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/07/24 2:35 PM	Reported
37	N062938-004A	SAMP	5	Hexavalent Chromium	02/07/24 2:56 PM	Reported
38	N062938-004AMS	MS	5	Hexavalent Chromium	02/07/24 3:08 PM	Reported
39	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 3:18 PM	Not Reported
40	N062938-004ADUP	DUP	5	Hexavalent Chromium	02/07/24 3:27 PM	Reported
41	N062938-015A	SAMP	1	Hexavalent Chromium	02/07/24 3:36 PM	Not Reported
42	N062938-015AMS	MS	1	Hexavalent Chromium	02/07/24 3:46 PM	Not Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062938-010A	SAMP	1	Hexavalent Chromium	02/07/24 3:55 PM	Reported
44	N062938-010AMS	MS	1	Hexavalent Chromium	02/07/24 4:05 PM	Reported
45	N062938-012A	SAMP	1	Hexavalent Chromium	02/07/24 4:14 PM	Reported
46	N062938-012AMS	MS	1	Hexavalent Chromium	02/07/24 4:24 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/07/24 4:33 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/07/24 4:43 PM	Reported
49	N062938-007A	SAMP	1	Hexavalent Chromium	02/07/24 4:52 PM	Reported
50	N062938-007AMS	MS	1	Hexavalent Chromium	02/07/24 5:02 PM	Reported
51	N062938-013A	SAMP	1	Hexavalent Chromium	02/07/24 5:11 PM	Reported
52	N062938-013AMS	MS	1	Hexavalent Chromium	02/07/24 5:21 PM	Reported
53	N062938-018A	SAMP	1	Hexavalent Chromium	02/07/24 5:30 PM	Reported
54	N062938-018AMS	MS	1	Hexavalent Chromium	02/07/24 5:40 PM	Reported
55	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 5:49 PM	Not Reported
56	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 5:59 PM	Not Reported
57	N062938-011A	SAMP	1	Hexavalent Chromium	02/07/24 6:08 PM	Reported
58	N062938-011AMS	MS	1	Hexavalent Chromium	02/07/24 6:18 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/07/24 6:27 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/07/24 6:36 PM	Reported
61	N062938-019A	SAMP	1	Hexavalent Chromium	02/07/24 6:46 PM	Reported
62	N062938-019AMS	MS	1	Hexavalent Chromium	02/07/24 6:55 PM	Reported
63	N062938-017A	SAMP	5	Hexavalent Chromium	02/07/24 7:05 PM	Reported
64	N062938-017AMS	MS	5	Hexavalent Chromium	02/07/24 7:14 PM	Reported
65	N062938-005A	SAMP	5	Hexavalent Chromium	02/07/24 7:24 PM	Reported
66	N062938-005AMS	MS	5	Hexavalent Chromium	02/07/24 7:33 PM	Reported
67	N062938-006A	SAMP	5	Hexavalent Chromium	02/07/24 7:46 PM	Reported
68	N062938-006AMS	MS	5	Hexavalent Chromium	02/07/24 7:56 PM	Reported
69	N062938-007A	SAMP	5	Hexavalent Chromium	02/07/24 8:05 PM	Not Reported
70	N062938-007AMS	MS	5	Hexavalent Chromium	02/07/24 8:14 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/07/24 8:24 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/07/24 8:33 PM	Reported
73	N062911-002A	SAMP	1	Hexavalent Chromium	02/07/24 8:43 PM	Reported
74	N062911-002AMS	MS	1	Hexavalent Chromium	02/07/24 8:52 PM	Reported
75	N062938-016A	SAMP	20	Hexavalent Chromium	02/07/24 9:02 PM	Reported
76	N062938-016AMS	MS	20	Hexavalent Chromium	02/07/24 9:11 PM	Reported
77	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 9:53 PM	Reported
78	CCV-7	CCV	1	Hexavalent Chromium	02/07/24 10:11 PM	Reported
79	CCB-7	CCB	1	Hexavalent Chromium	02/07/24 10:22 PM	Reported
80	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 10:31 PM	Reported
81	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 10:41 PM	Reported
82	N062938-015A	SAMP	10	Hexavalent Chromium	02/07/24 10:50 PM	Reported
83	N062938-015AMS	MS	10	Hexavalent Chromium	02/07/24 10:59 PM	Reported
84	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 11:09 PM	Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 11:18 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	02/07/24 11:28 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	02/07/24 11:37 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 11:47 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240207A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	08/Feb/24 00:17:33
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/07/2024 09:22	Finished	BLANK
10	CCV-1.CCV,1,	1	1000	Unknown		02/07/2024 10:11	Finished	CCV @5ppb, IWST-231228A
11	PQL @0.2ppb.CCV2,	2	1000	Unknown		02/07/2024 10:22	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	3	1000	Unknown		02/07/2024 10:31	Finished	CCB R240103B
13	MB-H2O.MBLK,1,	4	1000	Unknown		02/07/2024 10:40	Finished	MB R240103B
14	LCS-H2O.LCS,1,	5	1000	Unknown		02/07/2024 10:50	Finished	LCS @5ppb, IWST-231228B
15	N062938-004A.SAMP	1	1000	Unknown		02/07/2024 11:08	Finished	SAMP,10 mL
16	N062938-004AMS.MS	2	1000	Unknown		02/07/2024 11:19	Finished	MS (5ppb), IWST-231228B,10r
17	N062938-001A.SAMP	3	1000	Unknown		02/07/2024 11:28	Finished	SAMP,10 mL
18	N062938-001AMS.MS	4	1000	Unknown		02/07/2024 11:37	Finished	MS (1ppb), IWST-231228B,10r
19	N062938-002A.SAMP	5	1000	Unknown		02/07/2024 11:47	Finished	SAMP,2>10 mL
20	N062938-002AMS.MS	6	1000	Unknown		02/07/2024 11:56	Finished	MS (5ppb), IWST-231228B,2>
21	N062938-008A.SAMP	7	1000	Unknown		02/07/2024 12:06	Finished	SAMP,10 mL
22	N062938-008AMS.MS	8	1000	Unknown		02/07/2024 12:15	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2.CCV,1,	9	1000	Unknown		02/07/2024 12:25	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		02/07/2024 12:34	Finished	CCB R240103B
25	N062938-003A.SAMP	11	1000	Unknown		02/07/2024 12:44	Finished	SAMP,2>10 mL
26	N062938-003AMS.MS	12	1000	Unknown		02/07/2024 12:53	Finished	MS (5ppb), IWST-231228B,2>
27	N062938-005A.SAMP	13	1000	Unknown		02/07/2024 13:03	Finished	SAMP,10 mL
28	N062938-005AMS.MS	14	1000	Unknown		02/07/2024 13:12	Finished	MS (1ppb), IWST-231228B,10r
29	N062938-006A.SAMP	15	1000	Unknown		02/07/2024 13:22	Finished	SAMP,10 mL
30	N062938-006AMS.MS	16	1000	Unknown		02/07/2024 13:31	Finished	MS (1ppb), IWST-231228B,10r
31	N062938-016A.SAMP	1	1000	Unknown		02/07/2024 13:46	Finished	SAMP,2>10 mL
32	N062938-016AMS.MS	2	1000	Unknown		02/07/2024 13:57	Finished	MS (5ppb), IWST-231228B,2>
33	N062938-014A.SAMP	3	1000	Unknown		02/07/2024 14:07	Finished	SAMP,10 mL
34	N062938-014AMS.MS	4	1000	Unknown		02/07/2024 14:16	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3.CCV,1,	5	1000	Unknown		02/07/2024 14:26	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	6	1000	Unknown		02/07/2024 14:35	Finished	CCB R240103B
37	N062938-004A.SAMP	1	1000	Unknown		02/07/2024 14:56	Finished	SAMP,2>10 mL
38	N062938-004AMS.MS	2	1000	Unknown		02/07/2024 15:08	Finished	MS (5ppb), IWST-231228B,2>
39	N062938-004AMSD.MS	3	1000	Unknown		02/07/2024 15:18	Finished	MSD (5ppb), IWST-231228B,2>
40	N062938-004ADUP.D	4	1000	Unknown		02/07/2024 15:27	Finished	DUP,2>10 mL
41	N062938-015A.SAMP	5	1000	Unknown		02/07/2024 15:36	Finished	SAMP,10 mL
42	N062938-015AMS.MS	6	1000	Unknown		02/07/2024 15:46	Finished	MS (5ppb), IWST-231228B,10r
43	N062938-010A.SAMP	7	1000	Unknown		02/07/2024 15:55	Finished	SAMP,10 mL
44	N062938-010AMS.MS	8	1000	Unknown		02/07/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
45	N062938-012A.SAMP	9	1000	Unknown		02/07/2024 16:14	Finished	SAMP,10 mL
46	N062938-012AMS.MS	10	1000	Unknown		02/07/2024 16:24	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	11	1000	Unknown		02/07/2024 16:33	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	12	1000	Unknown		02/07/2024 16:43	Finished	CCB R240103B
49	N062938-007A.SAMP	13	1000	Unknown		02/07/2024 16:52	Finished	SAMP,10 mL
50	N062938-007AMS.MS	14	1000	Unknown		02/07/2024 17:02	Finished	MS (1ppb), IWST-231228B,10r
51	N062938-013A.SAMP	15	1000	Unknown		02/07/2024 17:11	Finished	SAMP,10 mL
52	N062938-013AMS.MS	16	1000	Unknown		02/07/2024 17:21	Finished	MS (1ppb), IWST-231228B,10r
53	N062938-018A.SAMP	17	1000	Unknown		02/07/2024 17:30	Finished	SAMP,10 mL
54	N062938-018AMS.MS	18	1000	Unknown		02/07/2024 17:40	Finished	MS (1ppb), IWST-231228B,10r
55	N062938-009A.SAMP	19	1000	Unknown		02/07/2024 17:49	Finished	SAMP,10 mL
56	N062938-009AMS.MS	20	1000	Unknown		02/07/2024 17:59	Finished	MS (1ppb), IWST-231228B,10r
57	N062938-011A.SAMP	21	1000	Unknown		02/07/2024 18:08	Finished	SAMP,10 mL
58	N062938-011AMS.MS	22	1000	Unknown		02/07/2024 18:18	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5.CCV,1,	23	1000	Unknown		02/07/2024 18:27	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	24	1000	Unknown		02/07/2024 18:36	Finished	CCB R240103B

61	N062938-019A,SAMF	25	1000	Unknown	02/07/2024 18:46	Finished	SAMP,10 mL
62	N062938-019AMS,M\$	26	1000	Unknown	02/07/2024 18:55	Finished	MS (1ppb), IWST-231228B,10r
63	N062938-017A,SAMF	27	1000	Unknown	02/07/2024 19:05	Finished	SAMP,2>10 mL
64	N062938-017AMS,M\$	28	1000	Unknown	02/07/2024 19:14	Finished	MS (1ppb), IWST-231228B,2>
65	N062938-005A,SAMF	29	1000	Unknown	02/07/2024 19:24	Finished	SAMP,2>10 mL
66	N062938-005AMS,M\$	30	1000	Unknown	02/07/2024 19:33	Finished	MS (1ppb), IWST-231228B,2>
67	N062938-006A,SAMF	31	1000	Unknown	02/07/2024 19:46	Finished	SAMP,2>10 mL
68	N062938-006AMS,M\$	32	1000	Unknown	02/07/2024 19:56	Finished	MS (1ppb), IWST-231228B,2>
69	N062938-007A,SAMF	33	1000	Unknown	02/07/2024 20:05	Finished	SAMP,2>10 mL
70	N062938-007AMS,M\$	34	1000	Unknown	02/07/2024 20:14	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	35	1000	Unknown	02/07/2024 20:24	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	36	1000	Unknown	02/07/2024 20:33	Finished	CCB R240103B
73	N062911-002A,SAMF	37	1000	Unknown	02/07/2024 20:43	Finished	SAMP,10 mL
74	N062911-002AMS,M\$	38	1000	Unknown	02/07/2024 20:52	Finished	MS (1ppb), IWST-231228B,10r
75	N062938-016A,SAMF	39	1000	Unknown	02/07/2024 21:02	Finished	SAMP,0.5>10 mL
76	N062938-016AMS,M\$	40	1000	Unknown	02/07/2024 21:11	Finished	MS (5ppb), IWST-231228B,0.5
77	N062938-004AMSD,M	2	1000	Unknown	02/07/2024 21:53	Finished	MSD (5ppb), IWST-231228B,2
78	CCV-7,CCV,1,	1	1000	Unknown	02/07/2024 22:11	Finished	CCV @5ppb, IWST-231228A
79	CCB-7,CCB,1,	2	1000	Unknown	02/07/2024 22:22	Finished	CCB R240103B
80	N062938-014A,SAMF	3	1000	Unknown	02/07/2024 22:31	Finished	SAMP,10 mL
81	N062938-014AMS,M\$	4	1000	Unknown	02/07/2024 22:41	Finished	MS (1ppb), IWST-231228B,10r
82	N062938-015A,SAMF	5	1000	Unknown	02/07/2024 22:50	Finished	SAMP,1>10 mL
83	N062938-015AMS,M\$	6	1000	Unknown	02/07/2024 22:59	Finished	MS (5ppb), IWST-231228B,1>
84	N062938-009A,SAMF	7	1000	Unknown	02/07/2024 23:09	Finished	SAMP,10 mL
85	N062938-009AMS,M\$	8	1000	Unknown	02/07/2024 23:18	Finished	MS (1ppb), IWST-231228B,10r
86	CCV-8,CCV1,1,	9	1000	Unknown	02/07/2024 23:28	Finished	CCV @10ppb, IWST-231228A
87	CCB-8,CCB,1,	10	1000	Unknown	02/07/2024 23:37	Finished	CCB R240103B
88	BLANK	11	1000	Unknown	02/07/2024 23:47	Finished	BLANK
89	SHUTDOWN	12	1000	Unknown	02/07/2024 23:56	Finished	
90	Eluent: R240205A	13	1000	Unknown	n.a.	Finished	
91	PCR: R240205B	14	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 2/6/24
 Time Prepared: 0918H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14325
 Diphenylcarbazide: 15209
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240103B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062911-1A	9.40	-	-250ml	-250ml		
2)	2A	9.31	-				
3)	3A	9.24	-				
4)	4A	9.48	-				
5)	5A	9.70	-				
6)	6A	9.26	-				
7)	7A	9.44	-				
8)	8A	9.44	-				
9)	9A	9.51	-				
10)	10A	9.71	-				
11)	11A	9.40	-				
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 2/7/24
 Time Prepared: 0958H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 14324
 Diphenylcarbazide: 15209
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240103B

C-1078
 N242815

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N062918-1A	9.42	-	-250ml	-250ml		
2)	2A	9.34	-				
3)	3A	9.52	-				
4)	4A	9.38	-				
5)	5A	8.84	9.38			+ 5	
6)	6A	8.05	9.41			+ 6	
7)	7A	8.91	9.43			+ 4	
8)	8A	8.68	9.44			+ 6	
9)	9A	9.68	-				
10)	10A	9.32	-				
11)	11A	9.64	-				
12)	12A	9.29	-				
13)	13A	9.41	-				
14)	14A	9.48	-				
15)	15A	9.54	-				
	16A	9.50	-				

Logbook No. 24



ASSET LABORATORIES
 ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CALIFORNIA | P: 562.219.7435 F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert N00922
 ORELAP Cert 4046 (EPA TO-15 & TO-17)

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 2/7/24
 Time Prepared: 0958A
 Prepared By: mf

Reagent ID: _____
 Sulfuric Acid: 14225
 Diphenylcarbazine: 15709
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240107B

GPM
 N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N24028-17A	9.10	7.79	-250ml	-250ml	+3	
2)	18A	9.11	9.36			+3	
3)	19A	9.62	-				
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 2/8/24
 Time Prepared: 0846H
 Prepared By: NA

Reagent ID: _____
 Sulfuric Acid: 14225
 Diphenylcarbazine: 15709
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240107B

6M NaOH
 N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N262166-1A	9.74	-	-250ml	-250ml		
2)	2A	9.68	-				
3)	3A	9.28	-				
4)	4A	9.62	-				
5)	5A	9.47	-				
6)	6A	9.40	-				
7)	7A	9.65	-				
8)	8A	9.28	-				
9)	9A	9.14	9.30			+3	
10)	10A	9.32	-				
11)	11A	9.66	-				
12)	12A	9.34	-				
13)	13A	9.26	-				
14)	14A	9.54	-				
15)	15A	9.50	-				
	16A	9.52	-				

Logbook No. 24



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Serving Clients with Passion and Professionalism™

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 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00022
 ORELAP Cert 4046 (EPA T915 & T930)

112
75 of 100

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 2/5/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0427	0.2063	1.0639	2.1157	3.2270	4.3227	0.9999
Measured, in ug/L	0.1985	0.9592	4.9461	9.8357	15.0023	20.0959	0.9999
Relative Error (%RE)		-4%		-2%			

	Stock	Working
Standard Concentration:	1000000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{ (B - A) / A \} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ICV	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5677936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.834 0.20 5.000 0 96.7 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5677937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.180 0.20 0.2000 0 90.1 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.904 0.20 5.000 0 98.1 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.180 0.20 0.2000 0 89.8 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 9.811 0.20 10.00 0 98.1 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677954							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.893	0.20	5.000	0	97.9	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677963							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.984	0.20	10.00	0	99.8	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677973							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.816	0.20	5.000	0	96.3	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZ	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.806	0.20	10.00	0	98.1	95	105
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCV	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.932	0.20	5.000	0	98.6	95	105
---------------------	-------	------	-------	---	------	----	-----

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ZZZZZZ	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.921	0.20	10.00	0	99.2	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: ICB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5677938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677955						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320						
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6		Analysis Date: 2/7/2024	SeqNo: 5677964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - Calculations are based on raw values
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677974	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677984	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677991	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID: CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181320
Client ID: CCB	Batch ID: R181320	TestNo: EPA 218.6	Analysis Date: 2/7/2024	SeqNo: 5677999	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

MB-R181320	N.A.	N.A.
LCS-R181320	4.040	PASS
N062938-004A	3.865	PASS
N062938-004AMS	3.865	PASS
N062938-001A	3.848	PASS
N062938-001AMS	3.848	PASS
N062938-002A	4.015	PASS
N062938-002AMS	4.023	PASS
N062938-008A	N.A.	N.A.
N062938-008AMS	3.873	PASS
N062938-003A	4.015	PASS
N062938-003AMS	4.015	PASS
N062938-005A	N.A.	N.A.
N062938-006A	N.A.	N.A.
N062938-016A	4.006	PASS
N062938-016AMS	3.998	PASS
N062938-014A	4.023	PASS
N062938-014AMS	4.031	PASS
N062938-004A	4.023	PASS
N062938-004AMS	4.015	PASS

Reviewed by:

MRecha 2/22/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

N062938-004AMSD	4.015	PASS
N062938-004ADUP	4.023	PASS
N062938-015A	3.923	PASS
N062938-015AMS	3.923	PASS
N062938-010A	4.040	PASS
N062938-010AMS	4.031	PASS
N062938-012A	N.A.	N.A.
N062938-012AMS	4.040	PASS
N062938-007A	N.A.	N.A.
N062938-007AMS	3.865	PASS
N062938-013A	N.A.	N.A.
N062938-013AMS	4.048	PASS
N062938-018A	N.A.	N.A.
N062938-018AMS	4.031	PASS
N062938-009A	N.A.	N.A.
N062938-009AMS	4.056	PASS
N062938-011A	N.A.	N.A.
N062938-011AMS	4.056	PASS
N062938-019A	N.A.	N.A.
N062938-019AMS	4.048	PASS

Reviewed by:

dMocha 2/22/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	
CCV-8	4.048	

Average 4.047
Actual RT Window 3.967 - 4.127
Applied RT Window 3.847 - 4.247

N062938-017A	N.A.	N.A.
N062938-017AMS	4.023	PASS
N062938-005A	N.A.	N.A.
N062938-005AMS	4.006	PASS
N062938-006A	N.A.	N.A.
N062938-006AMS	4.015	PASS
N062938-007A	N.A.	N.A.
N062938-007AMS	4.015	PASS
N062911-002A	N.A.	N.A.
N062911-002AMS	3.848	PASS
N062938-016A	4.031	PASS
N062938-016AMS	4.031	PASS
N062938-004AMSD	4.015	PASS
N062938-014A	4.023	PASS
N062938-014AMS	4.023	PASS
N062938-015A	4.031	PASS
N062938-015AMS	4.031	PASS
N062938-009A	N.A.	N.A.
N062938-009AMS	4.048	PASS

Reviewed by:

dMocha 2/22/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INITIAL CALIBRATION



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary


Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1,	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

Reviewed by:

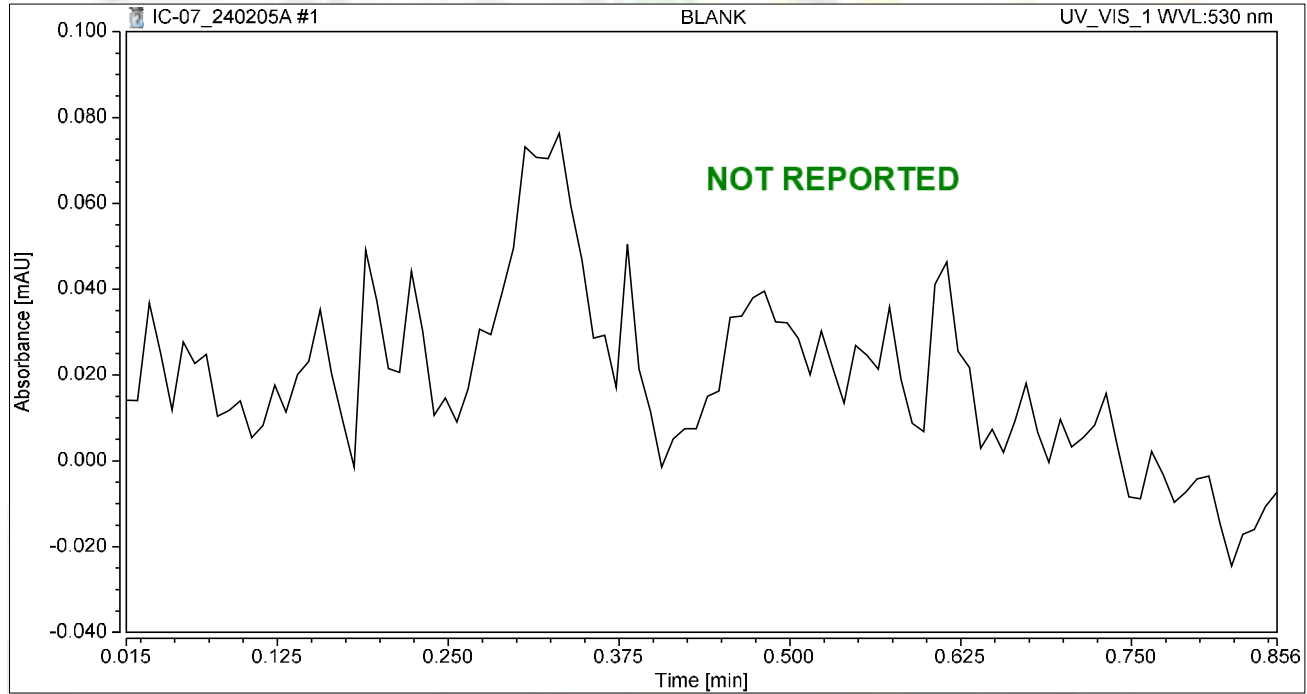
 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.84
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 11:59	Sample Weight:	1.0000

Chromatogram



Integration Results

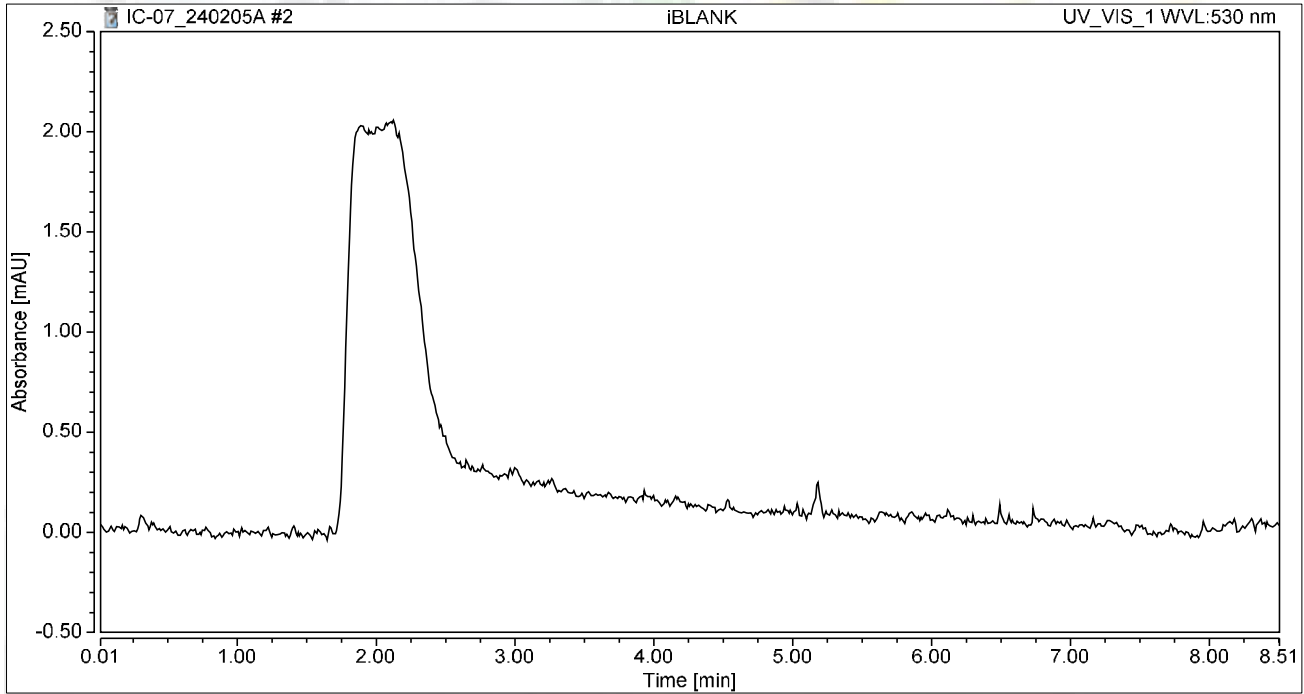
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

jrb

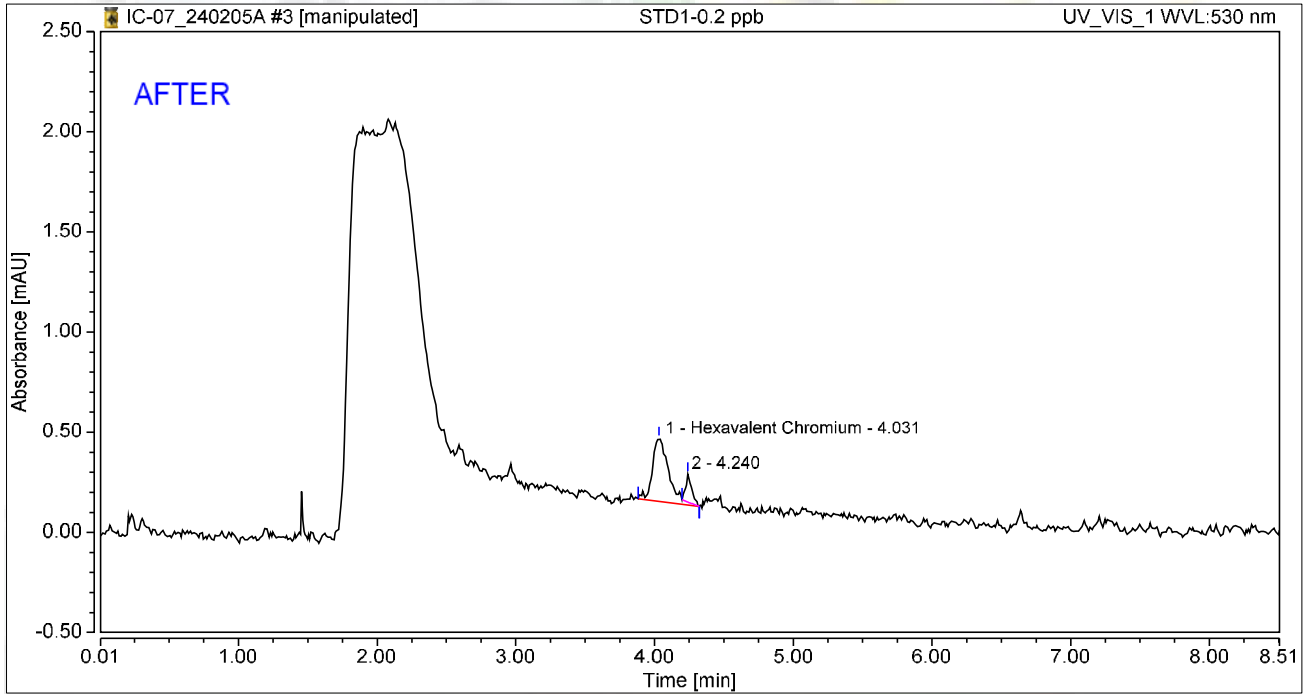
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.043	0.313	85.65	69.19	0.1985
2		4.240	0.007	0.139	14.35	30.81	n.a.
Total:			0.050	0.452	100.00	100.00	

Reviewed by:

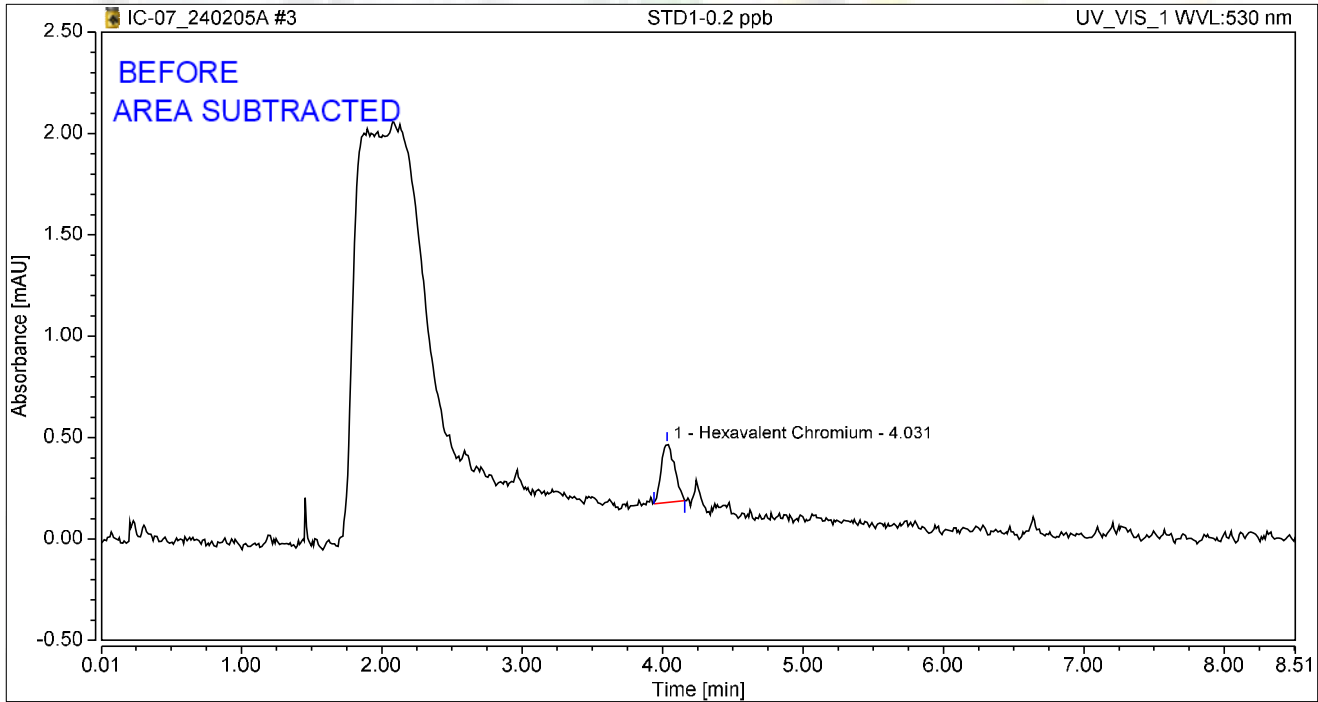
JRB 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight:	1.0000

Chromatogram



Integration Results

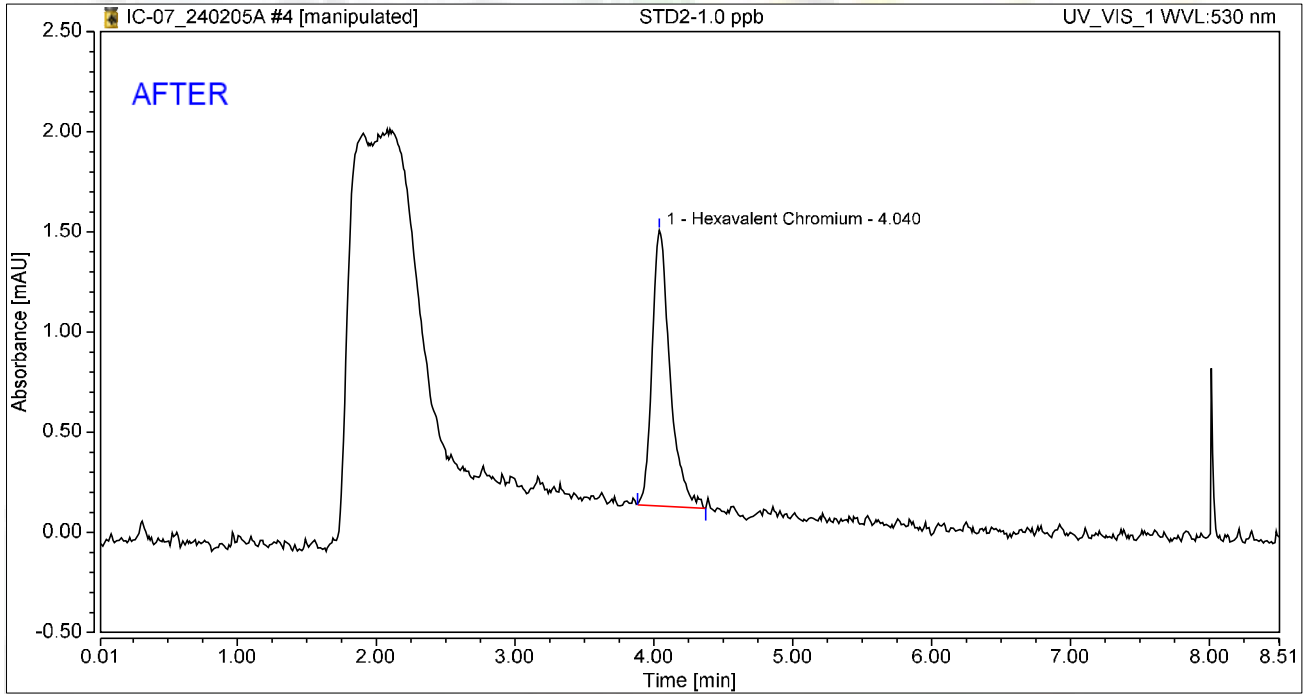
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.032	0.288	100.00	100.00	0.1502
Total:			0.032	0.288	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.206	1.377	100.00	100.00	0.9592
Total:			0.206	1.377	100.00	100.00	

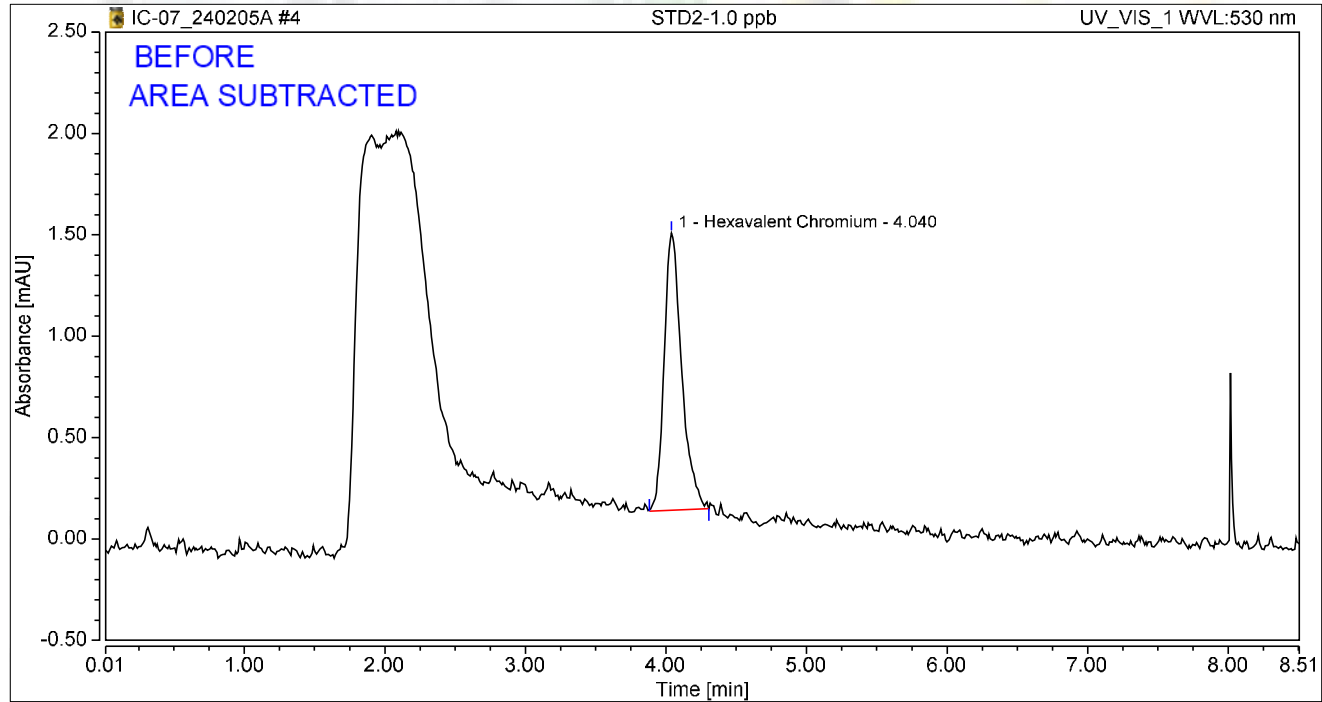
Reviewed by:

JRB 2/19/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD2-1.0 ppb	Run Time (min): 8.49
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	02	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight: 1.0000

Chromatogram



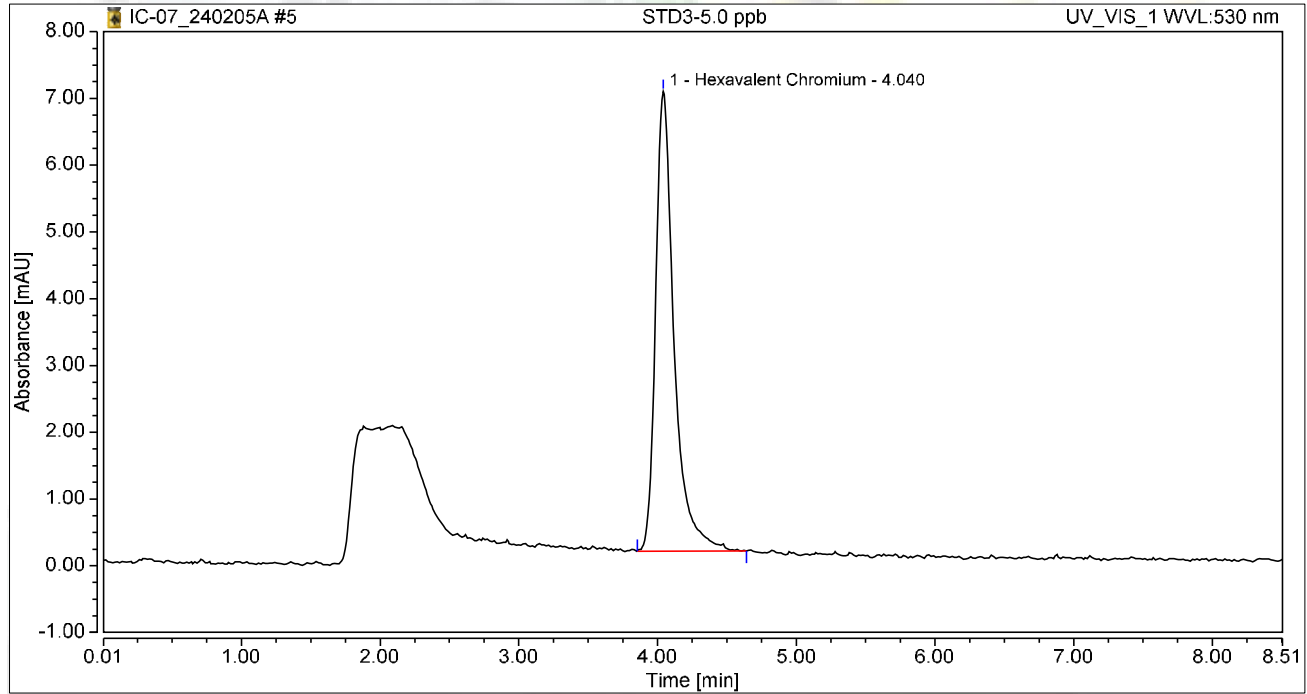
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.198	1.367	100.00	100.00	0.9223
Total:			0.198	1.367	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:38	Sample Weight:	1.0000

Chromatogram



Integration Results

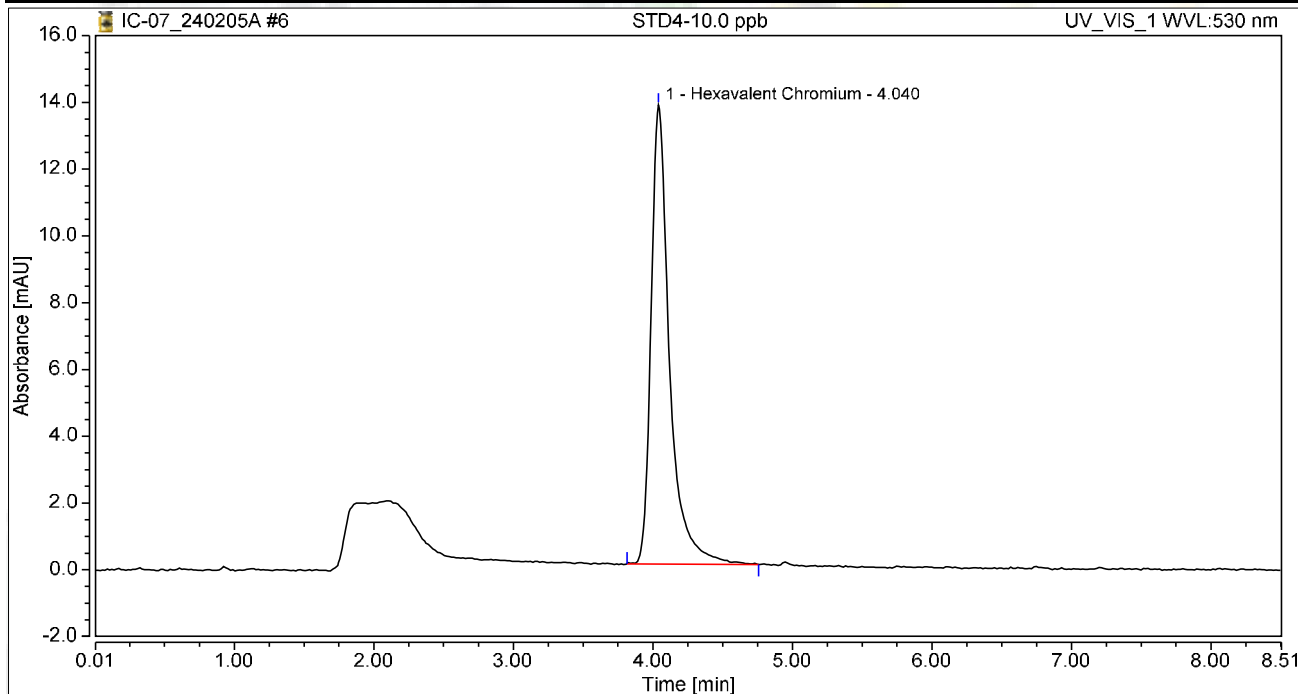
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.064	6.885	100.00	100.00	4.9461
Total:			1.064	6.885	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:47	Sample Weight:	1.0000

Chromatogram



Integration Results

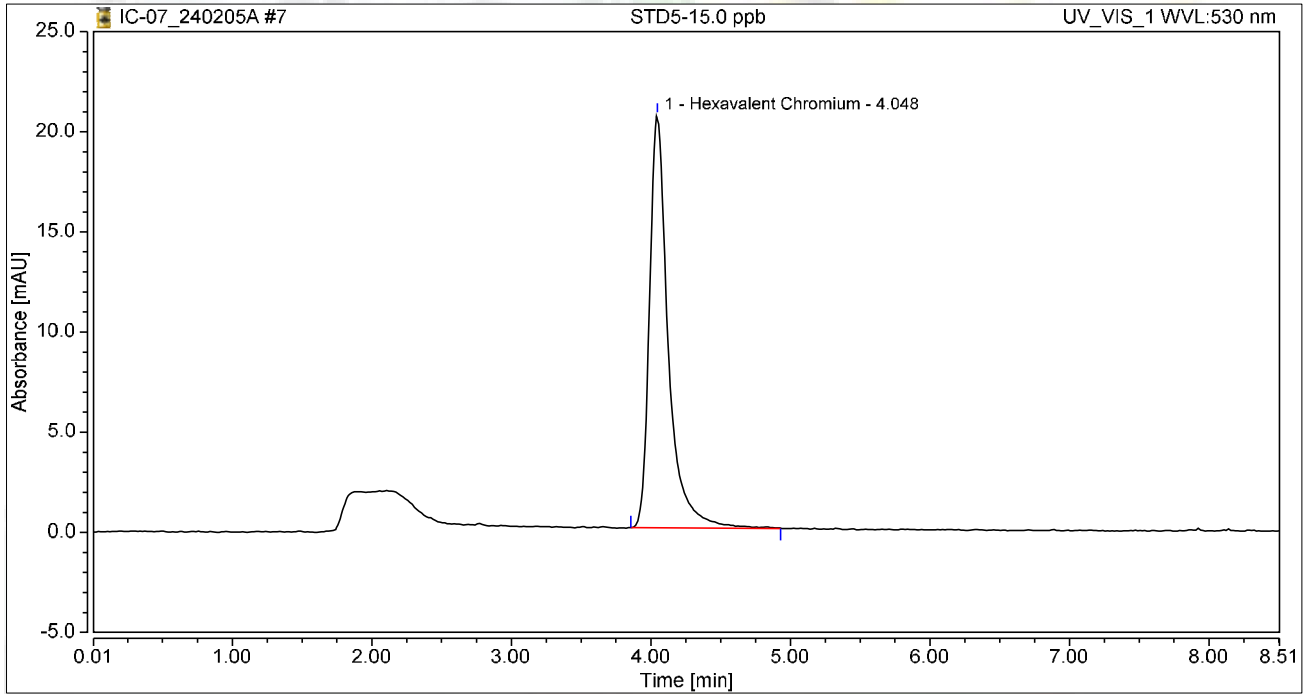
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.116	13.748	100.00	100.00	9.8357
Total:			2.116	13.748	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:57	Sample Weight:	1.0000

Chromatogram



Integration Results

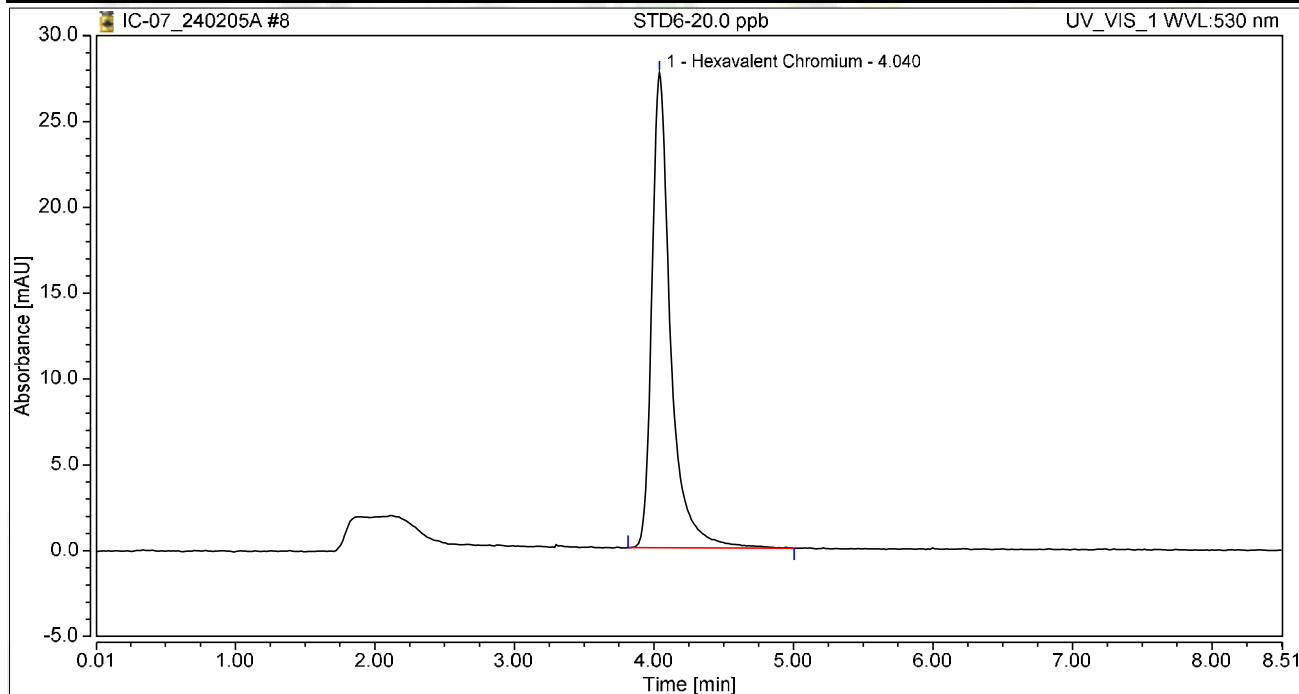
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	3.227	20.605	100.00	100.00	15.0023
Total:			3.227	20.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:08	Sample Weight:	1.0000

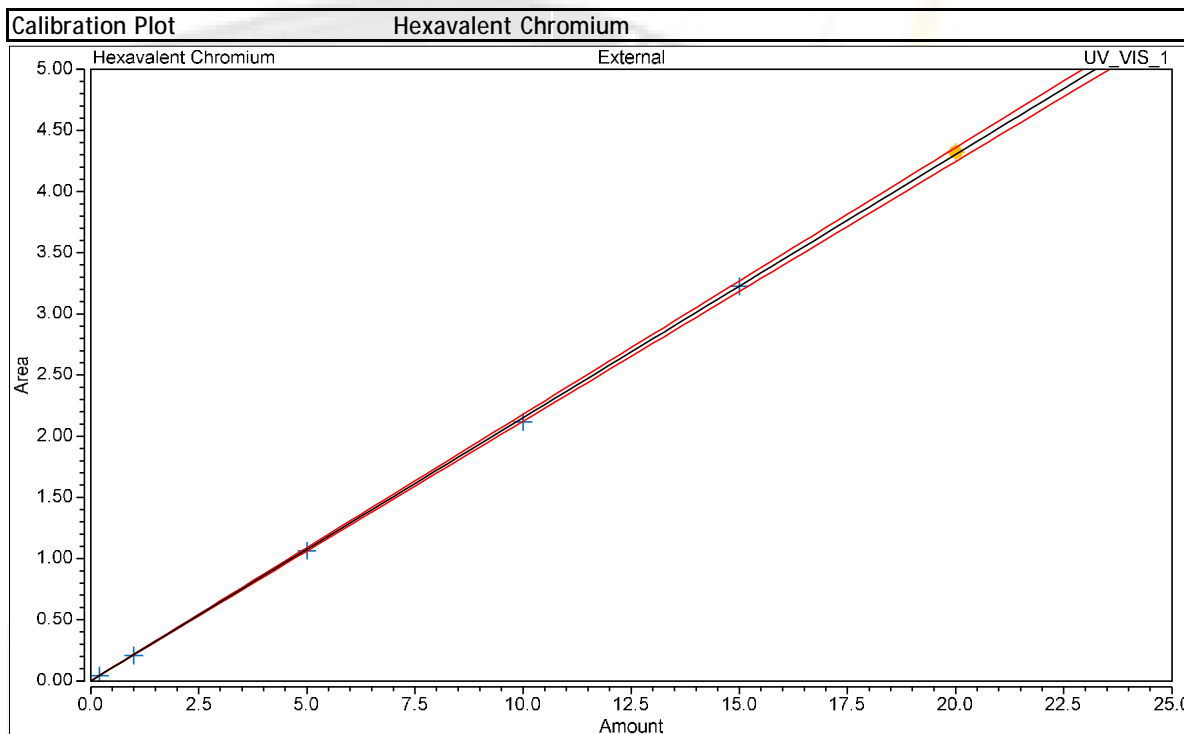
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	4.323	27.676	100.00	100.00	20.0959
Total:			4.323	27.676	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2151
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99987



Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0427	0.043	0.313
4	STD2-1.0 ppb	02	1.0000	0.2063	0.206	1.377
5	STD3-5.0 ppb	03	5.0000	1.0639	1.064	6.885
6	STD4-10.0 ppb	04	10.0000	2.1157	2.116	13.748
7	STD5-15.0 ppb	05	15.0000	3.2270	3.227	20.605
8	STD6-20.0 ppb	06	20.0000	4.3227	4.323	27.676

Reviewed by:

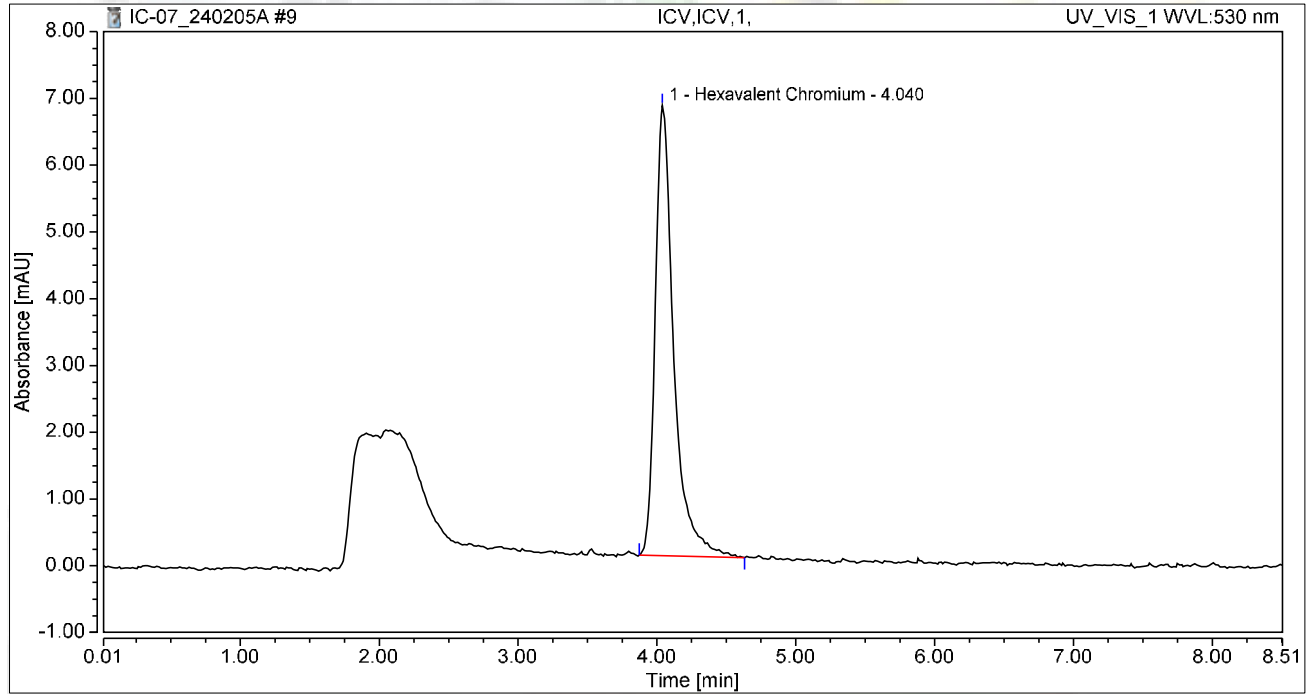
JRB 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:21	Sample Weight:	1.0000

Chromatogram



Integration Results

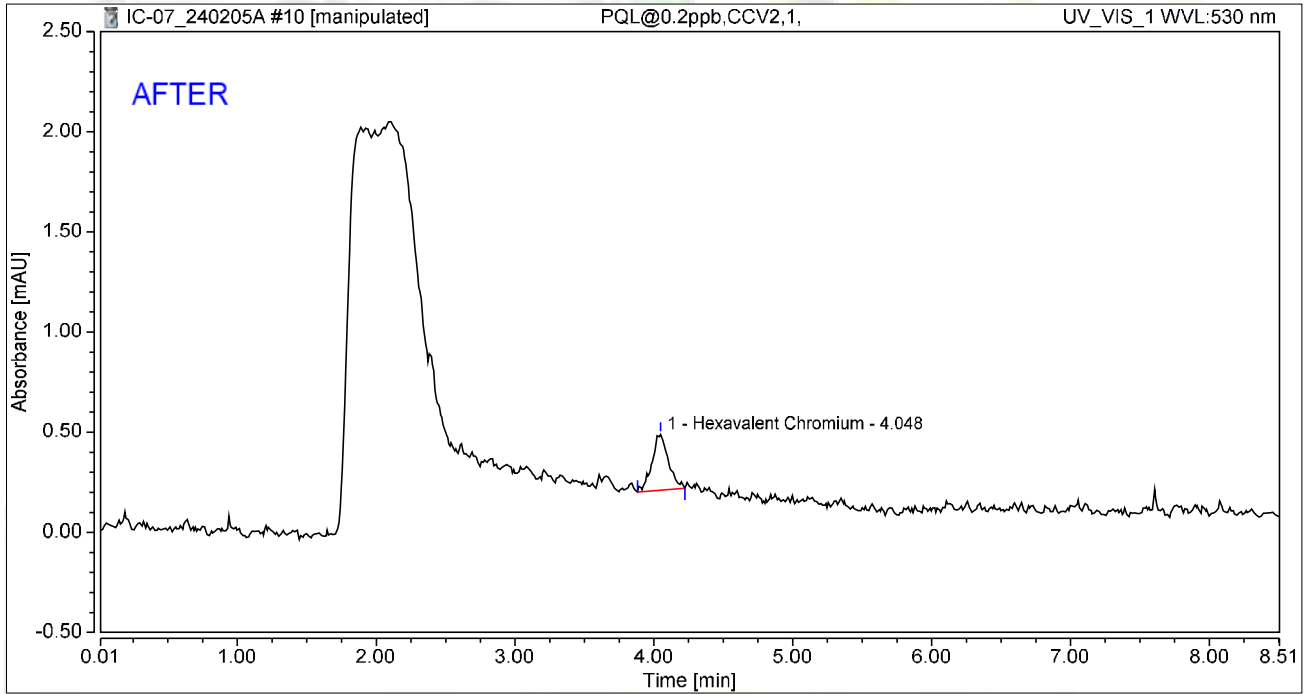
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.040	6.743	100.00	100.00	4.8342
Total:			1.040	6.743	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.039	0.279	100.00	100.00	0.1802
Total:			0.039	0.279	100.00	100.00	

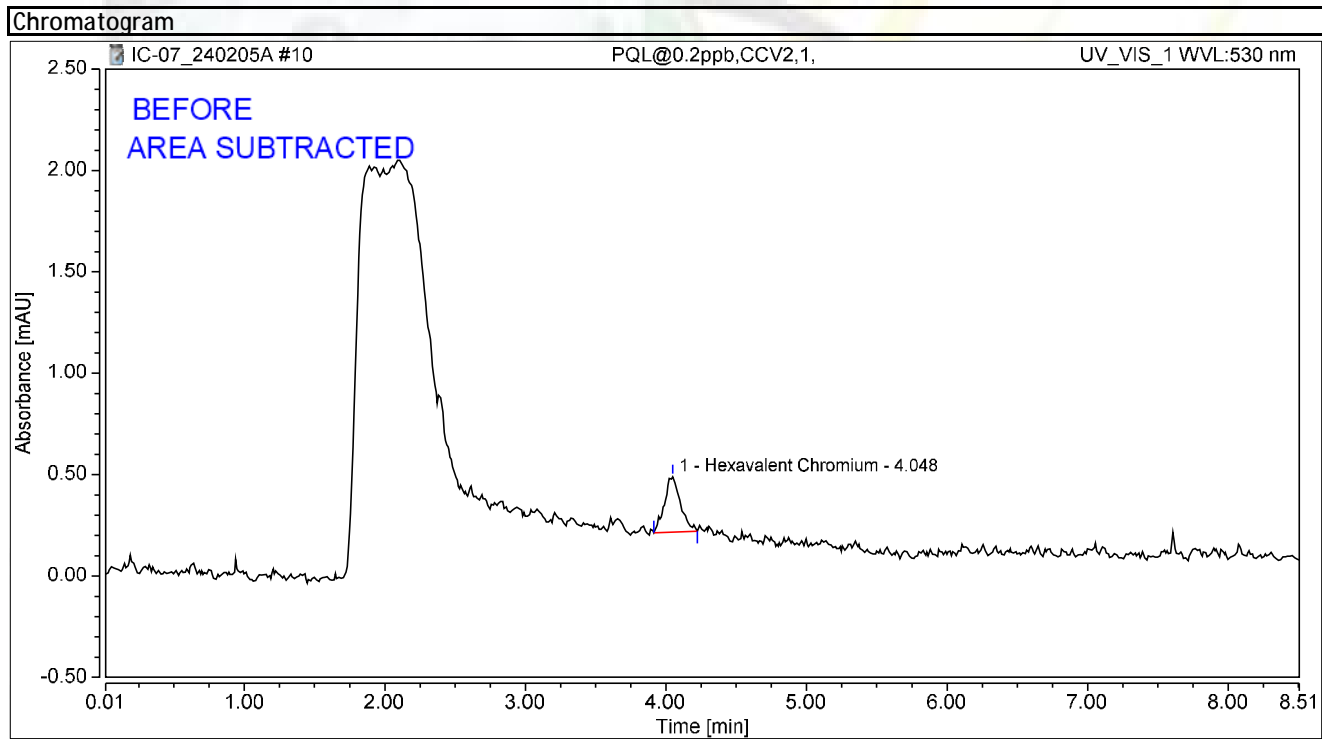
Reviewed by:

jrb

2/19/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight: 1.0000



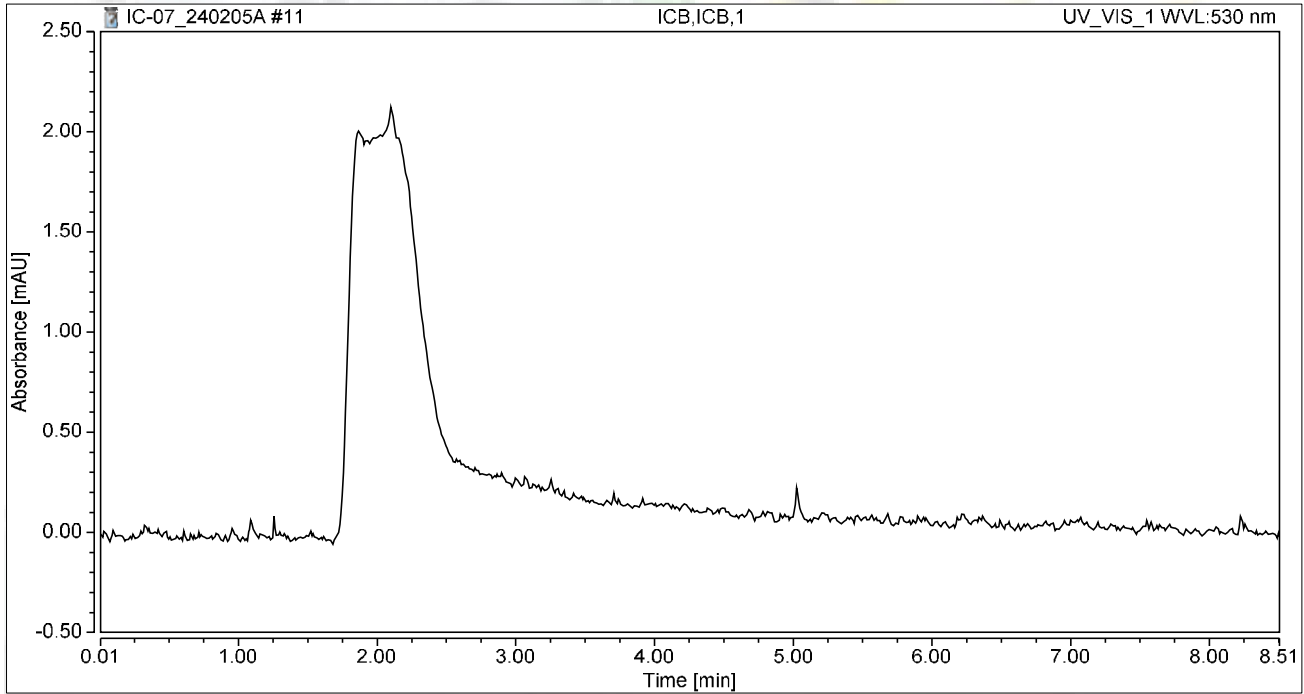
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.036	0.273	100.00	100.00	0.1694
Total:			0.036	0.273	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:40	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

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RAW DATA



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691


"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/07/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/07/24 10:22 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/07/24 10:31 AM	Reported
13	MB-R181320	MBLK	1	Hexavalent Chromium	02/07/24 10:40 AM	Reported
14	LCS-R181320	LCS	1	Hexavalent Chromium	02/07/24 10:50 AM	Reported
15	N062938-004A	SAMP	1	Hexavalent Chromium	02/07/24 11:08 AM	Not Reported
16	N062938-004AMS	MS	1	Hexavalent Chromium	02/07/24 11:19 AM	Not Reported
17	N062938-001A	SAMP	1	Hexavalent Chromium	02/07/24 11:28 AM	Reported
18	N062938-001AMS	MS	1	Hexavalent Chromium	02/07/24 11:37 AM	Reported
19	N062938-002A	SAMP	5	Hexavalent Chromium	02/07/24 11:47 AM	Reported
20	N062938-002AMS	MS	5	Hexavalent Chromium	02/07/24 11:56 AM	Reported
21	N062938-008A	SAMP	1	Hexavalent Chromium	02/07/24 12:06 PM	Reported
22	N062938-008AMS	MS	1	Hexavalent Chromium	02/07/24 12:15 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/07/24 12:25 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/07/24 12:34 PM	Reported
25	N062938-003A	SAMP	5	Hexavalent Chromium	02/07/24 12:44 PM	Reported
26	N062938-003AMS	MS	5	Hexavalent Chromium	02/07/24 12:53 PM	Reported
27	N062938-005A	SAMP	1	Hexavalent Chromium	02/07/24 1:03 PM	Not Reported
28	N062938-005AMS	MS	1	Hexavalent Chromium	02/07/24 1:12 PM	Not Reported
29	N062938-006A	SAMP	1	Hexavalent Chromium	02/07/24 1:22 PM	Not Reported
30	N062938-006AMS	MS	1	Hexavalent Chromium	02/07/24 1:31 PM	Not Reported
31	N062938-016A	SAMP	5	Hexavalent Chromium	02/07/24 1:46 PM	Not Reported
32	N062938-016AMS	MS	5	Hexavalent Chromium	02/07/24 1:57 PM	Not Reported
33	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 2:07 PM	Not Reported
34	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 2:16 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/07/24 2:26 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/07/24 2:35 PM	Reported
37	N062938-004A	SAMP	5	Hexavalent Chromium	02/07/24 2:56 PM	Reported
38	N062938-004AMS	MS	5	Hexavalent Chromium	02/07/24 3:08 PM	Reported
39	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 3:18 PM	Not Reported
40	N062938-004ADUP	DUP	5	Hexavalent Chromium	02/07/24 3:27 PM	Reported
41	N062938-015A	SAMP	1	Hexavalent Chromium	02/07/24 3:36 PM	Not Reported
42	N062938-015AMS	MS	1	Hexavalent Chromium	02/07/24 3:46 PM	Not Reported

Reviewed by:

 2/20/2024

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062938-010A	SAMP	1	Hexavalent Chromium	02/07/24 3:55 PM	Reported
44	N062938-010AMS	MS	1	Hexavalent Chromium	02/07/24 4:05 PM	Reported
45	N062938-012A	SAMP	1	Hexavalent Chromium	02/07/24 4:14 PM	Reported
46	N062938-012AMS	MS	1	Hexavalent Chromium	02/07/24 4:24 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/07/24 4:33 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/07/24 4:43 PM	Reported
49	N062938-007A	SAMP	1	Hexavalent Chromium	02/07/24 4:52 PM	Reported
50	N062938-007AMS	MS	1	Hexavalent Chromium	02/07/24 5:02 PM	Reported
51	N062938-013A	SAMP	1	Hexavalent Chromium	02/07/24 5:11 PM	Reported
52	N062938-013AMS	MS	1	Hexavalent Chromium	02/07/24 5:21 PM	Reported
53	N062938-018A	SAMP	1	Hexavalent Chromium	02/07/24 5:30 PM	Reported
54	N062938-018AMS	MS	1	Hexavalent Chromium	02/07/24 5:40 PM	Reported
55	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 5:49 PM	Not Reported
56	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 5:59 PM	Not Reported
57	N062938-011A	SAMP	1	Hexavalent Chromium	02/07/24 6:08 PM	Reported
58	N062938-011AMS	MS	1	Hexavalent Chromium	02/07/24 6:18 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/07/24 6:27 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/07/24 6:36 PM	Reported
61	N062938-019A	SAMP	1	Hexavalent Chromium	02/07/24 6:46 PM	Reported
62	N062938-019AMS	MS	1	Hexavalent Chromium	02/07/24 6:55 PM	Reported
63	N062938-017A	SAMP	5	Hexavalent Chromium	02/07/24 7:05 PM	Reported
64	N062938-017AMS	MS	5	Hexavalent Chromium	02/07/24 7:14 PM	Reported
65	N062938-005A	SAMP	5	Hexavalent Chromium	02/07/24 7:24 PM	Reported
66	N062938-005AMS	MS	5	Hexavalent Chromium	02/07/24 7:33 PM	Reported
67	N062938-006A	SAMP	5	Hexavalent Chromium	02/07/24 7:46 PM	Reported
68	N062938-006AMS	MS	5	Hexavalent Chromium	02/07/24 7:56 PM	Reported
69	N062938-007A	SAMP	5	Hexavalent Chromium	02/07/24 8:05 PM	Not Reported
70	N062938-007AMS	MS	5	Hexavalent Chromium	02/07/24 8:14 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	02/07/24 8:24 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	02/07/24 8:33 PM	Reported
73	N062911-002A	SAMP	1	Hexavalent Chromium	02/07/24 8:43 PM	Reported
74	N062911-002AMS	MS	1	Hexavalent Chromium	02/07/24 8:52 PM	Reported
75	N062938-016A	SAMP	20	Hexavalent Chromium	02/07/24 9:02 PM	Reported
76	N062938-016AMS	MS	20	Hexavalent Chromium	02/07/24 9:11 PM	Reported
77	N062938-004AMSD	MSD	5	Hexavalent Chromium	02/07/24 9:53 PM	Reported
78	CCV-7	CCV	1	Hexavalent Chromium	02/07/24 10:11 PM	Reported
79	CCB-7	CCB	1	Hexavalent Chromium	02/07/24 10:22 PM	Reported
80	N062938-014A	SAMP	1	Hexavalent Chromium	02/07/24 10:31 PM	Reported
81	N062938-014AMS	MS	1	Hexavalent Chromium	02/07/24 10:41 PM	Reported
82	N062938-015A	SAMP	10	Hexavalent Chromium	02/07/24 10:50 PM	Reported
83	N062938-015AMS	MS	10	Hexavalent Chromium	02/07/24 10:59 PM	Reported
84	N062938-009A	SAMP	1	Hexavalent Chromium	02/07/24 11:09 PM	Reported

INJECTION LOG: 240207A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N062938-009AMS	MS	1	Hexavalent Chromium	02/07/24 11:18 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	02/07/24 11:28 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	02/07/24 11:37 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	02/07/24 11:47 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240207A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	08/Feb/24 00:17:33
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/07/2024 09:22	Finished	BLANK
10	CCV-1,CCV,1,	1	1000	Unknown		02/07/2024 10:11	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	2	1000	Unknown		02/07/2024 10:22	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	3	1000	Unknown		02/07/2024 10:31	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	4	1000	Unknown		02/07/2024 10:40	Finished	MB R240103B
14	LCS-H2O,LCS,1,	5	1000	Unknown		02/07/2024 10:50	Finished	LCS @5ppb, IWST-231228B
15	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 11:08	Finished	SAMP,10 mL
16	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 11:19	Finished	MS (5ppb), IWST-231228B,10r
17	N062938-001A,SAMF	3	1000	Unknown		02/07/2024 11:28	Finished	SAMP,10 mL
18	N062938-001AMS,M\$	4	1000	Unknown		02/07/2024 11:37	Finished	MS (1ppb), IWST-231228B,10r
19	N062938-002A,SAMF	5	1000	Unknown		02/07/2024 11:47	Finished	SAMP,2>10 mL
20	N062938-002AMS,M\$	6	1000	Unknown		02/07/2024 11:56	Finished	MS (5ppb), IWST-231228B,2>
21	N062938-008A,SAMF	7	1000	Unknown		02/07/2024 12:06	Finished	SAMP,10 mL
22	N062938-008AMS,M\$	8	1000	Unknown		02/07/2024 12:15	Finished	MS (1ppb), IWST-231228B,10r
23	CCV-2,CCV,1,	9	1000	Unknown		02/07/2024 12:25	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		02/07/2024 12:34	Finished	CCB R240103B
25	N062938-003A,SAMF	11	1000	Unknown		02/07/2024 12:44	Finished	SAMP,2>10 mL
26	N062938-003AMS,M\$	12	1000	Unknown		02/07/2024 12:53	Finished	MS (5ppb), IWST-231228B,2>
27	N062938-005A,SAMF	13	1000	Unknown		02/07/2024 13:03	Finished	SAMP,10 mL
28	N062938-005AMS,M\$	14	1000	Unknown		02/07/2024 13:12	Finished	MS (1ppb), IWST-231228B,10r
29	N062938-006A,SAMF	15	1000	Unknown		02/07/2024 13:22	Finished	SAMP,10 mL
30	N062938-006AMS,M\$	16	1000	Unknown		02/07/2024 13:31	Finished	MS (1ppb), IWST-231228B,10r
31	N062938-016A,SAMF	1	1000	Unknown		02/07/2024 13:46	Finished	SAMP,2>10 mL
32	N062938-016AMS,M\$	2	1000	Unknown		02/07/2024 13:57	Finished	MS (5ppb), IWST-231228B,2>
33	N062938-014A,SAMF	3	1000	Unknown		02/07/2024 14:07	Finished	SAMP,10 mL
34	N062938-014AMS,M\$	4	1000	Unknown		02/07/2024 14:16	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	5	1000	Unknown		02/07/2024 14:26	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	6	1000	Unknown		02/07/2024 14:35	Finished	CCB R240103B
37	N062938-004A,SAMF	1	1000	Unknown		02/07/2024 14:56	Finished	SAMP,2>10 mL
38	N062938-004AMS,M\$	2	1000	Unknown		02/07/2024 15:08	Finished	MS (5ppb), IWST-231228B,2>
39	N062938-004AMSD,N	3	1000	Unknown		02/07/2024 15:18	Finished	MSD (5ppb), IWST-231228B,2
40	N062938-004ADUP,D	4	1000	Unknown		02/07/2024 15:27	Finished	DUP,2>10 mL
41	N062938-015A,SAMF	5	1000	Unknown		02/07/2024 15:36	Finished	SAMP,10 mL
42	N062938-015AMS,M\$	6	1000	Unknown		02/07/2024 15:46	Finished	MS (5ppb), IWST-231228B,10r
43	N062938-010A,SAMF	7	1000	Unknown		02/07/2024 15:55	Finished	SAMP,10 mL
44	N062938-010AMS,M\$	8	1000	Unknown		02/07/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
45	N062938-012A,SAMF	9	1000	Unknown		02/07/2024 16:14	Finished	SAMP,10 mL
46	N062938-012AMS,M\$	10	1000	Unknown		02/07/2024 16:24	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	11	1000	Unknown		02/07/2024 16:33	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	12	1000	Unknown		02/07/2024 16:43	Finished	CCB R240103B
49	N062938-007A,SAMF	13	1000	Unknown		02/07/2024 16:52	Finished	SAMP,10 mL
50	N062938-007AMS,M\$	14	1000	Unknown		02/07/2024 17:02	Finished	MS (1ppb), IWST-231228B,10r
51	N062938-013A,SAMF	15	1000	Unknown		02/07/2024 17:11	Finished	SAMP,10 mL
52	N062938-013AMS,M\$	16	1000	Unknown		02/07/2024 17:21	Finished	MS (1ppb), IWST-231228B,10r
53	N062938-018A,SAMF	17	1000	Unknown		02/07/2024 17:30	Finished	SAMP,10 mL
54	N062938-018AMS,M\$	18	1000	Unknown		02/07/2024 17:40	Finished	MS (1ppb), IWST-231228B,10r
55	N062938-009A,SAMF	19	1000	Unknown		02/07/2024 17:49	Finished	SAMP,10 mL
56	N062938-009AMS,M\$	20	1000	Unknown		02/07/2024 17:59	Finished	MS (1ppb), IWST-231228B,10r
57	N062938-011A,SAMF	21	1000	Unknown		02/07/2024 18:08	Finished	SAMP,10 mL
58	N062938-011AMS,M\$	22	1000	Unknown		02/07/2024 18:18	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	23	1000	Unknown		02/07/2024 18:27	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	24	1000	Unknown		02/07/2024 18:36	Finished	CCB R240103B

61	N062938-019A,SAMF	25	1000	Unknown	02/07/2024 18:46	Finished	SAMP,10 mL
62	N062938-019AMS,M\$	26	1000	Unknown	02/07/2024 18:55	Finished	MS (1ppb), IWST-231228B,10r
63	N062938-017A,SAMF	27	1000	Unknown	02/07/2024 19:05	Finished	SAMP,2>10 mL
64	N062938-017AMS,M\$	28	1000	Unknown	02/07/2024 19:14	Finished	MS (1ppb), IWST-231228B,2>
65	N062938-005A,SAMF	29	1000	Unknown	02/07/2024 19:24	Finished	SAMP,2>10 mL
66	N062938-005AMS,M\$	30	1000	Unknown	02/07/2024 19:33	Finished	MS (1ppb), IWST-231228B,2>
67	N062938-006A,SAMF	31	1000	Unknown	02/07/2024 19:46	Finished	SAMP,2>10 mL
68	N062938-006AMS,M\$	32	1000	Unknown	02/07/2024 19:56	Finished	MS (1ppb), IWST-231228B,2>
69	N062938-007A,SAMF	33	1000	Unknown	02/07/2024 20:05	Finished	SAMP,2>10 mL
70	N062938-007AMS,M\$	34	1000	Unknown	02/07/2024 20:14	Finished	MS (1ppb), IWST-231228B,2>
71	CCV-6,CCV1,1,	35	1000	Unknown	02/07/2024 20:24	Finished	CCV @10ppb, IWST-231228A
72	CCB-6,CCB,1,	36	1000	Unknown	02/07/2024 20:33	Finished	CCB R240103B
73	N062911-002A,SAMF	37	1000	Unknown	02/07/2024 20:43	Finished	SAMP,10 mL
74	N062911-002AMS,M\$	38	1000	Unknown	02/07/2024 20:52	Finished	MS (1ppb), IWST-231228B,10r
75	N062938-016A,SAMF	39	1000	Unknown	02/07/2024 21:02	Finished	SAMP,0.5>10 mL
76	N062938-016AMS,M\$	40	1000	Unknown	02/07/2024 21:11	Finished	MS (5ppb), IWST-231228B,0.5
77	N062938-004AMSD,M	2	1000	Unknown	02/07/2024 21:53	Finished	MSD (5ppb), IWST-231228B,2
78	CCV-7,CCV,1,	1	1000	Unknown	02/07/2024 22:11	Finished	CCV @5ppb, IWST-231228A
79	CCB-7,CCB,1,	2	1000	Unknown	02/07/2024 22:22	Finished	CCB R240103B
80	N062938-014A,SAMF	3	1000	Unknown	02/07/2024 22:31	Finished	SAMP,10 mL
81	N062938-014AMS,M\$	4	1000	Unknown	02/07/2024 22:41	Finished	MS (1ppb), IWST-231228B,10r
82	N062938-015A,SAMF	5	1000	Unknown	02/07/2024 22:50	Finished	SAMP,1>10 mL
83	N062938-015AMS,M\$	6	1000	Unknown	02/07/2024 22:59	Finished	MS (5ppb), IWST-231228B,1>
84	N062938-009A,SAMF	7	1000	Unknown	02/07/2024 23:09	Finished	SAMP,10 mL
85	N062938-009AMS,M\$	8	1000	Unknown	02/07/2024 23:18	Finished	MS (1ppb), IWST-231228B,10r
86	CCV-8,CCV1,1,	9	1000	Unknown	02/07/2024 23:28	Finished	CCV @10ppb, IWST-231228A
87	CCB-8,CCB,1,	10	1000	Unknown	02/07/2024 23:37	Finished	CCB R240103B
88	BLANK	11	1000	Unknown	02/07/2024 23:47	Finished	BLANK
89	SHUTDOWN	12	1000	Unknown	02/07/2024 23:56	Finished	
90	Eluent: R240205A	13	1000	Unknown	n.a.	Finished	
91	PCR: R240205B	14	1000	Unknown	n.a.	Finished	

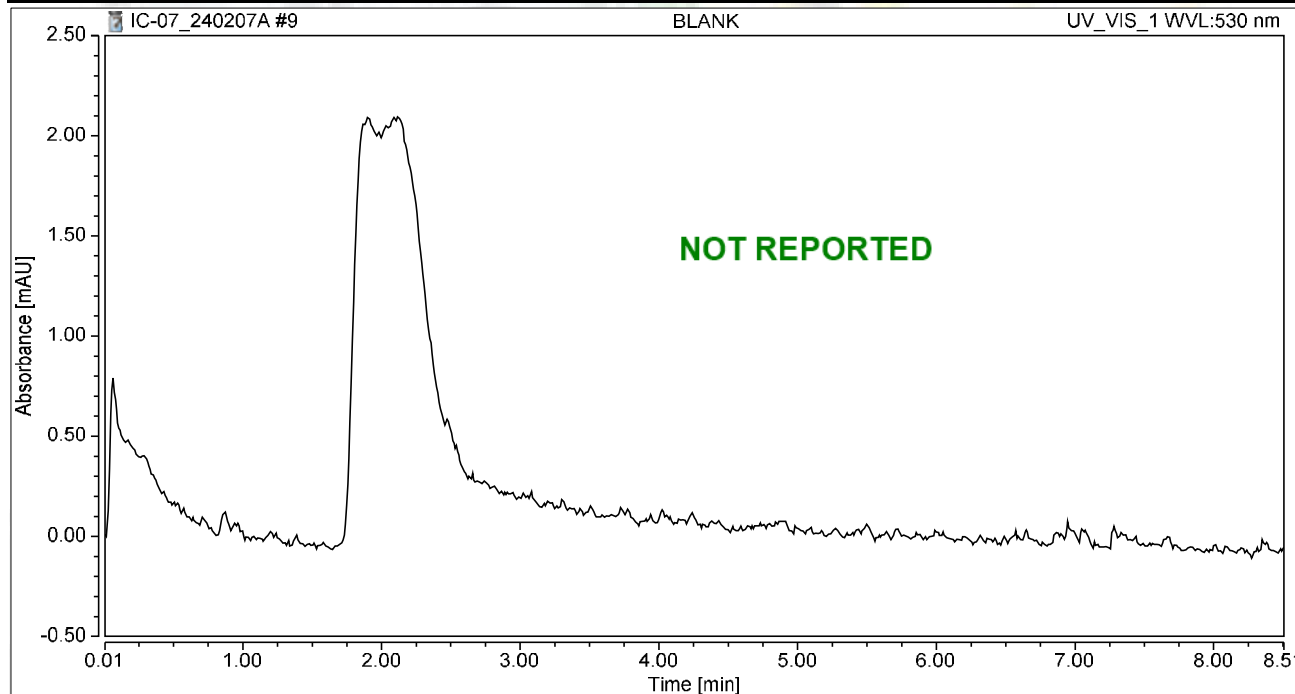


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 09:22	Sample Weight:	1.0000

Chromatogram



Integration Results

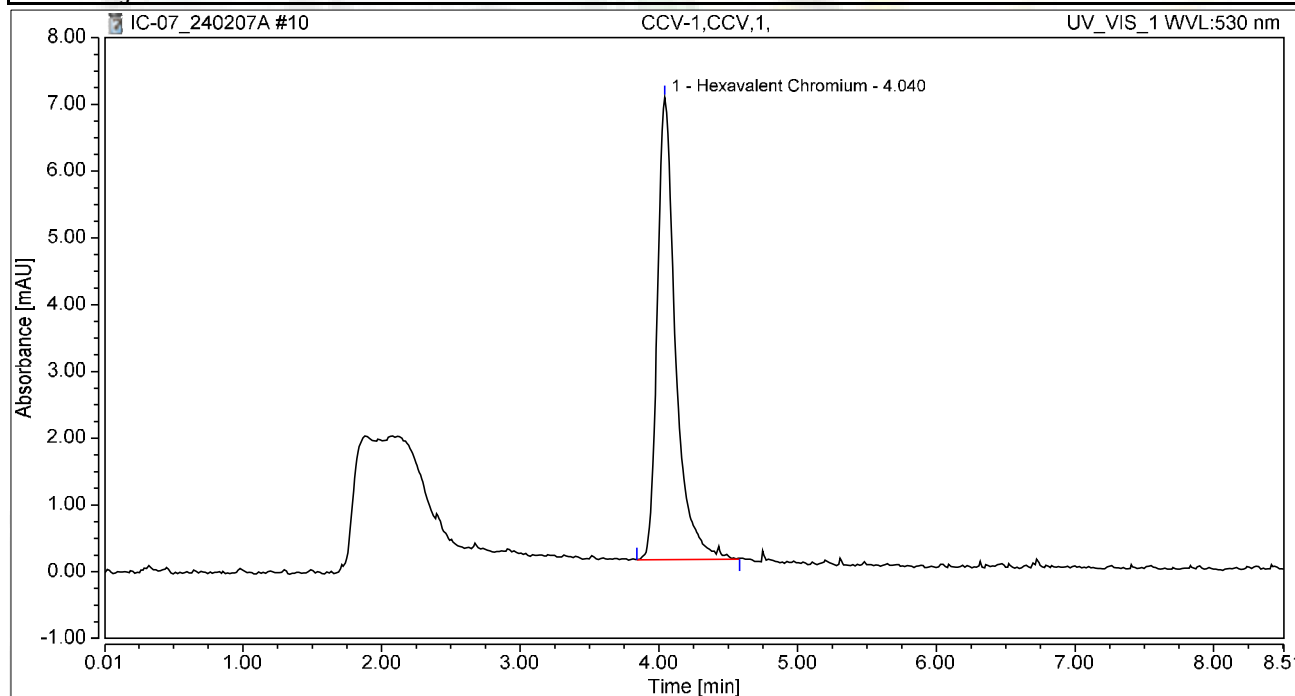
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.055	6.919	100.00	100.00	4.9039
Total:			1.055	6.919	100.00	100.00	

Reviewed by:

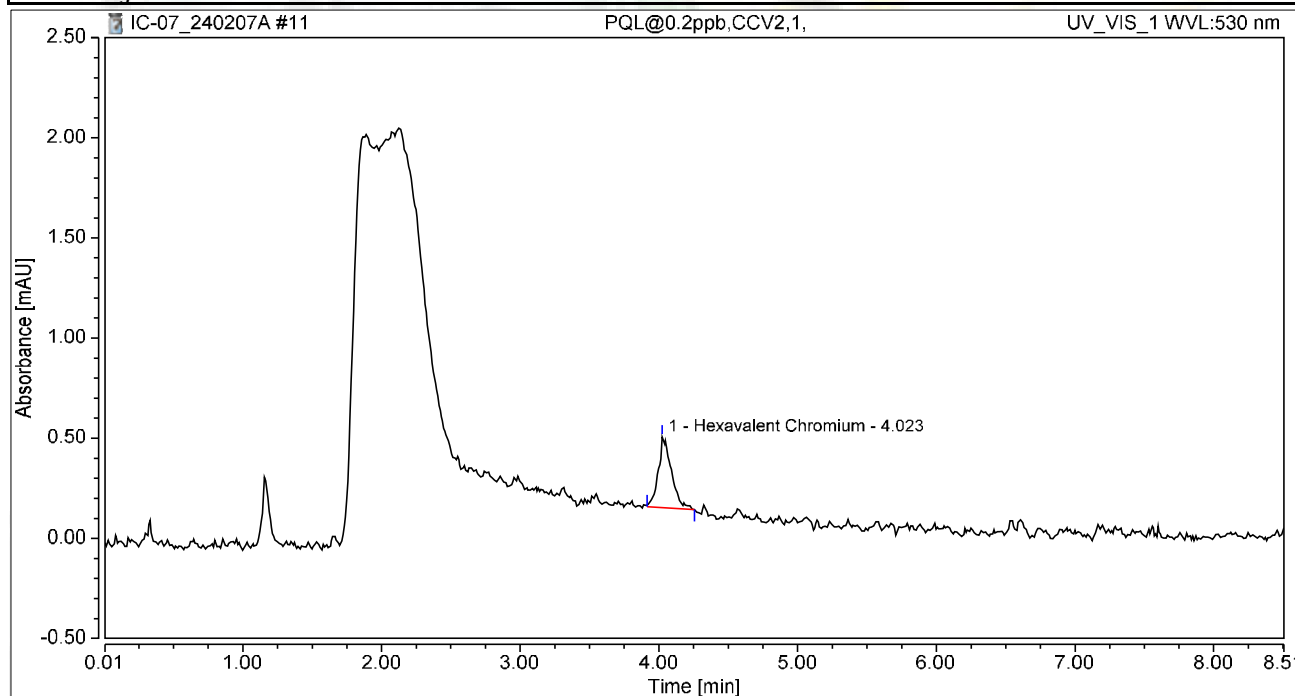
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:22	Sample Weight:	1.0000

Chromatogram



Integration Results

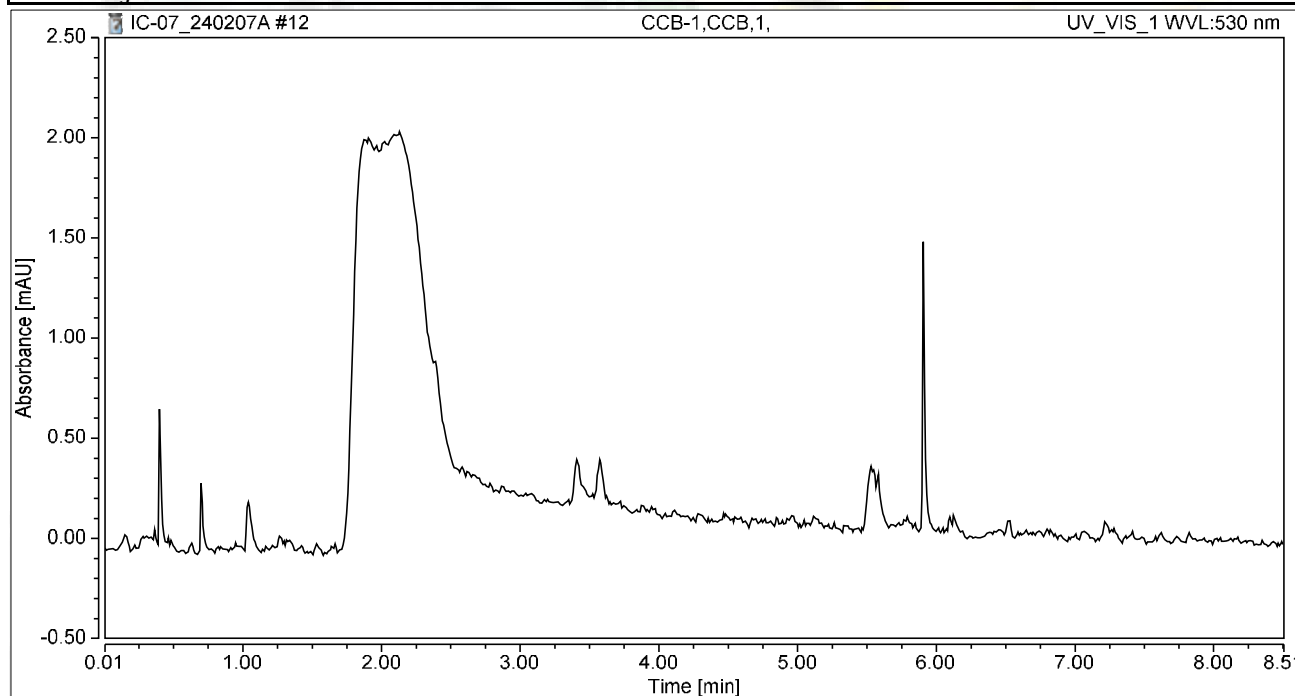
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.039	0.352	100.00	100.00	0.1796
Total:			0.039	0.352	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:31	Sample Weight:	1.0000

Chromatogram



Integration Results

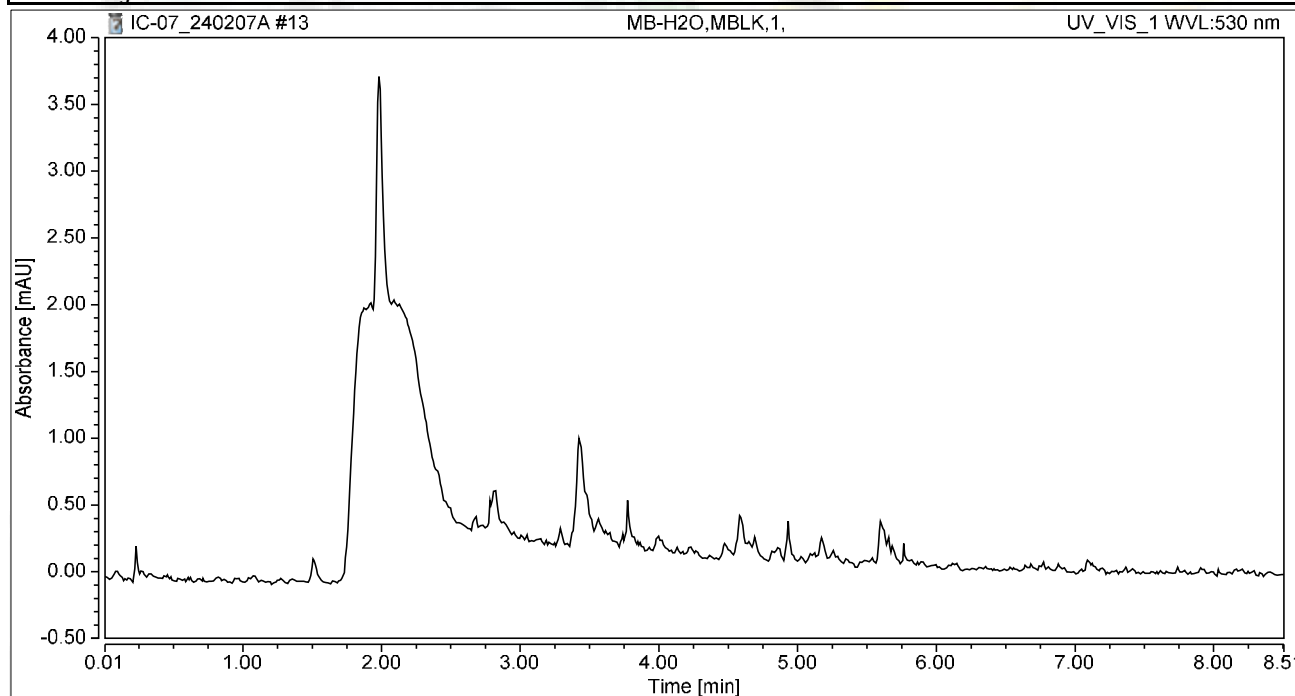
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:40	Sample Weight:	1.0000

Chromatogram



Integration Results

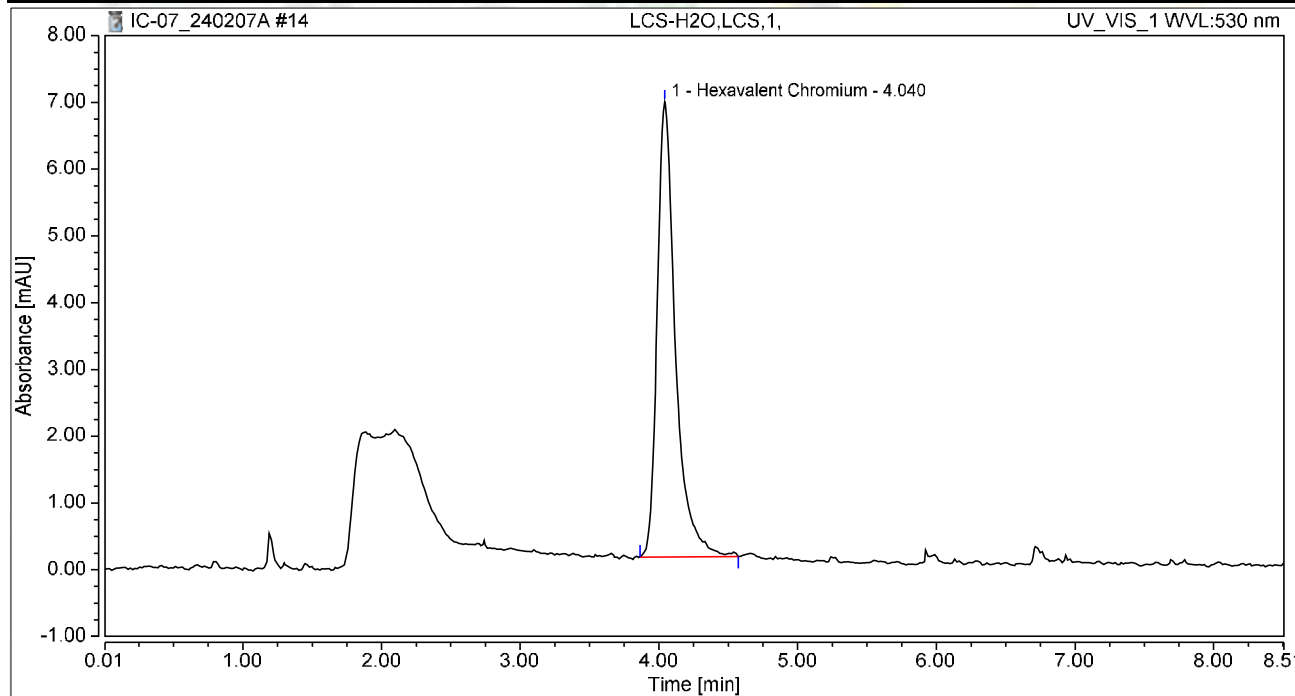
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

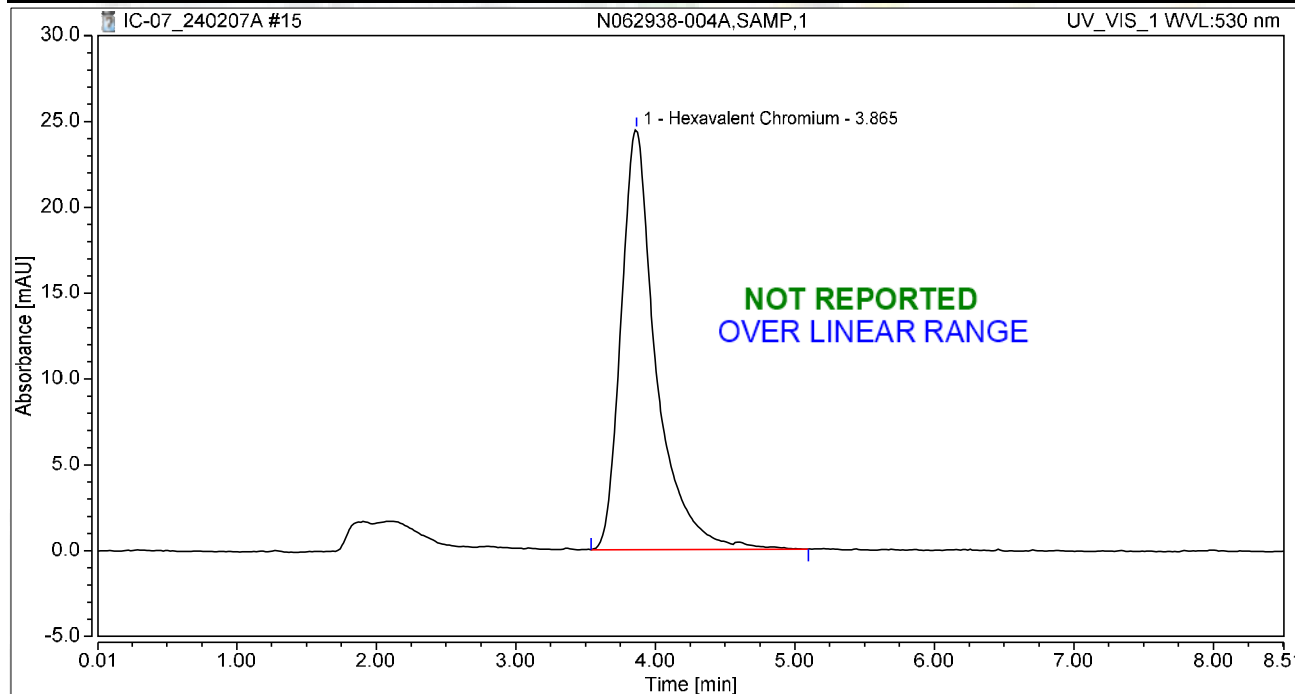
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.038	6.816	100.00	100.00	4.8272
Total:			1.038	6.816	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

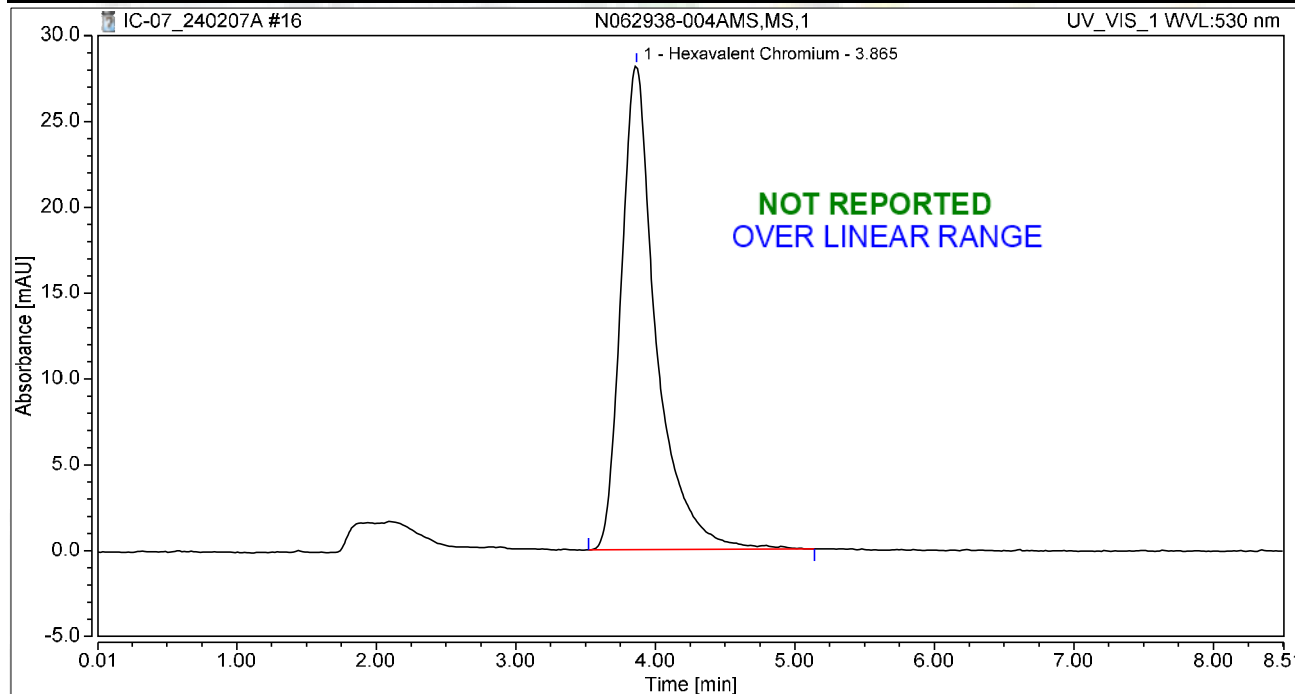
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	7.135	24.493	100.00	100.00	33.1689
Total:			7.135	24.493	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:19	Sample Weight:	1.0000

Chromatogram



Integration Results

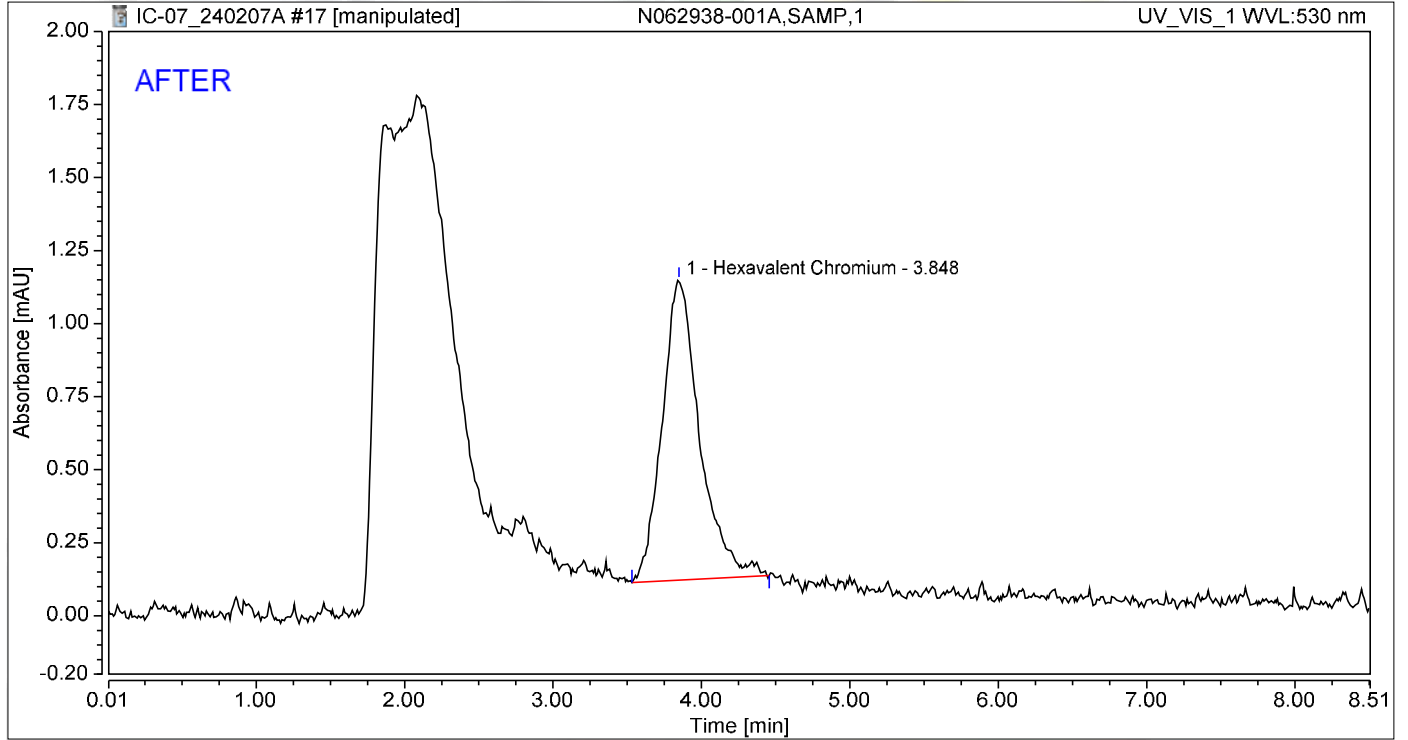
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	8.192	28.232	100.00	100.00	38.0848
Total:			8.192	28.232	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.301	1.027	100.00	100.00	1.3996
Total:			0.301	1.027	100.00	100.00	

Reviewed by:

jrb

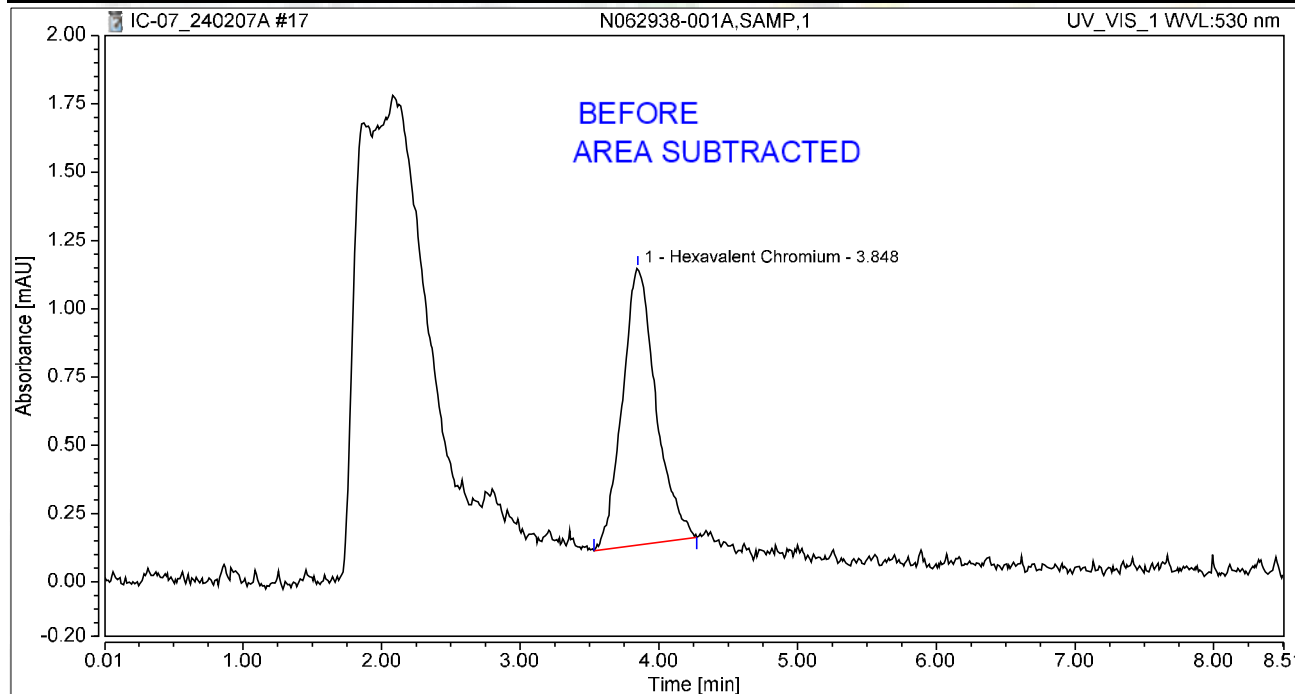
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:28	Sample Weight:	1.0000

Chromatogram



Integration Results

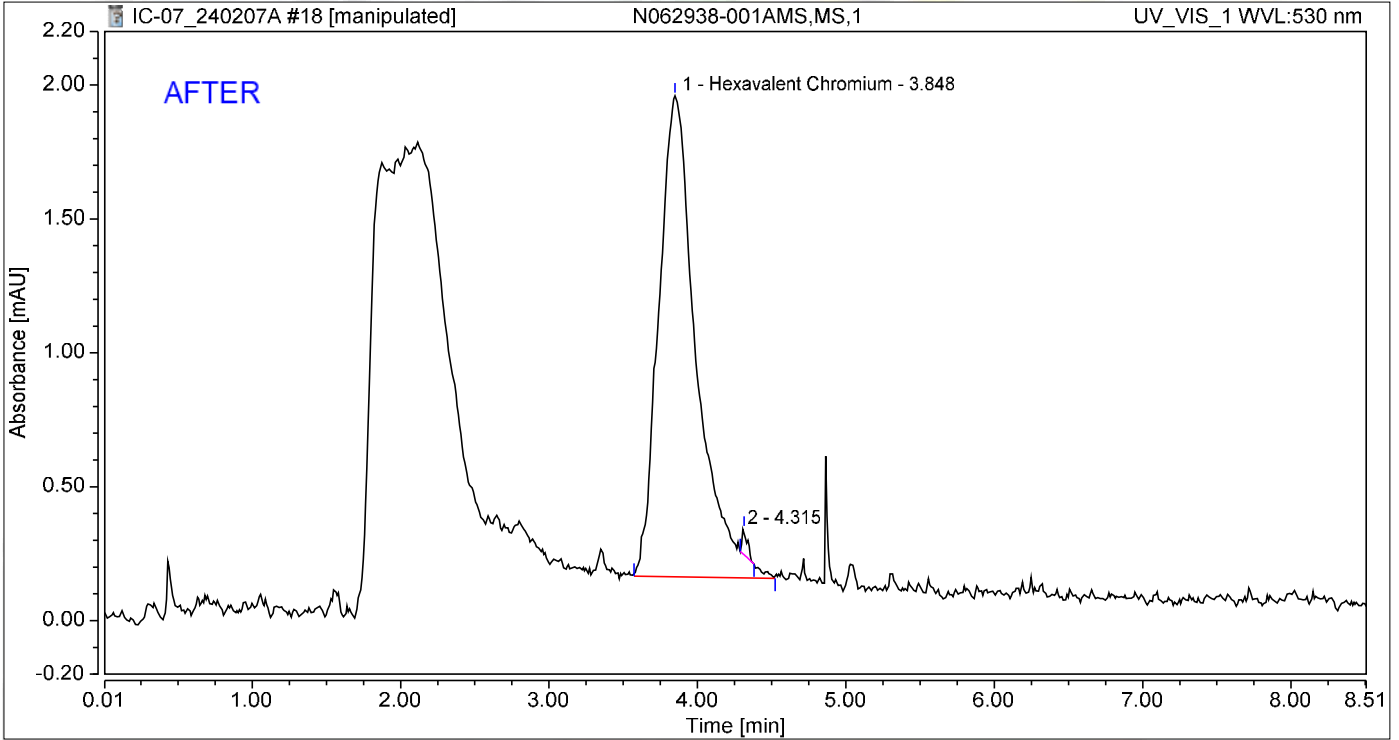
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.285	1.015	100.00	100.00	1.3233
Total:			0.285	1.015	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.527	1.796	99.26	94.93	2.4488
2		4.315	0.004	0.096	0.74	5.07	n.a.
Total:			0.531	1.891	100.00	100.00	

Reviewed by:

jrb

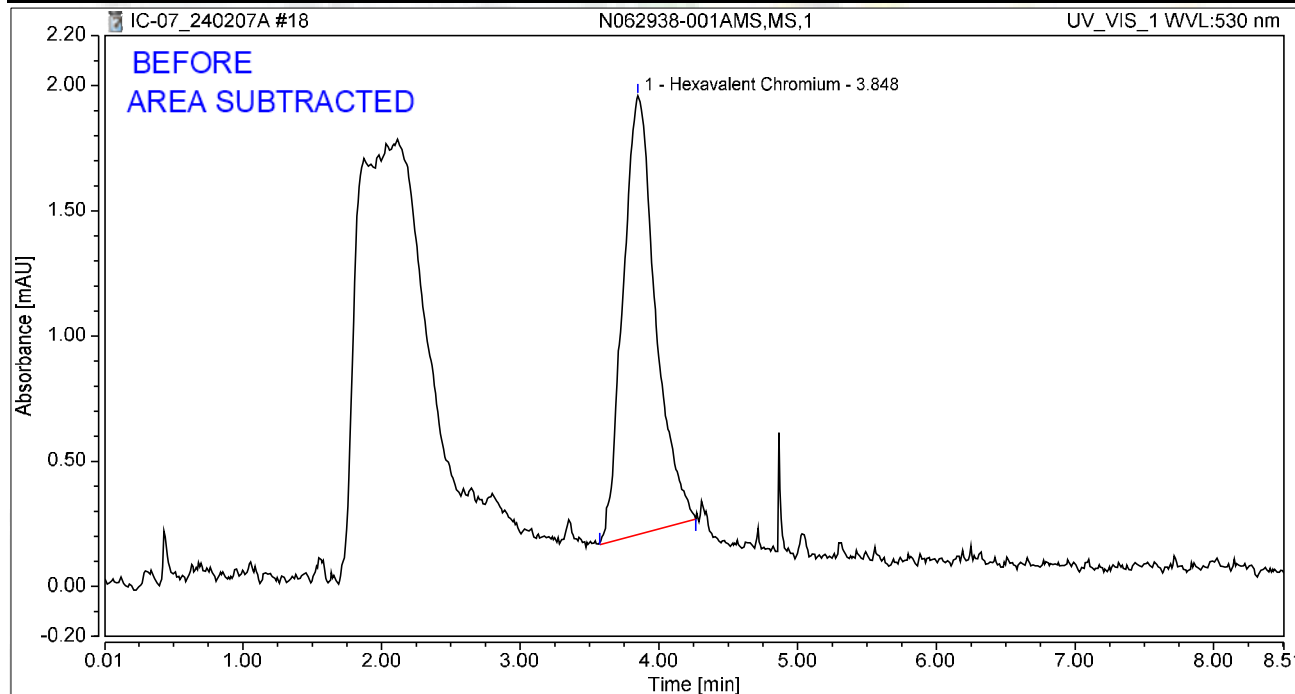
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

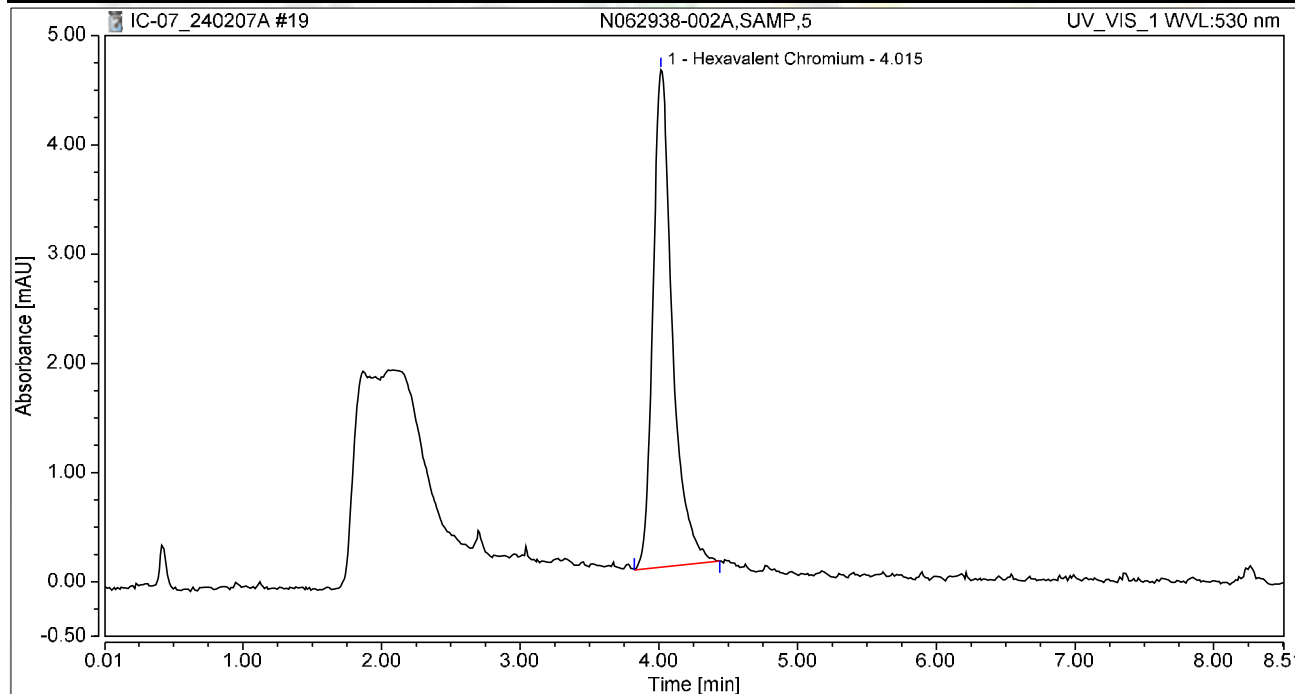
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.476	1.752	100.00	100.00	2.2121
Total:			0.476	1.752	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:47	Sample Weight:	1.0000

Chromatogram



Integration Results

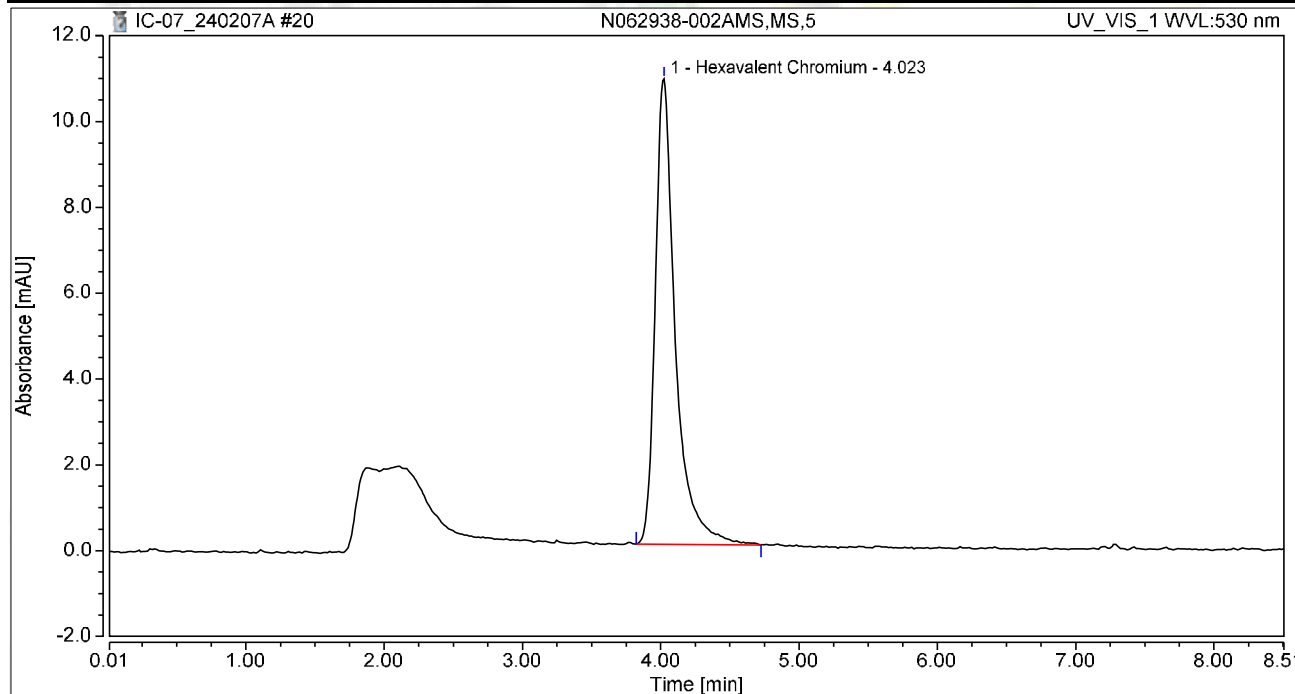
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.739	4.553	100.00	100.00	3.4345
Total:			0.739	4.553	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-002AMS,MS,5	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 11:56	Sample Weight:	1.0000

Chromatogram



Integration Results

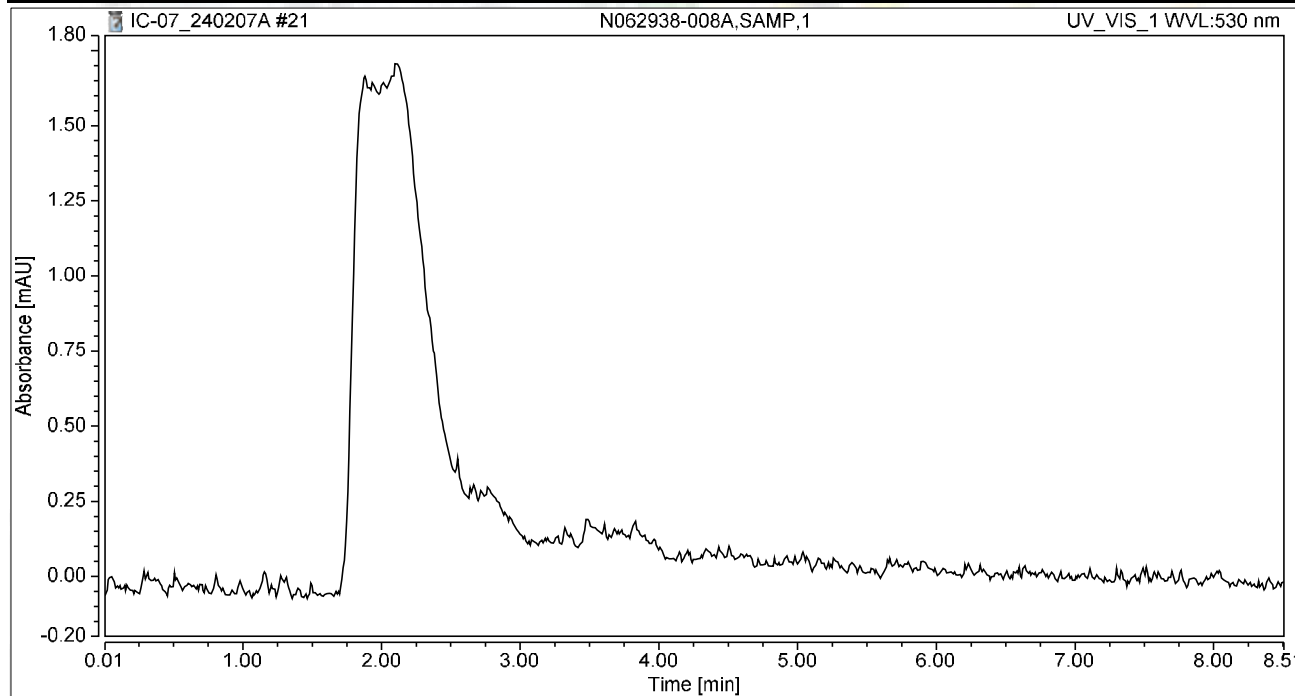
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.823	10.847	100.00	100.00	8.4764
Total:			1.823	10.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:06	Sample Weight:	1.0000

Chromatogram



Integration Results

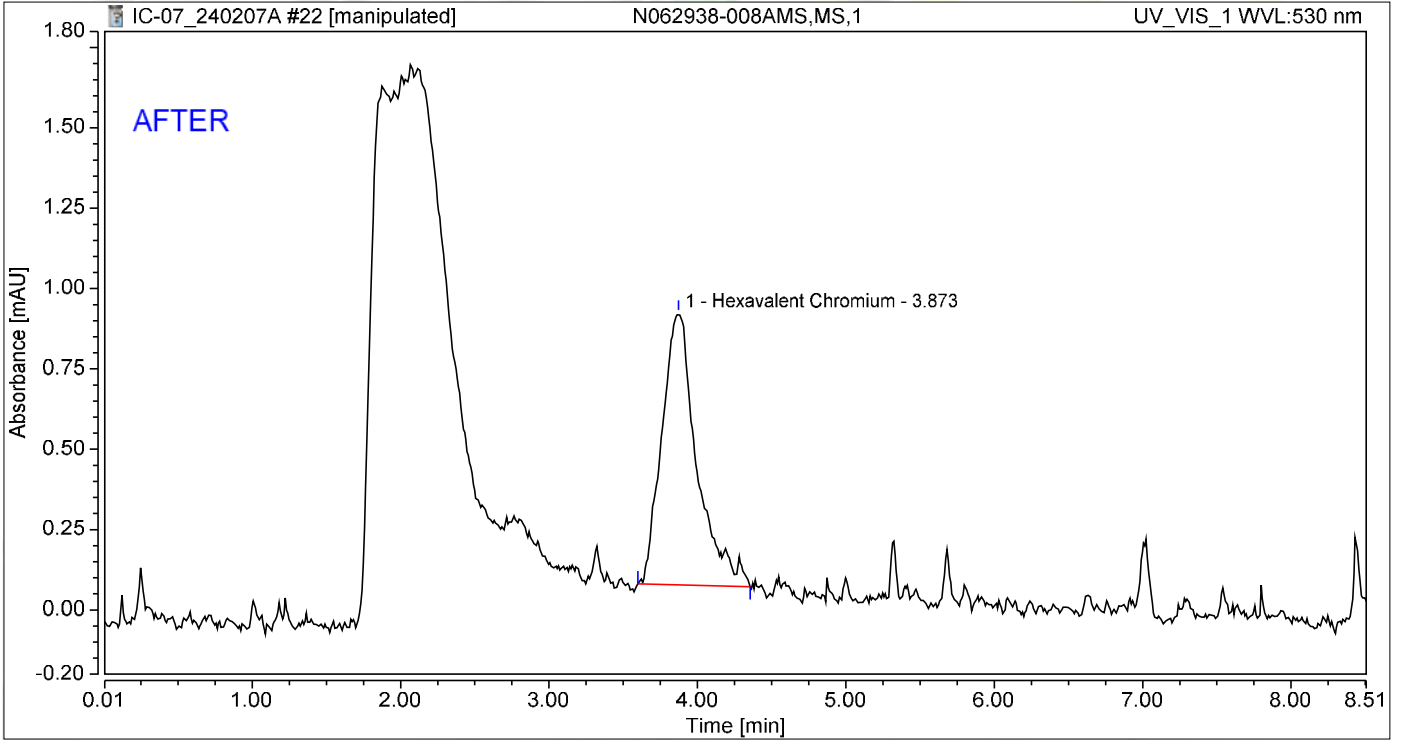
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.230	0.846	100.00	100.00	1.0702
Total:			0.230	0.846	100.00	100.00	

Reviewed by:

jrb

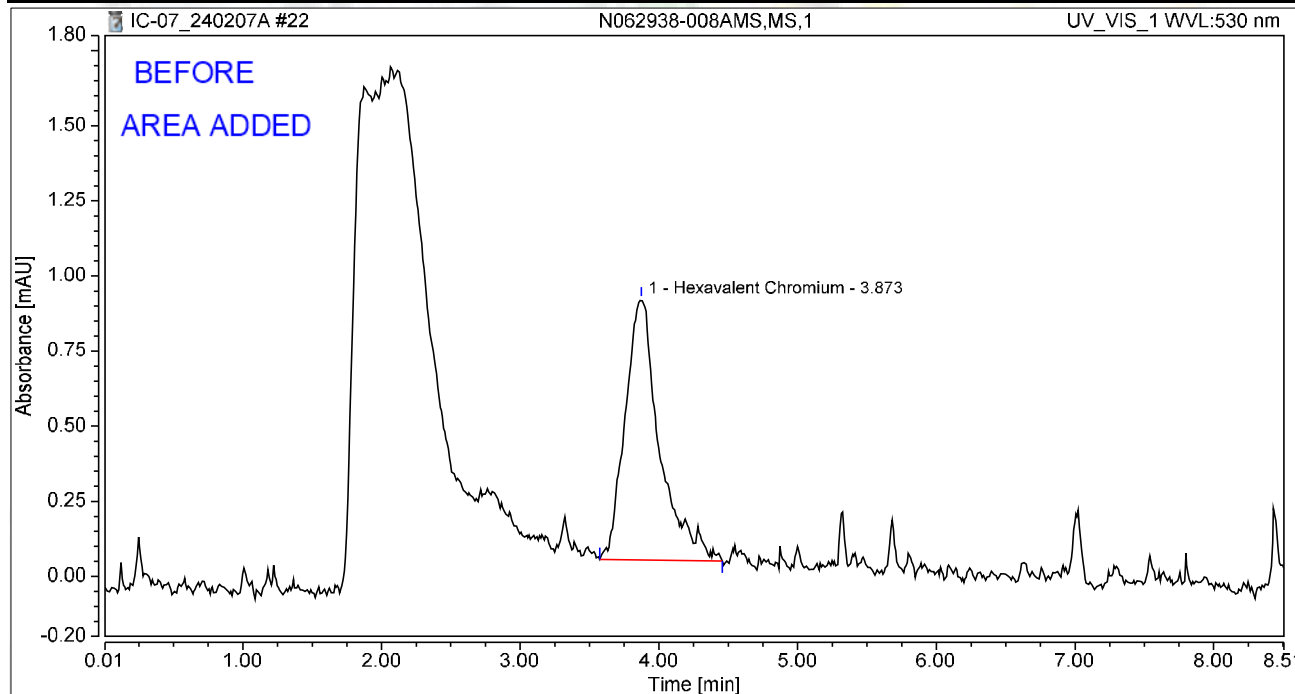
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:15	Sample Weight:	1.0000

Chromatogram



Integration Results

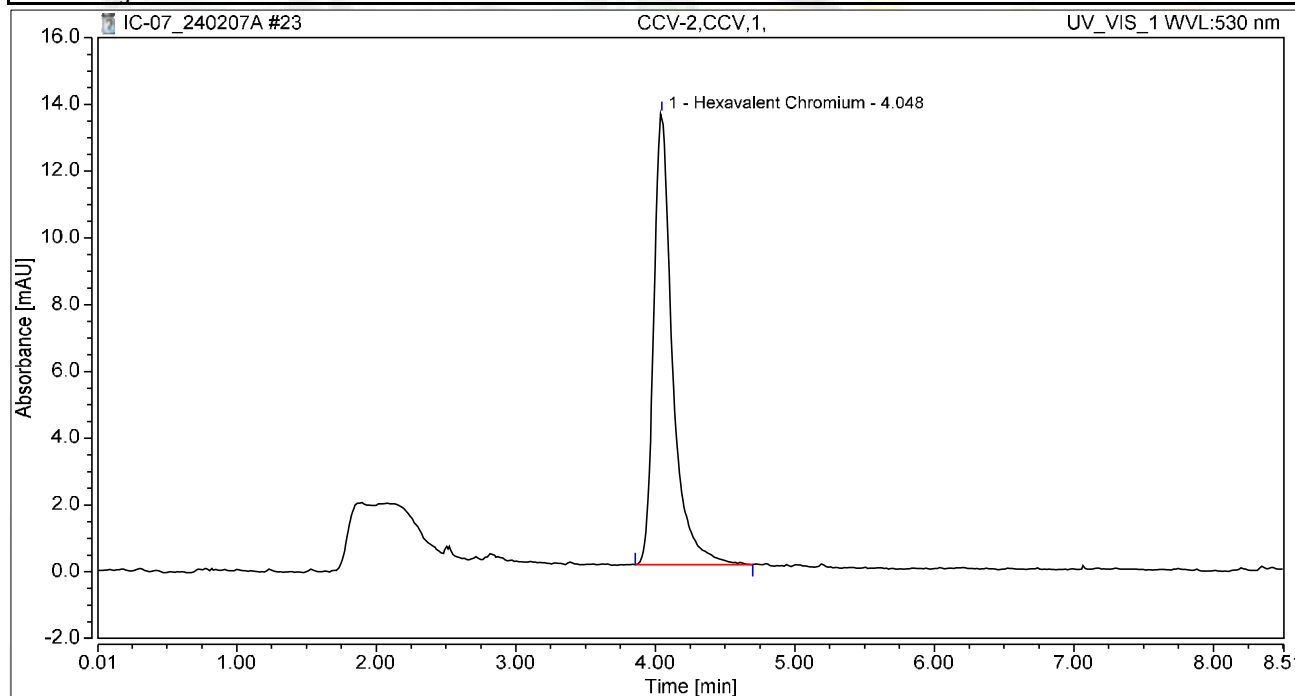
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.250	0.869	100.00	100.00	1.1613
Total:			0.250	0.869	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:25	Sample Weight:	1.0000

Chromatogram



Integration Results

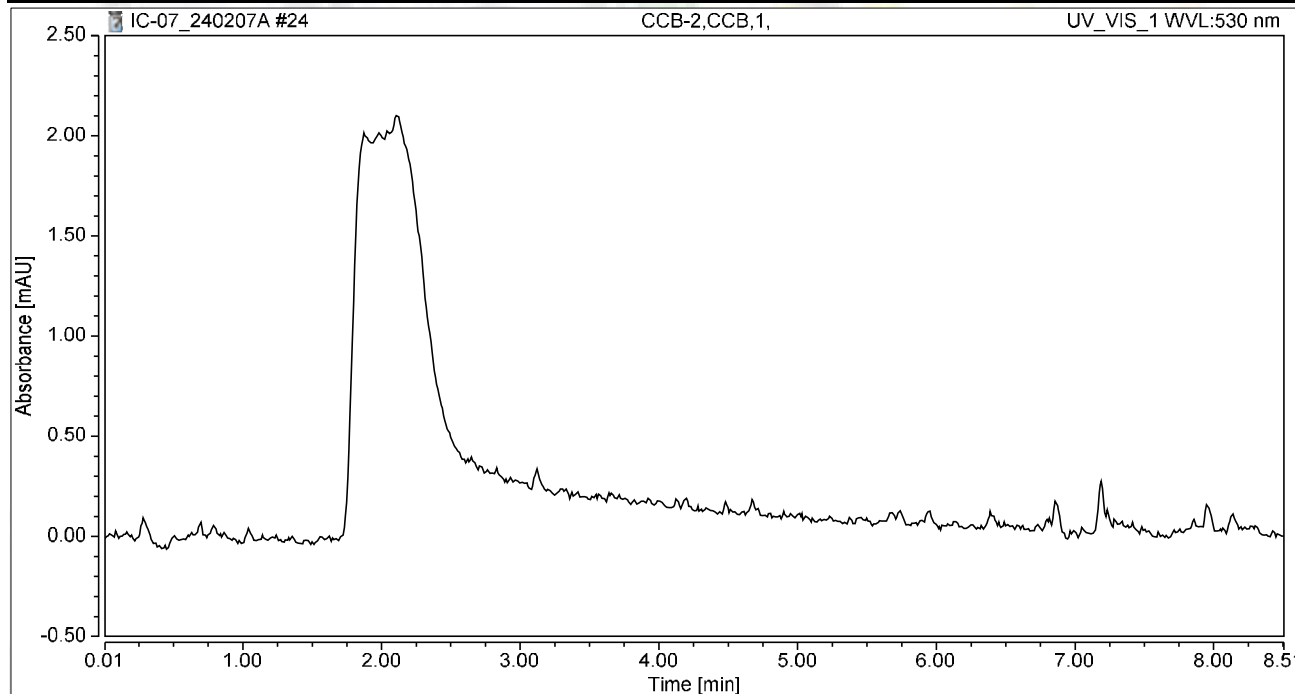
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.110	13.511	100.00	100.00	9.8108
Total:			2.110	13.511	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:34	Sample Weight:	1.0000

Chromatogram



Integration Results

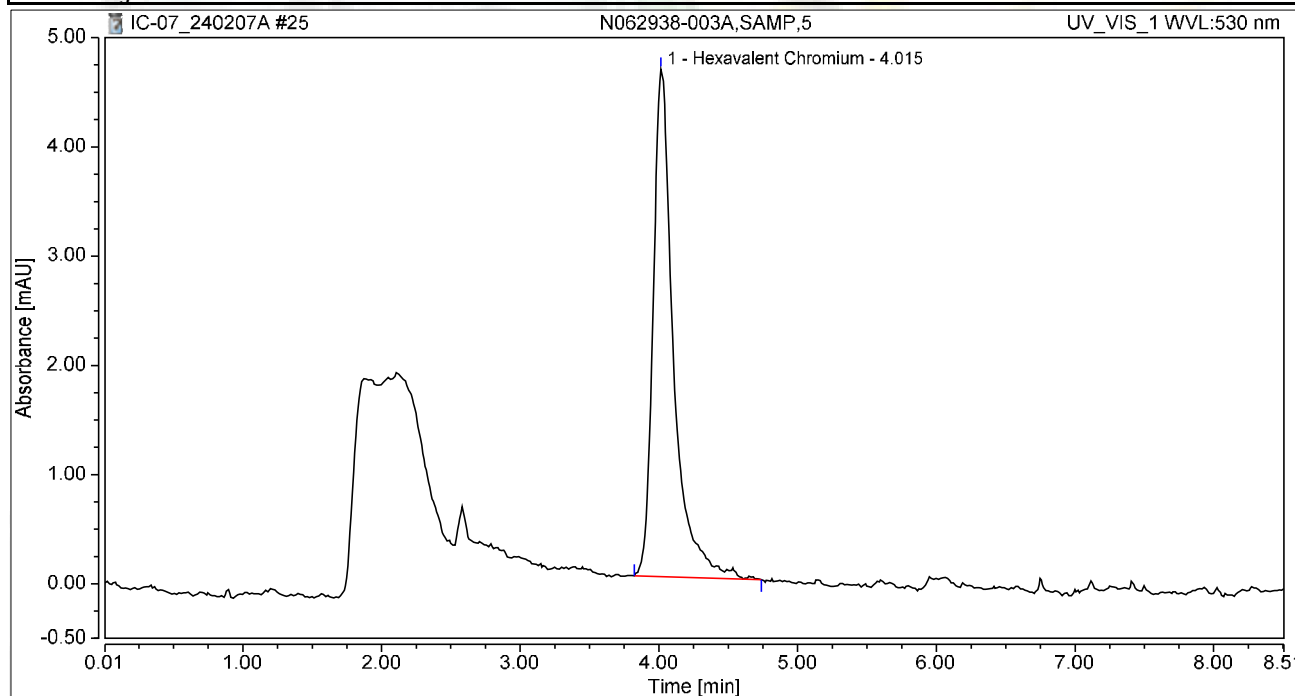
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

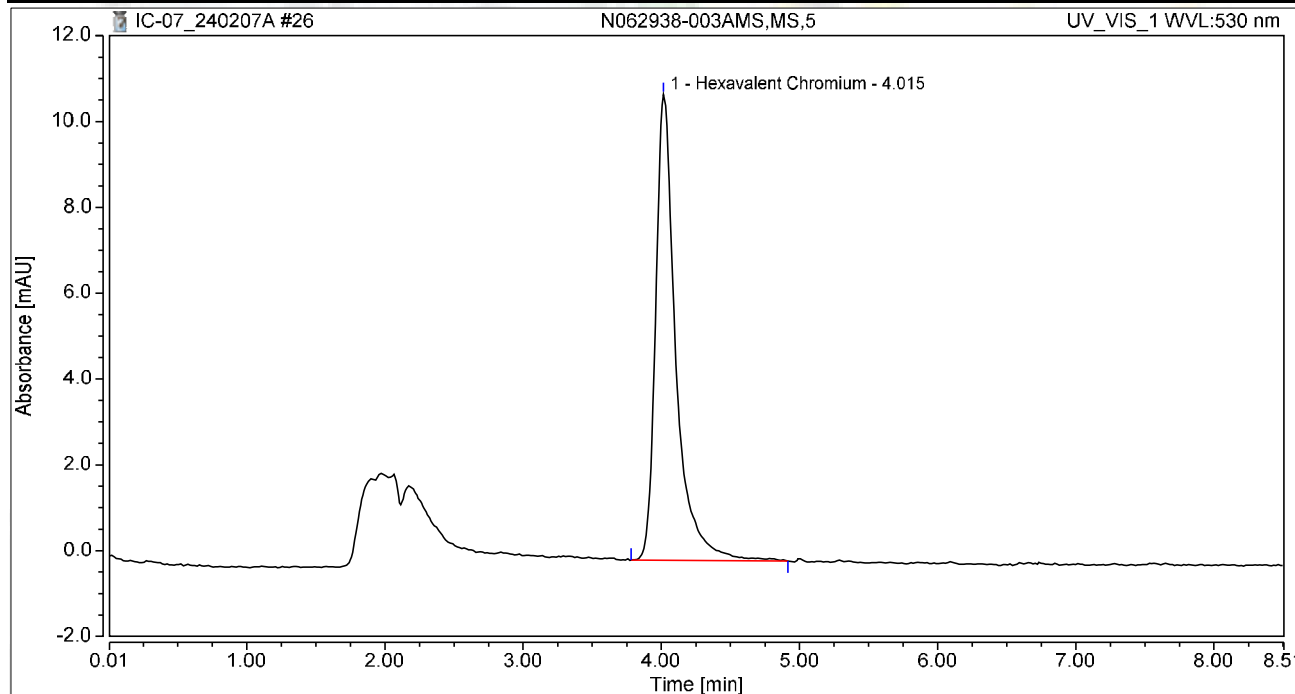
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.792	4.644	100.00	100.00	3.6811
Total:			0.792	4.644	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 12:53	Sample Weight:	1.0000

Chromatogram



Integration Results

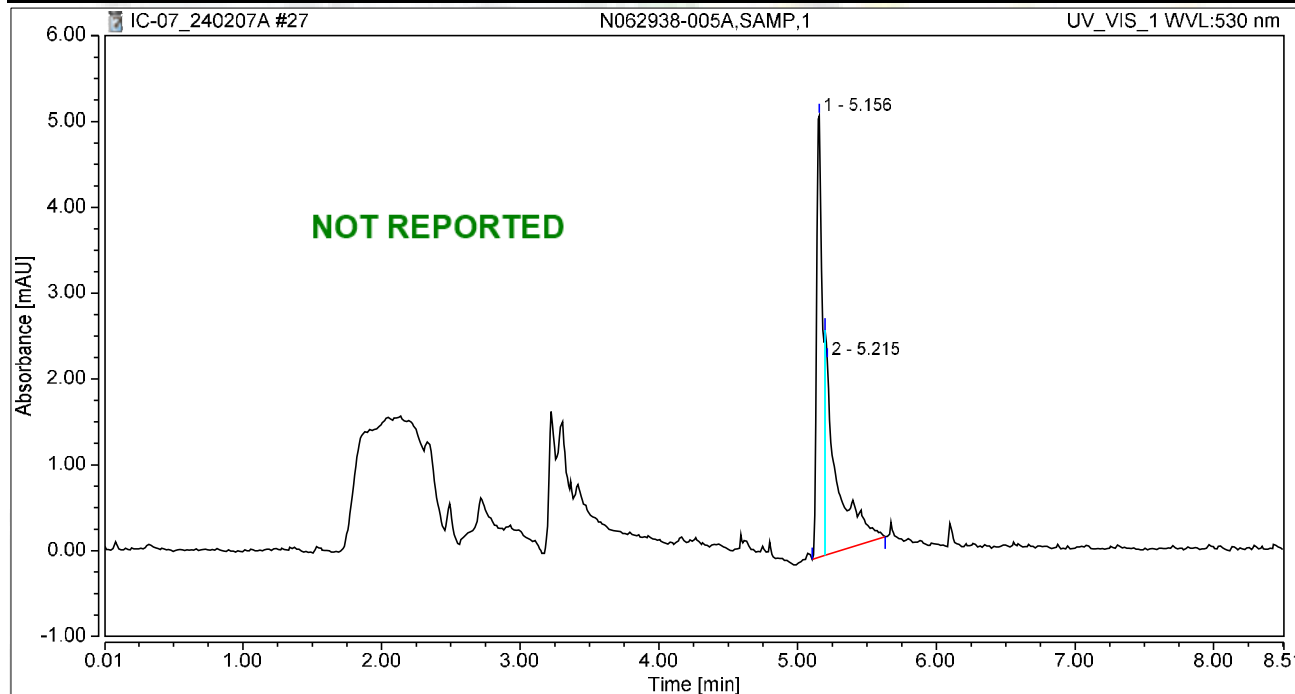
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.842	10.847	100.00	100.00	8.5615
Total:			1.842	10.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:03	Sample Weight:	1.0000

Chromatogram



Integration Results

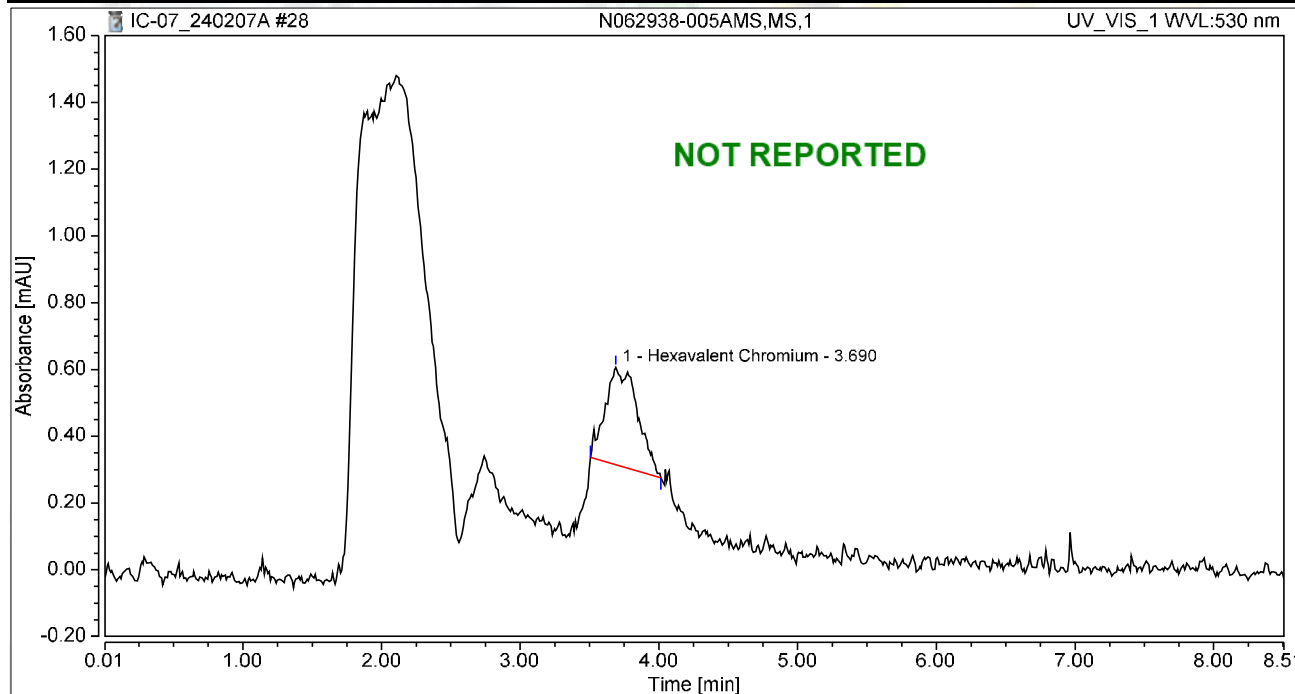
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		5.156	0.253	5.141	51.09	69.42	n.a.
2		5.215	0.242	2.264	48.91	30.58	n.a.
Total:			0.495	7.405	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:12	Sample Weight:	1.0000

Chromatogram



Integration Results

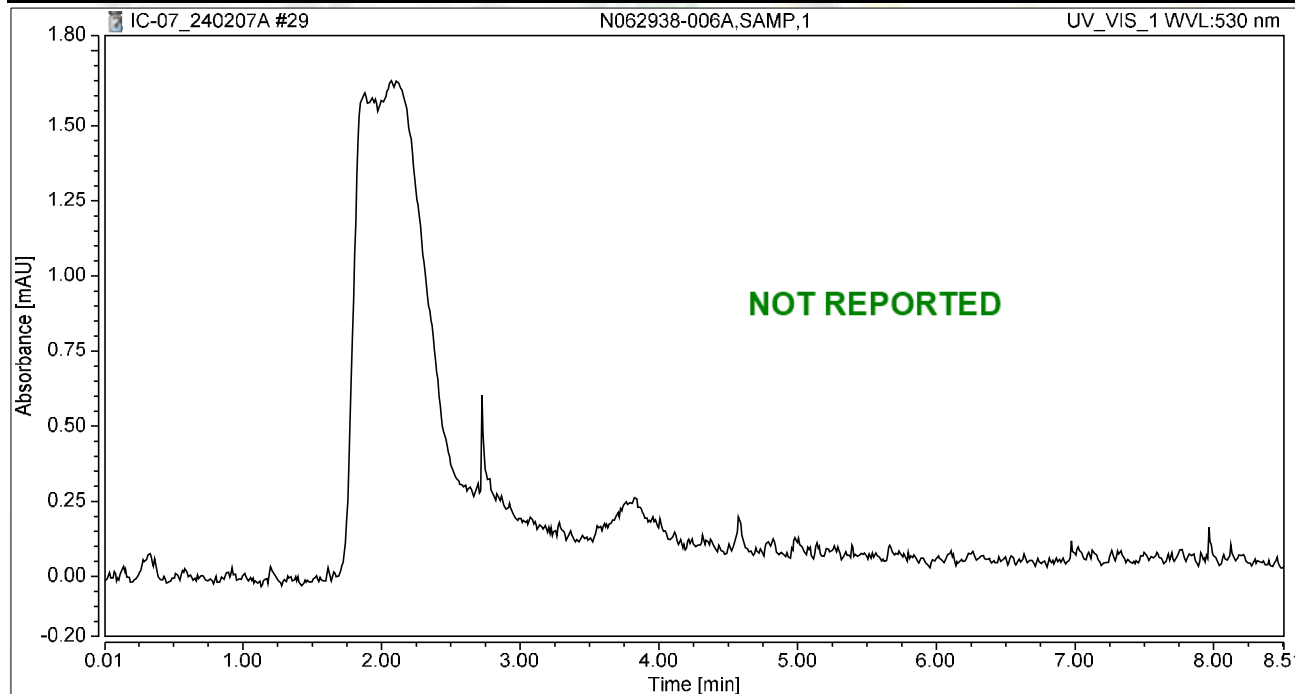
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.690	0.080	0.292	100.00	100.00	0.3696
Total:			0.080	0.292	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:22	Sample Weight:	1.0000

Chromatogram



Integration Results

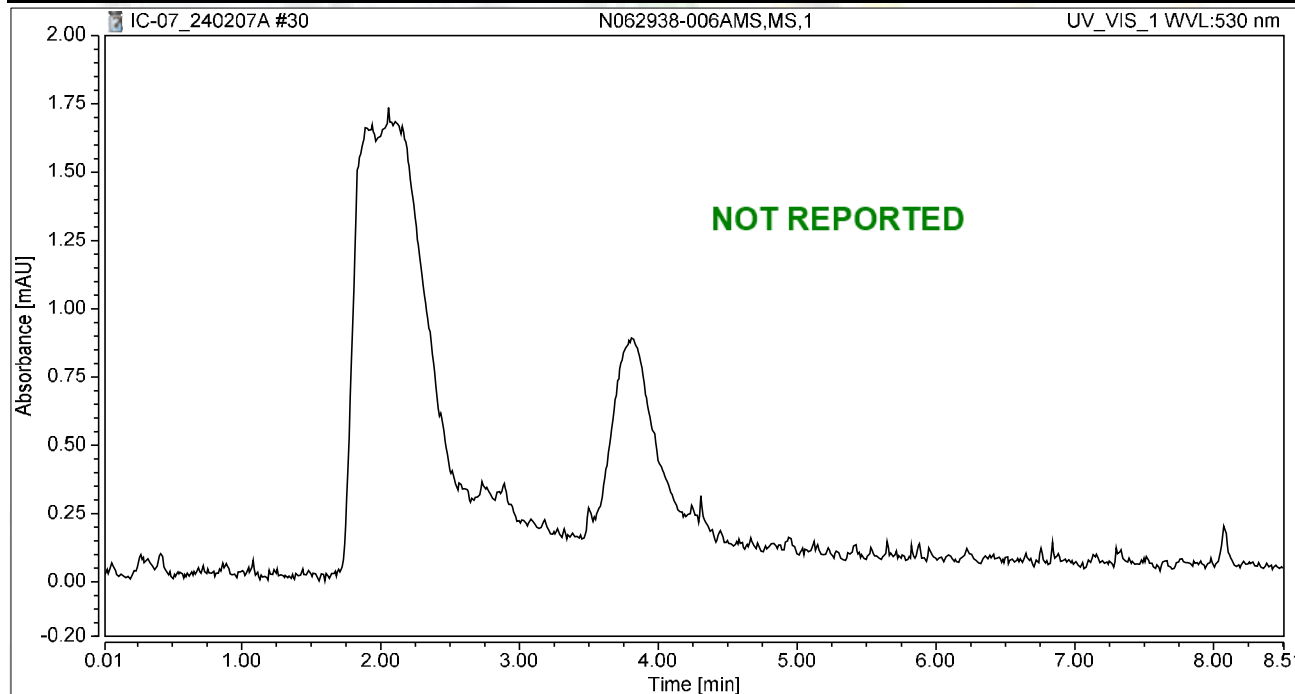
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:31	Sample Weight:	1.0000

Chromatogram



Integration Results

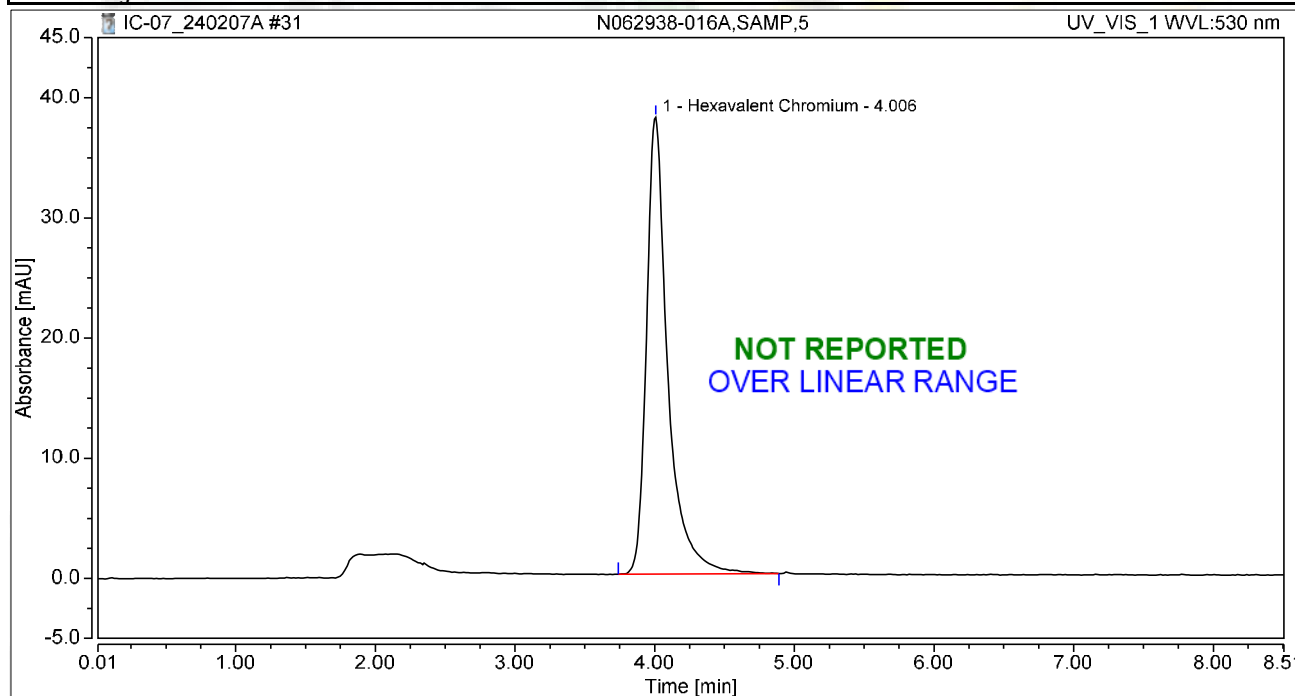
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016A,SAMP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:46	Sample Weight:	1.0000

Chromatogram



Integration Results

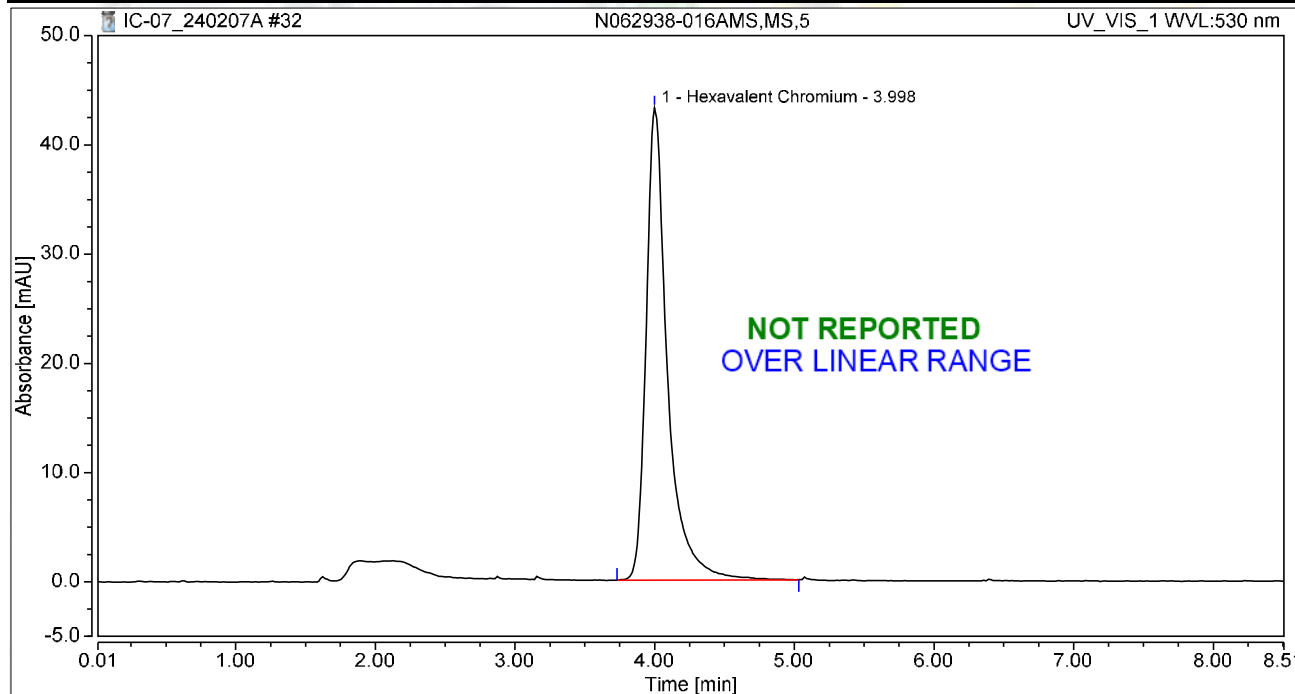
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	6.741	38.033	100.00	100.00	31.3374
Total:			6.741	38.033	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016AMS,MS,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

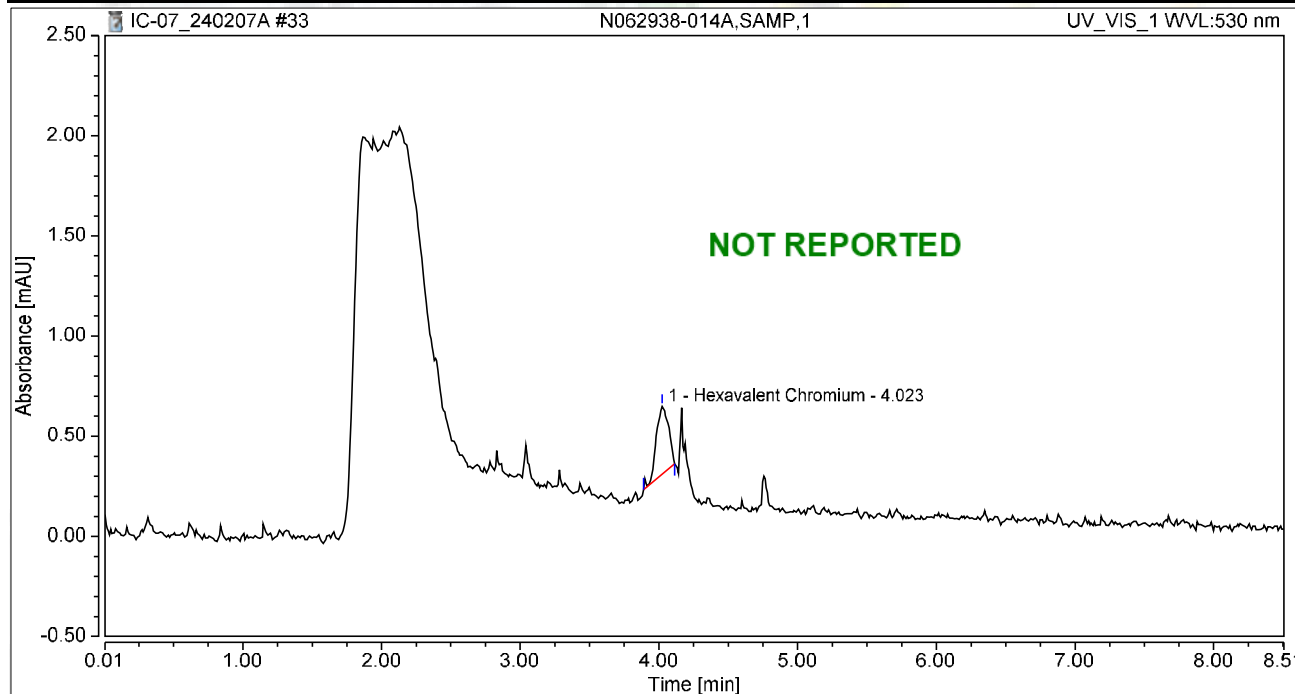
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	7.688	43.240	100.00	100.00	35.7413
Total:			7.688	43.240	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

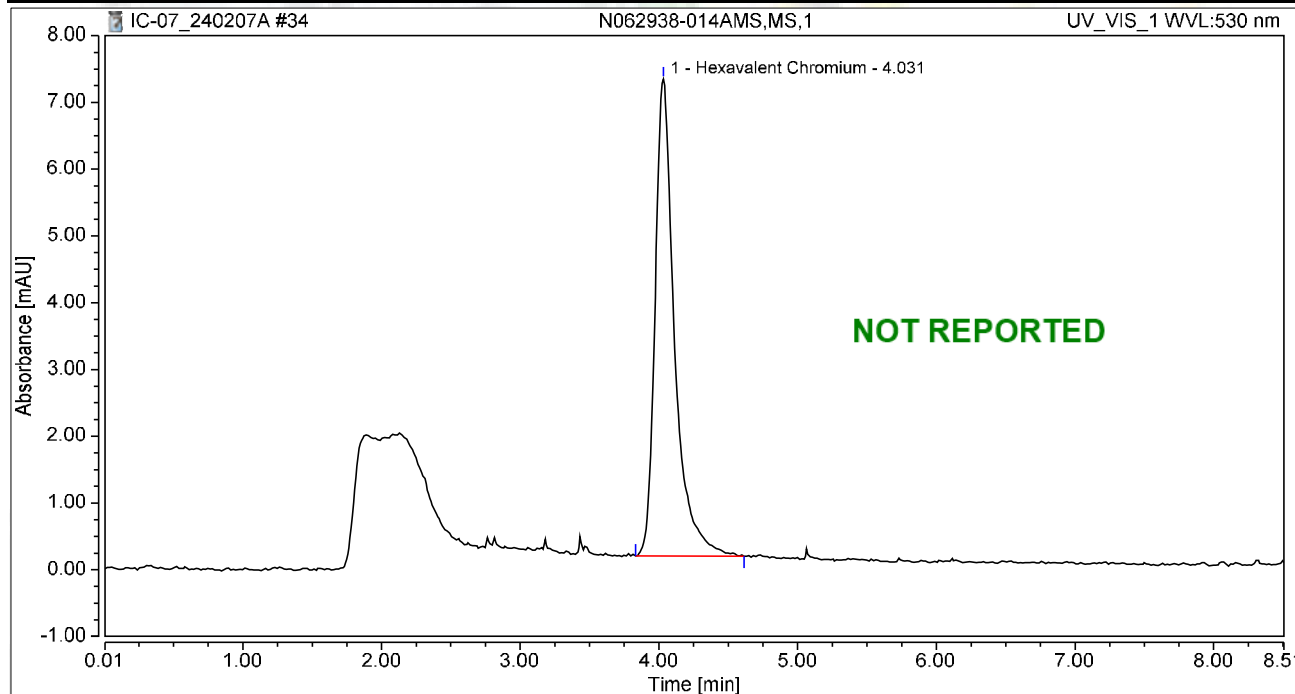
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.035	0.340	100.00	100.00	0.1620
Total:			0.035	0.340	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:16	Sample Weight:	1.0000

Chromatogram



Integration Results

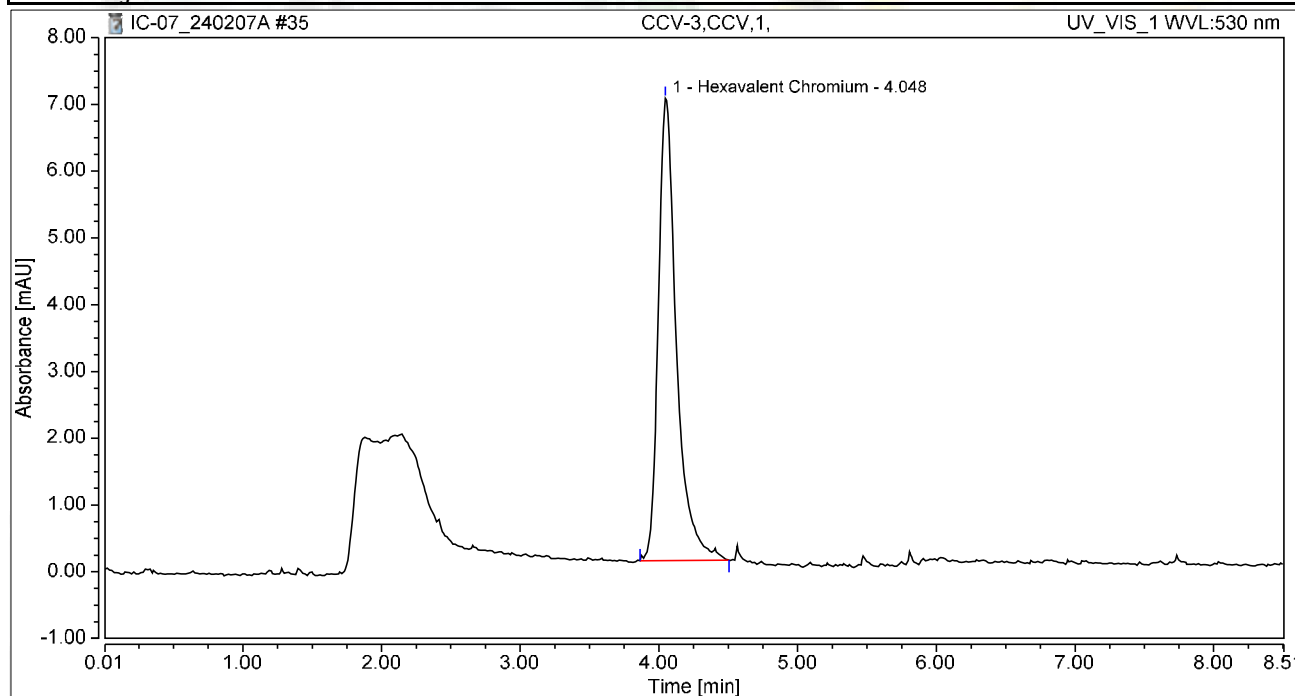
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.158	7.145	100.00	100.00	5.3835
Total:			1.158	7.145	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:26	Sample Weight:	1.0000

Chromatogram



Integration Results

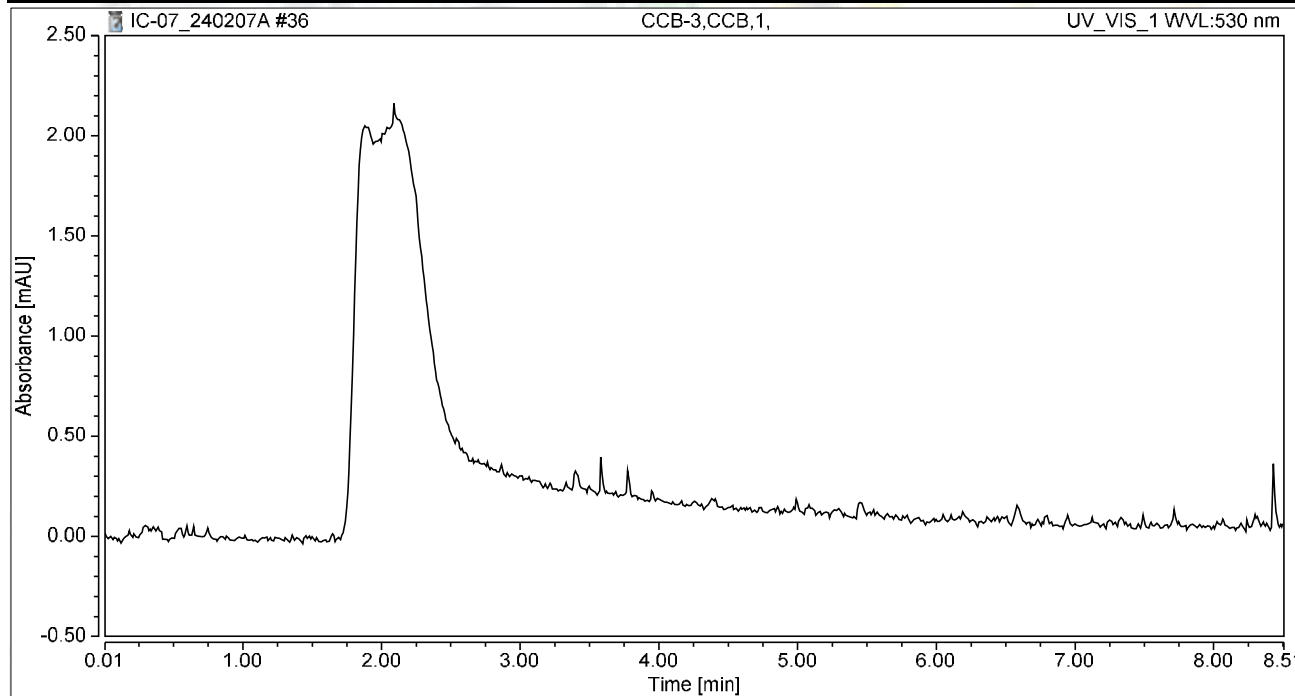
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.052	6.926	100.00	100.00	4.8928
Total:			1.052	6.926	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:35	Sample Weight:	1.0000

Chromatogram



Integration Results

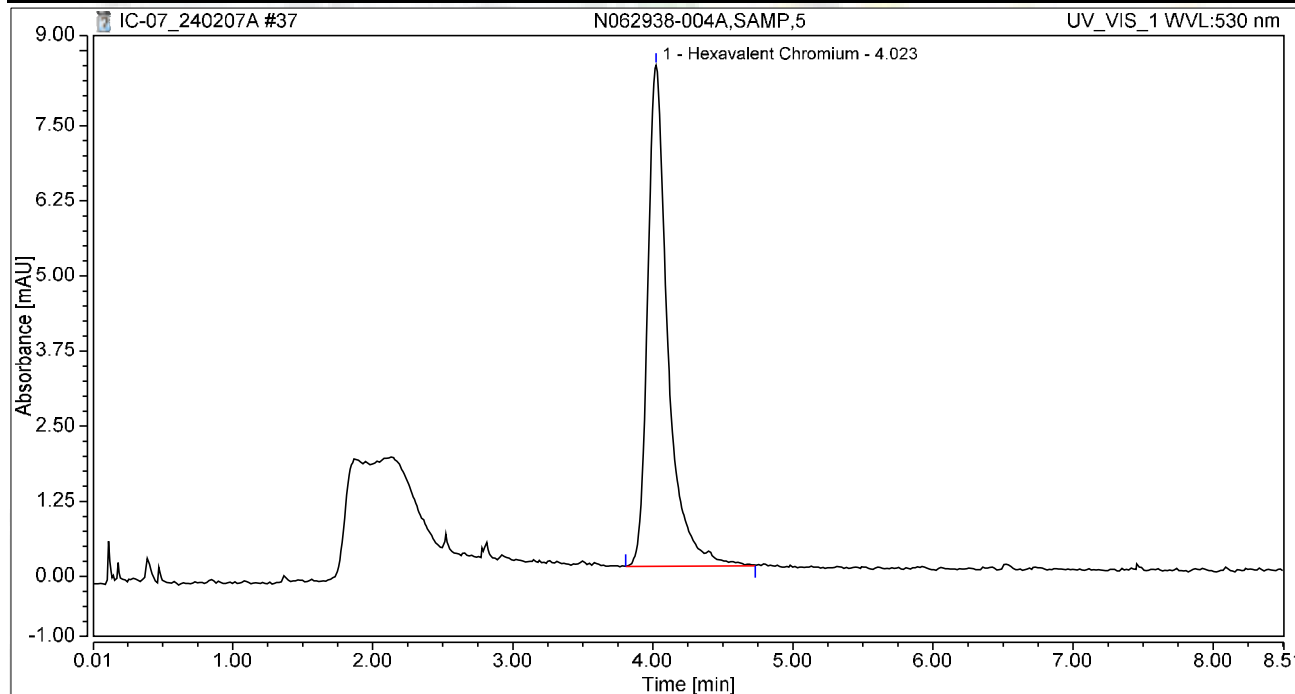
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 14:56	Sample Weight:	1.0000

Chromatogram



Integration Results

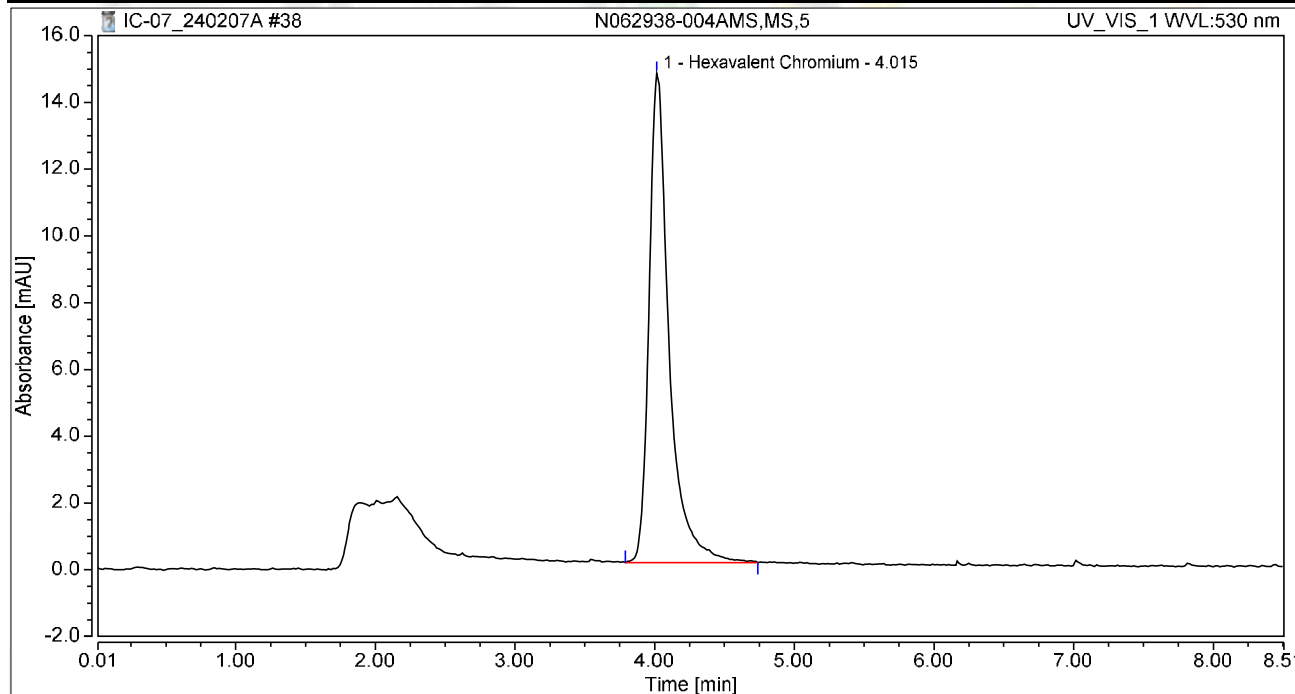
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.395	8.338	100.00	100.00	6.4831
Total:			1.395	8.338	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMS,MS,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:08	Sample Weight:	1.0000

Chromatogram



Integration Results

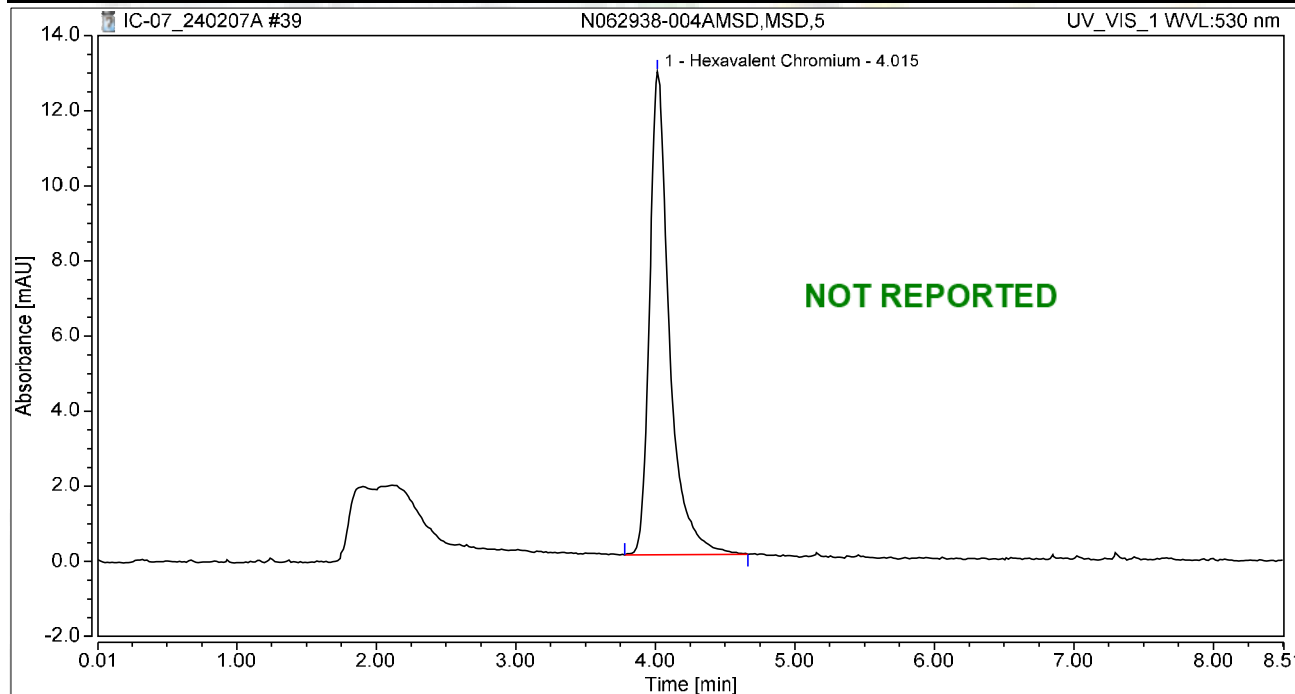
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.441	14.650	100.00	100.00	11.3458
Total:			2.441	14.650	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:18	Sample Weight:	1.0000

Chromatogram



Integration Results

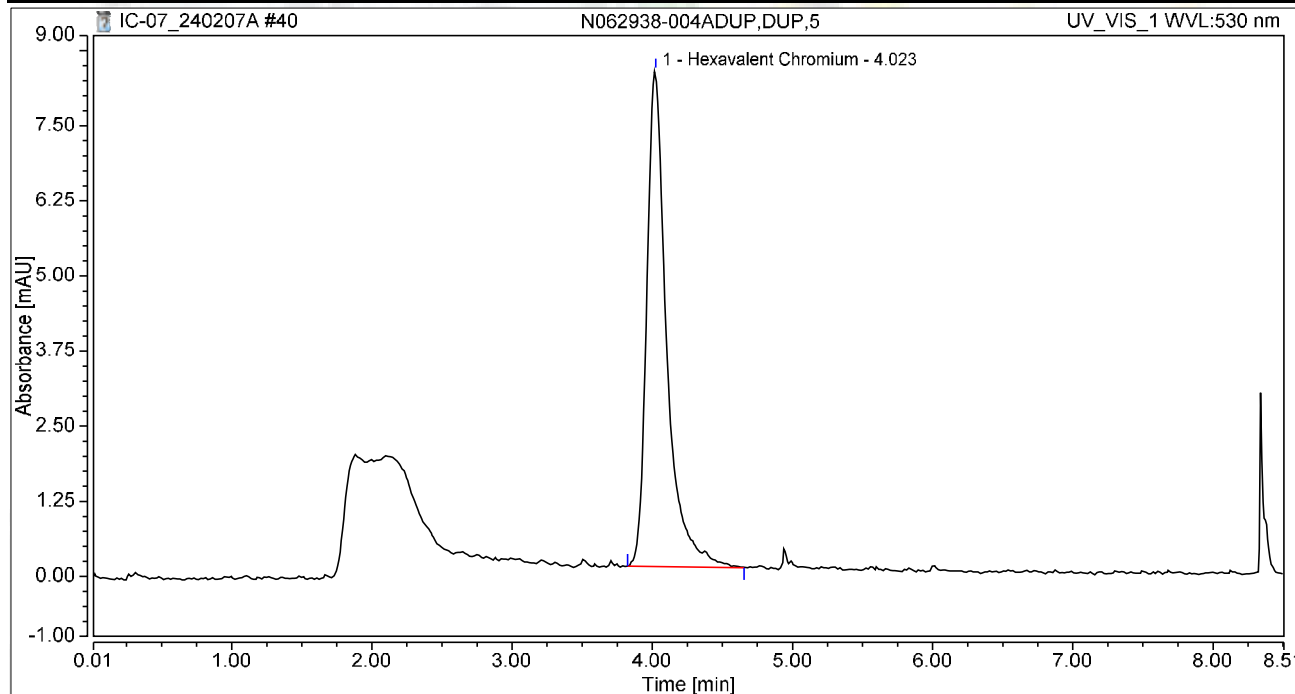
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.119	12.857	100.00	100.00	9.8506
Total:			2.119	12.857	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:27	Sample Weight:	1.0000

Chromatogram



Integration Results

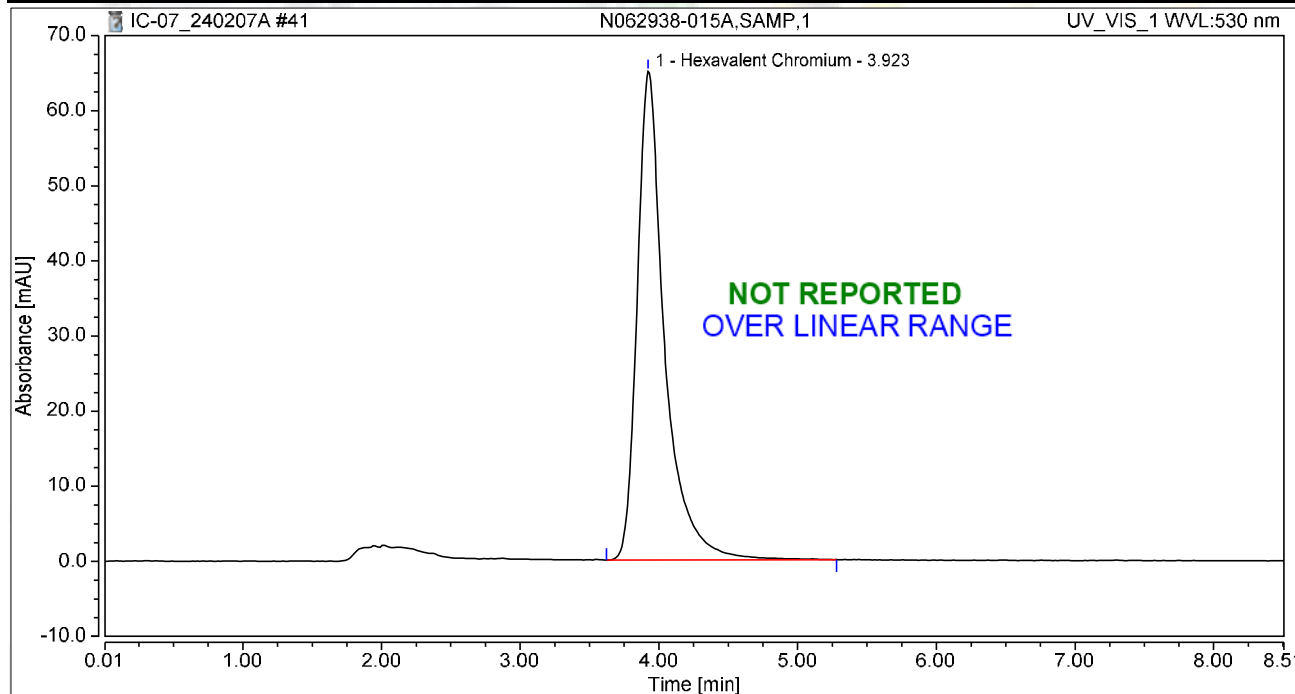
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	1.364	8.252	100.00	100.00	6.3413
Total:			1.364	8.252	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

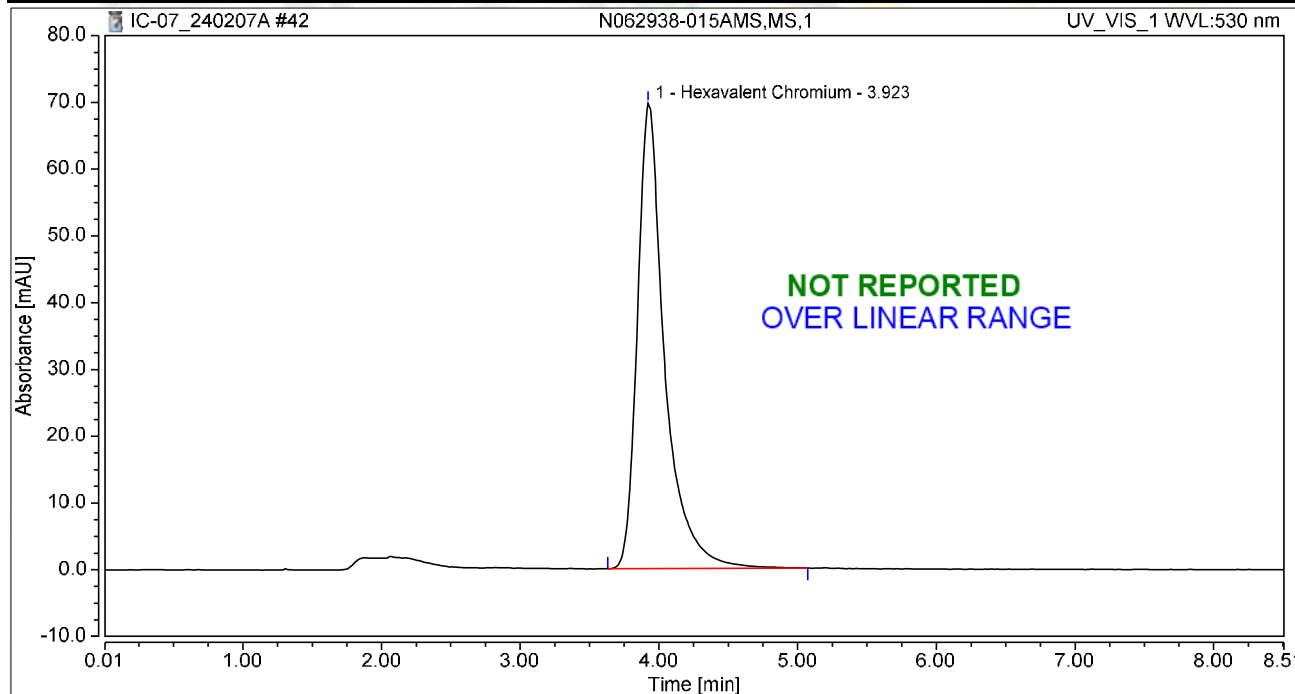
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	14.927	65.032	100.00	100.00	69.3929
Total:			14.927	65.032	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

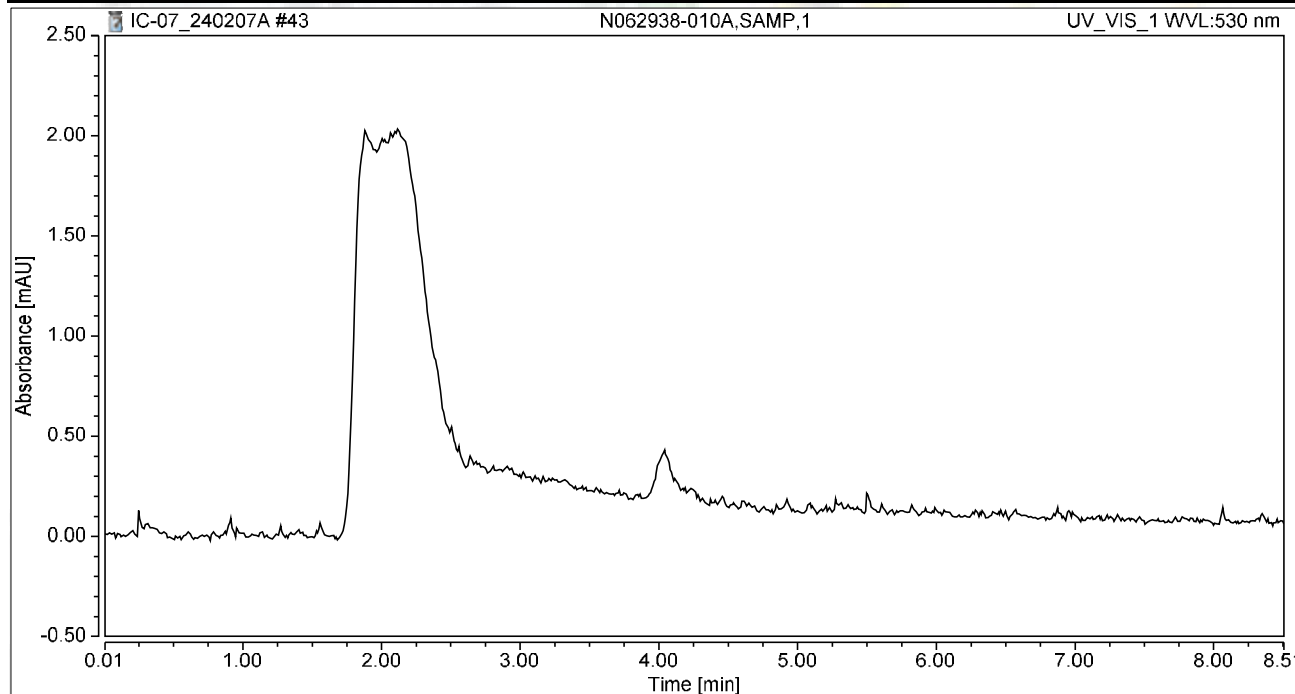
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.923	15.869	69.692	100.00	100.00	73.7718
Total:			15.869	69.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 15:55	Sample Weight:	1.0000

Chromatogram



Integration Results

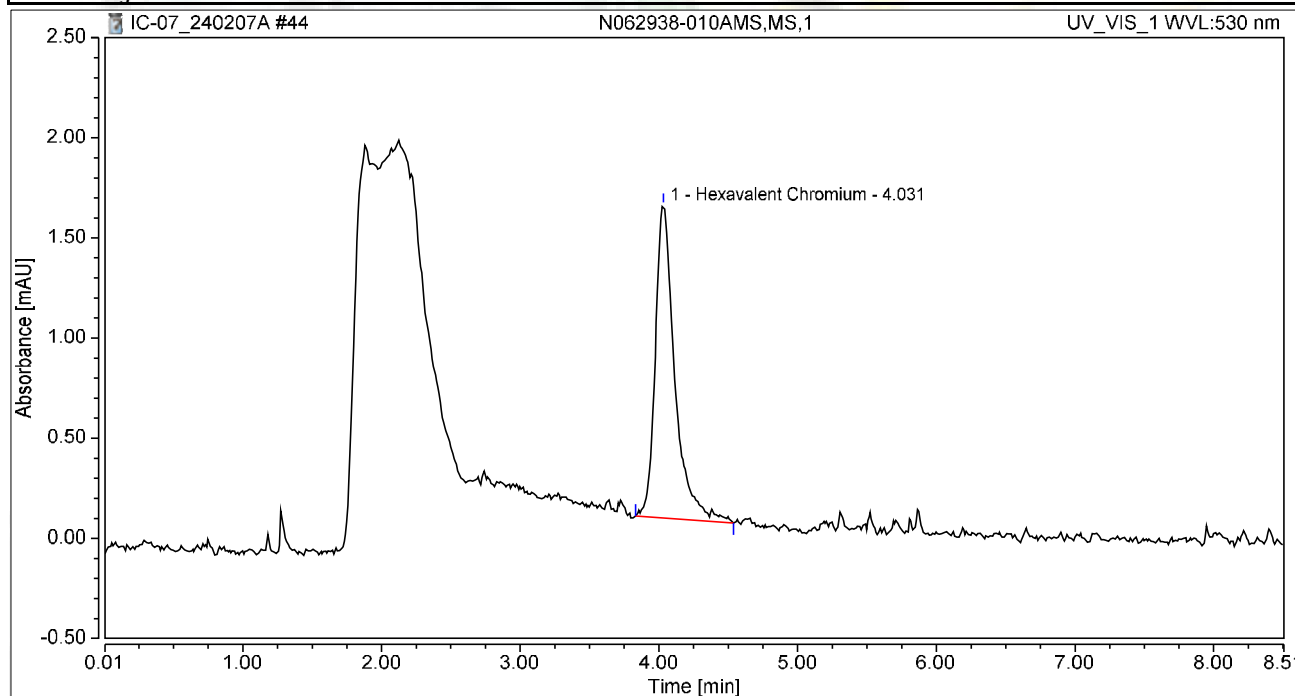
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

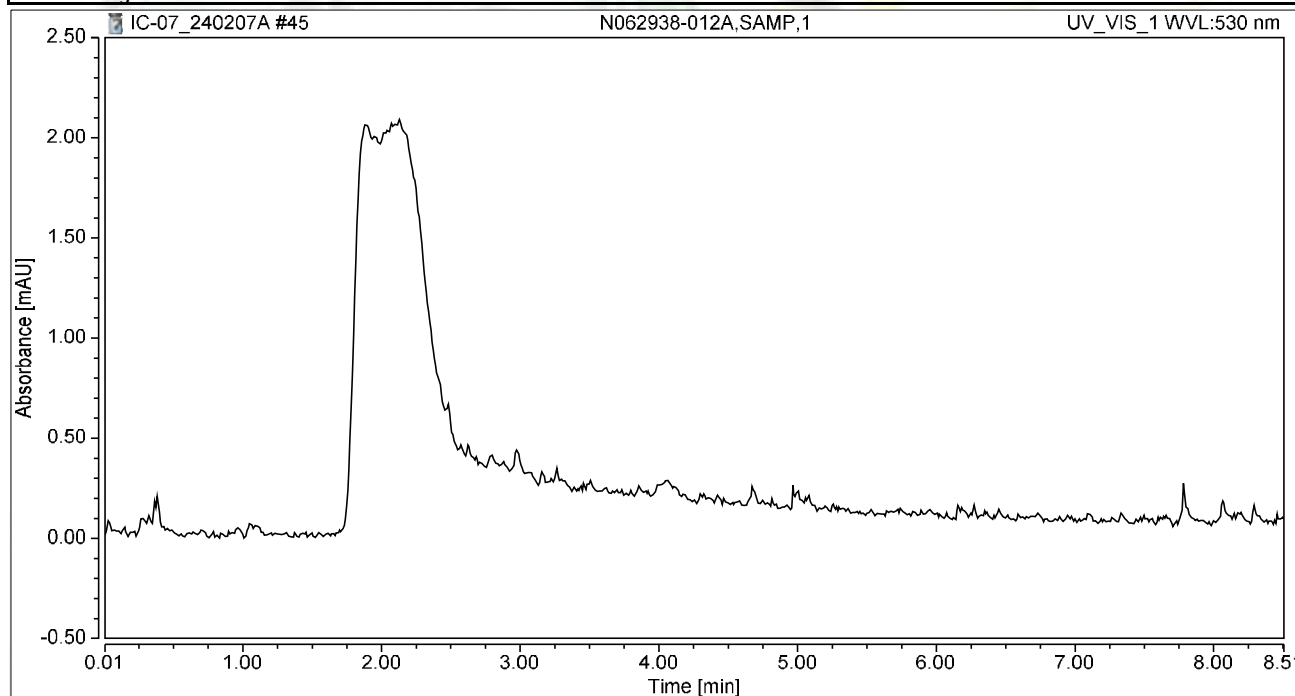
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.255	1.561	100.00	100.00	1.1850
Total:			0.255	1.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

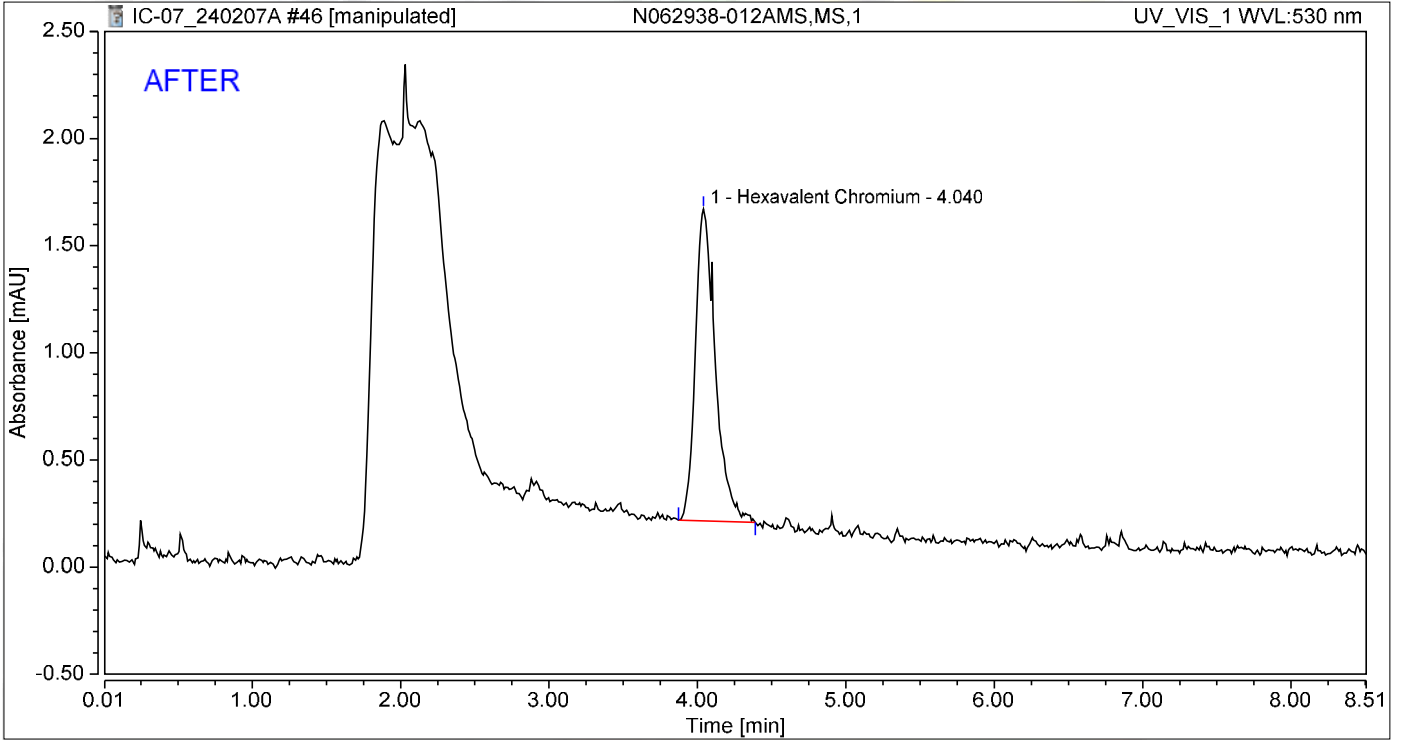
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.228	1.455	100.00	100.00	1.0609
Total:			0.228	1.455	100.00	100.00	

Reviewed by:

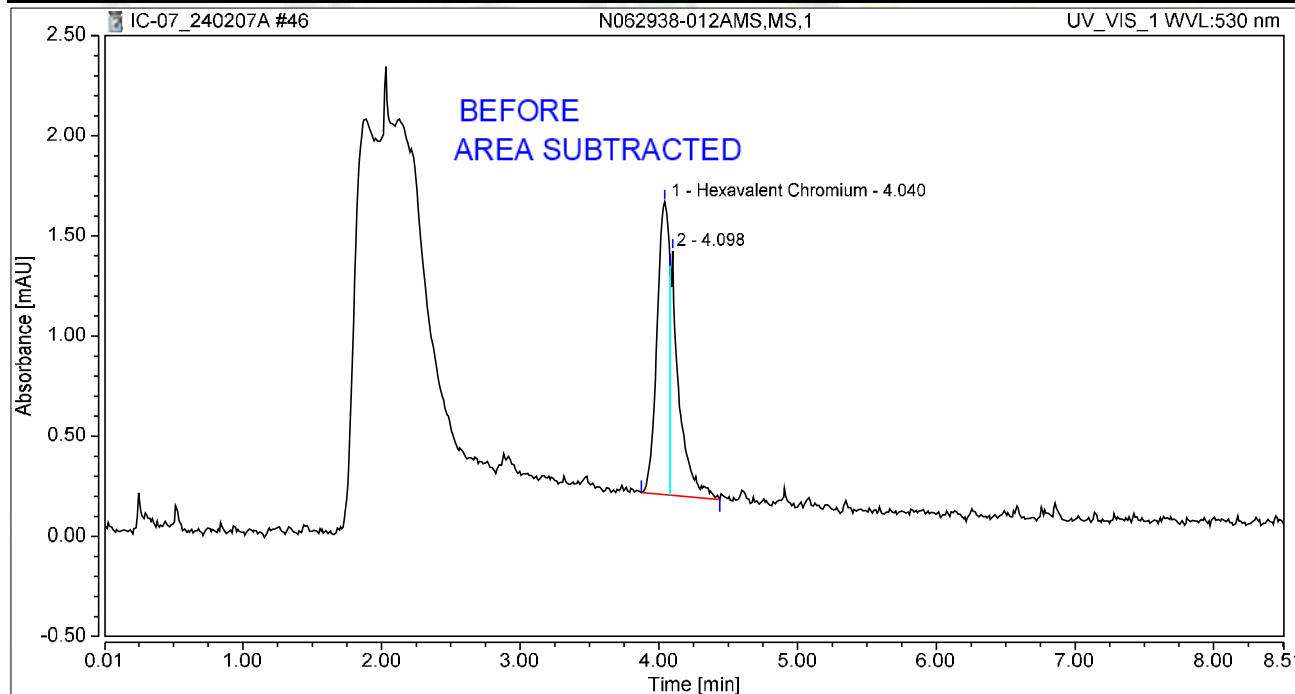
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062938-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

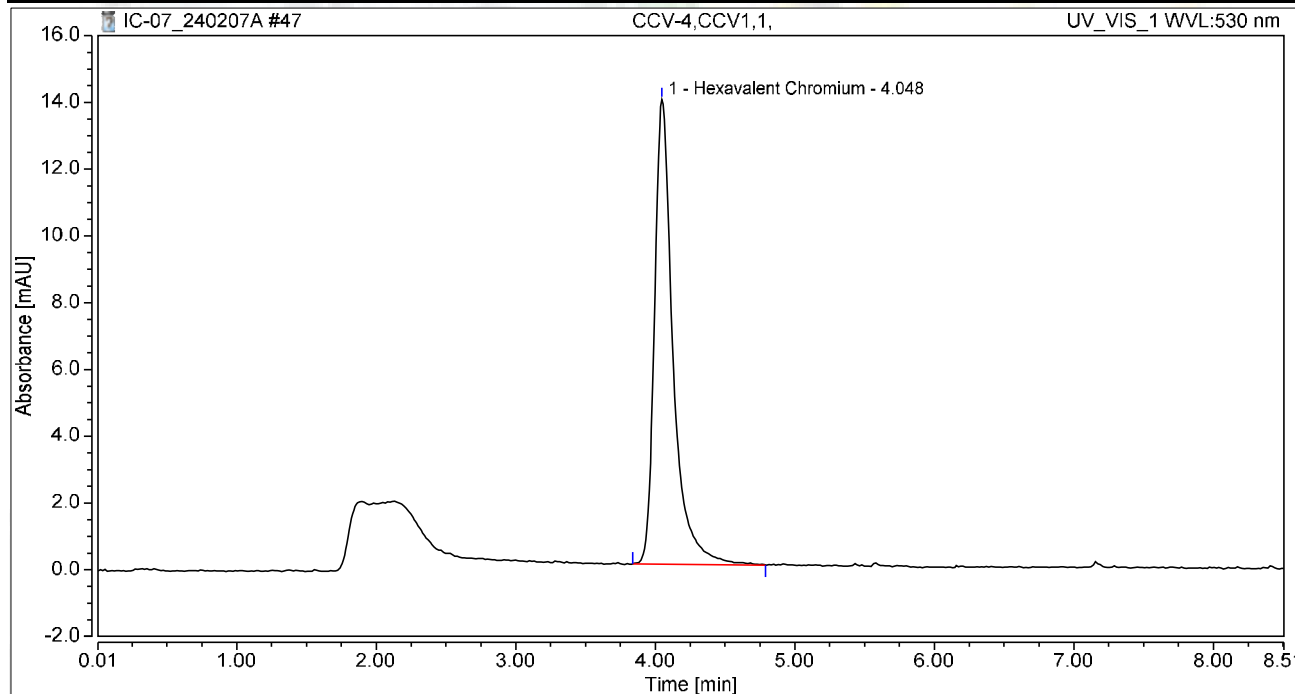
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.146	1.463	62.00	54.53	0.6769
2		4.098	0.089	1.220	38.00	45.47	n.a.
Total:			0.235	2.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

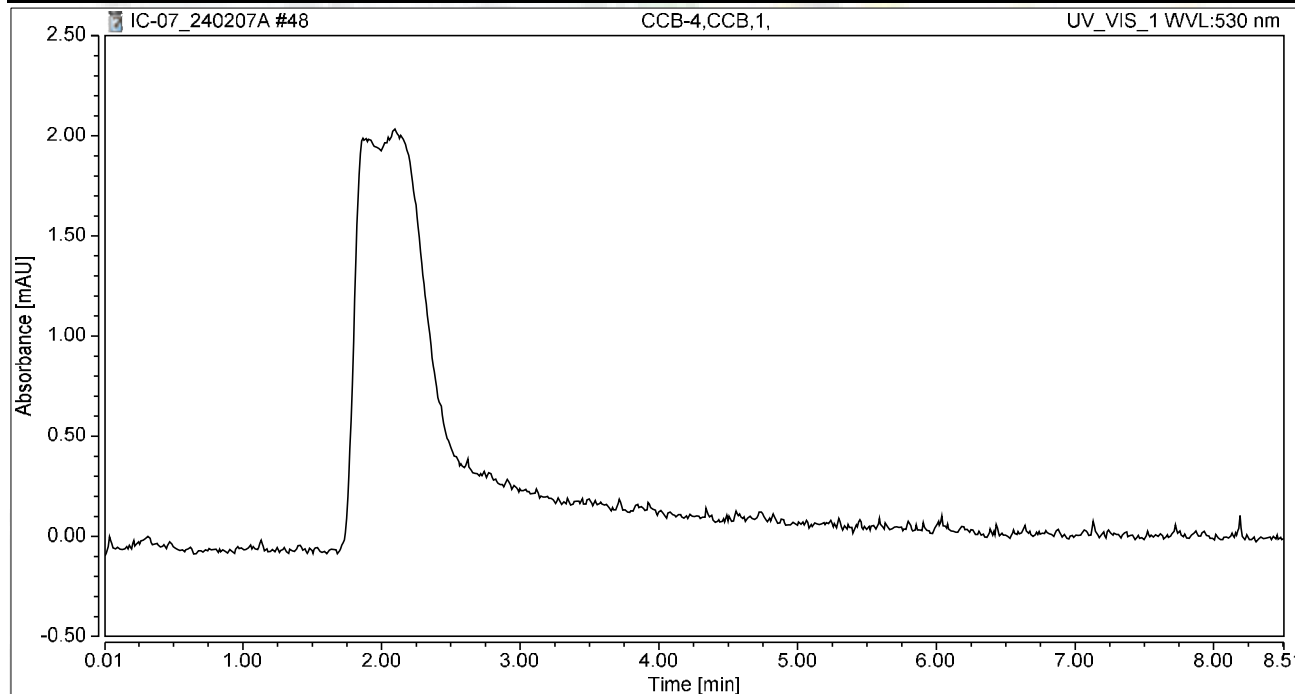
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.148	13.919	100.00	100.00	9.9838
Total:			2.148	13.919	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

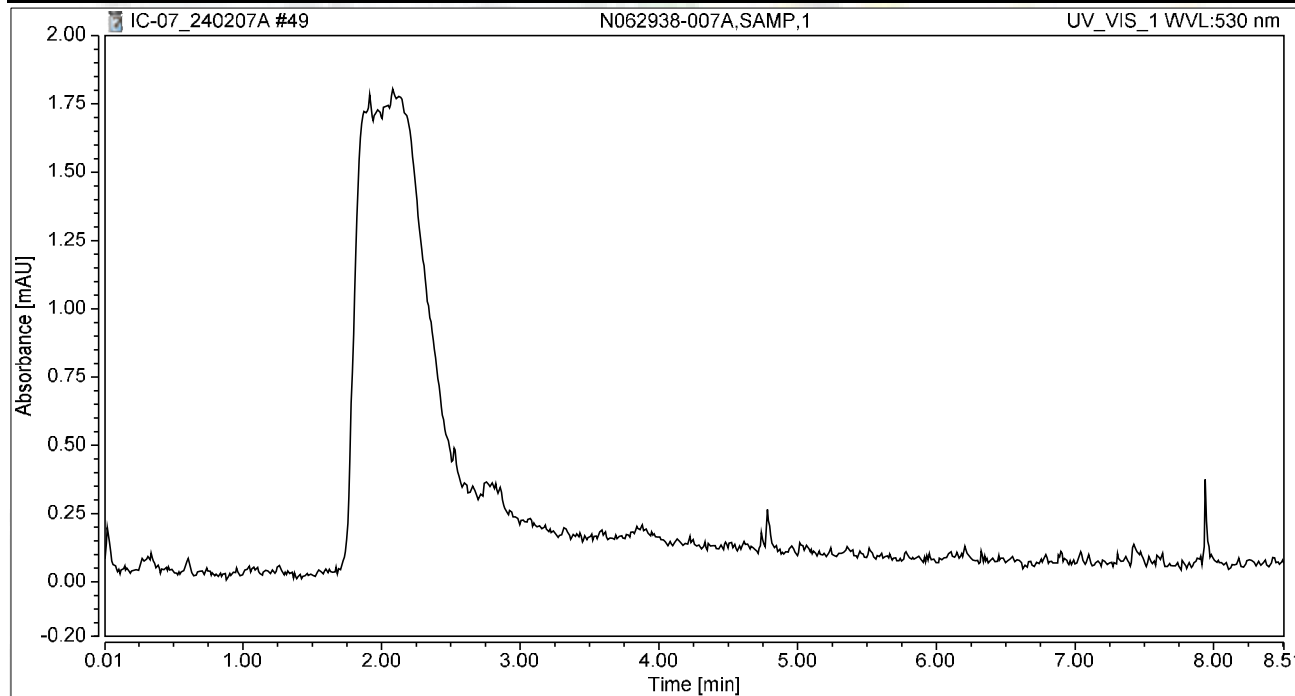
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

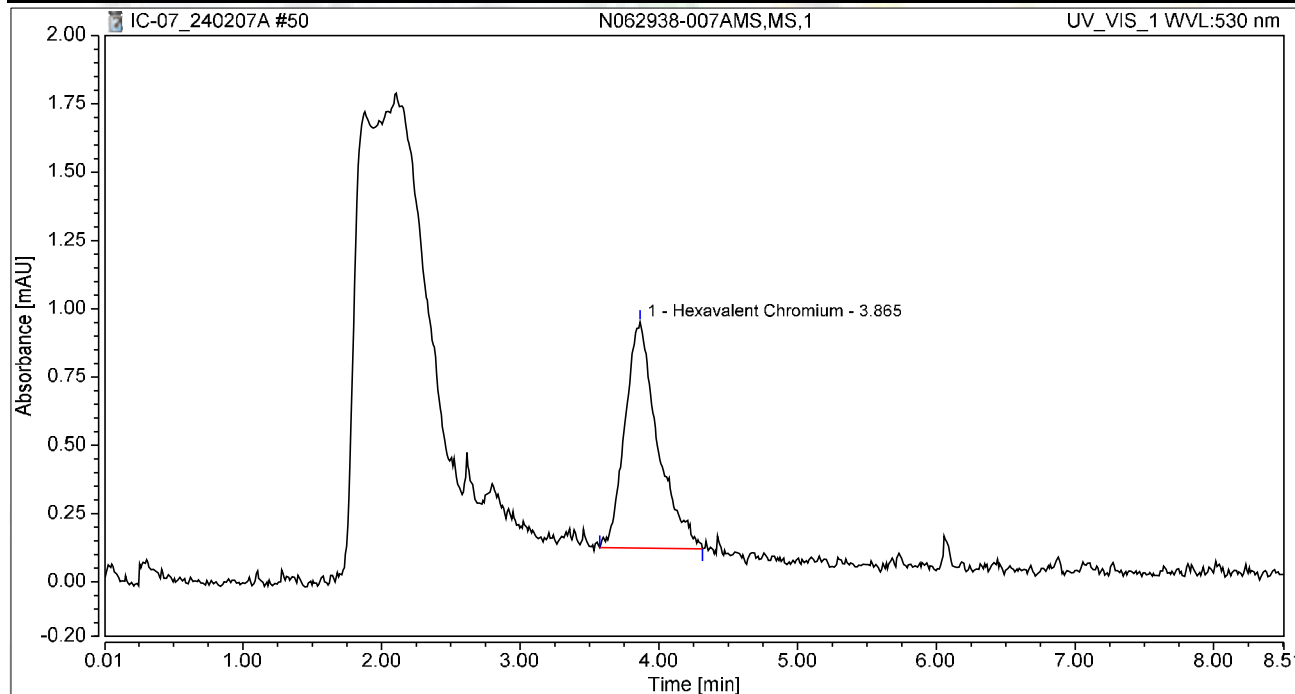
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

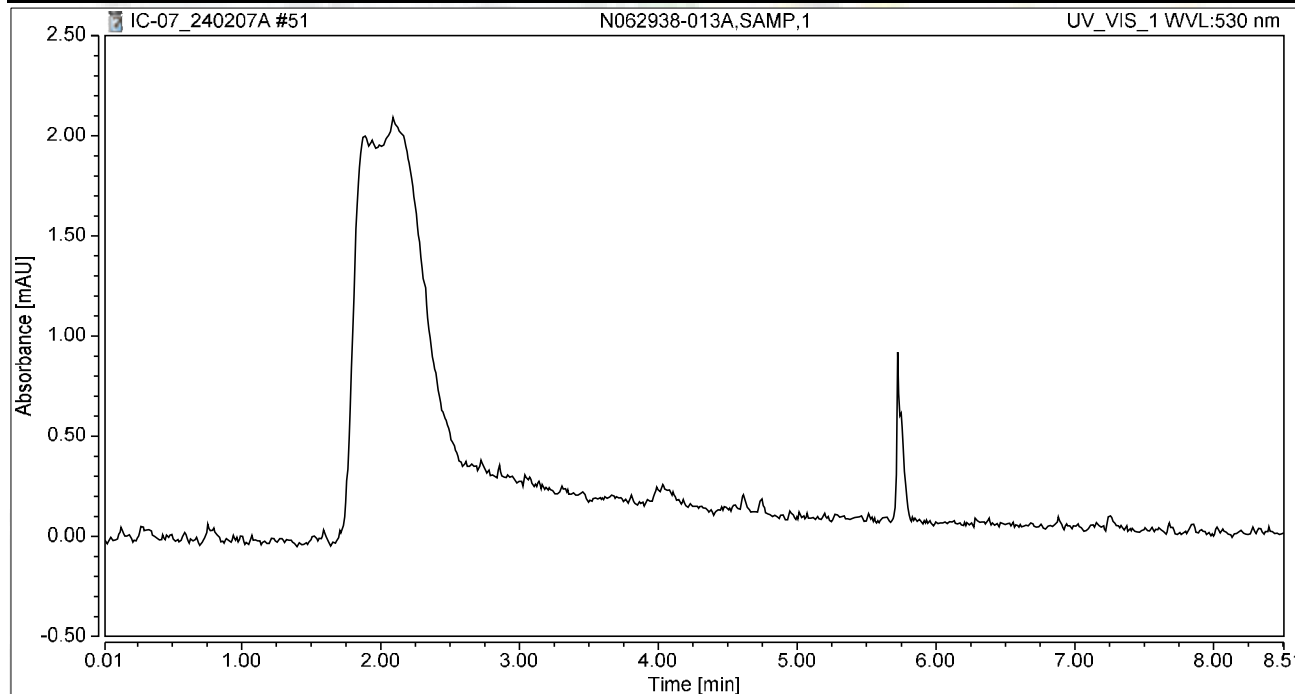
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.225	0.828	100.00	100.00	1.0474
Total:			0.225	0.828	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

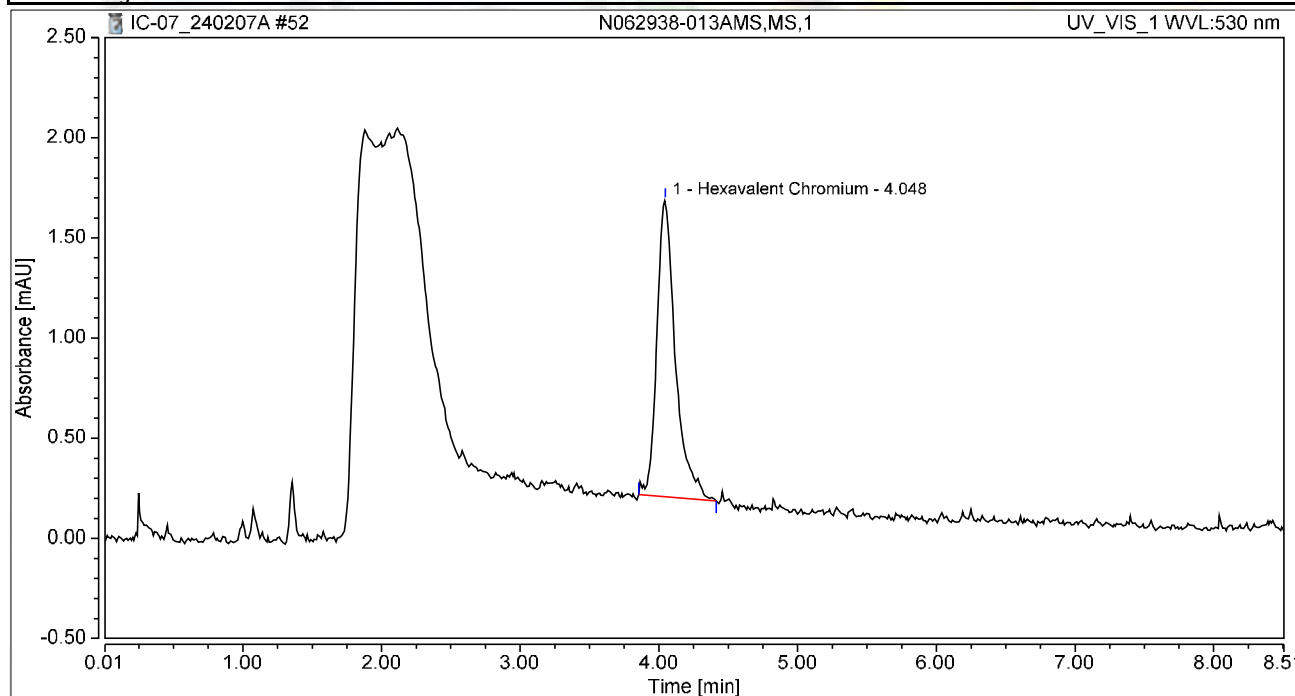
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

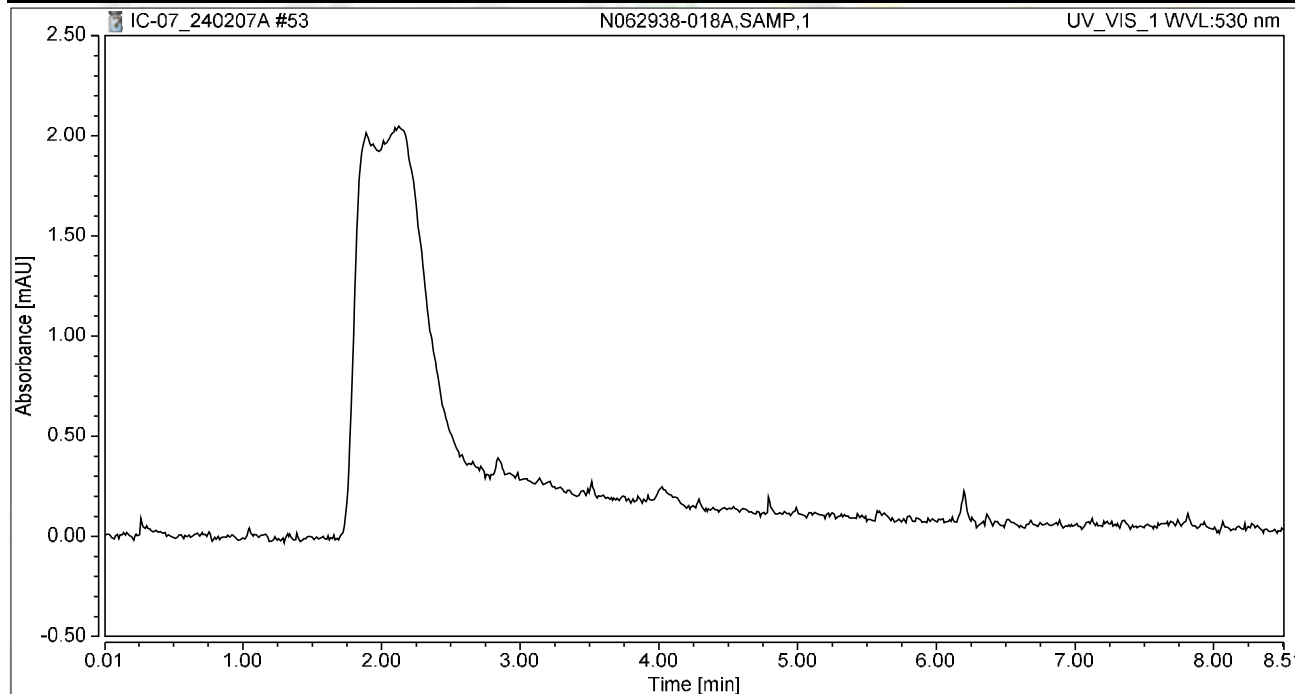
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.229	1.481	100.00	100.00	1.0646
Total:			0.229	1.481	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

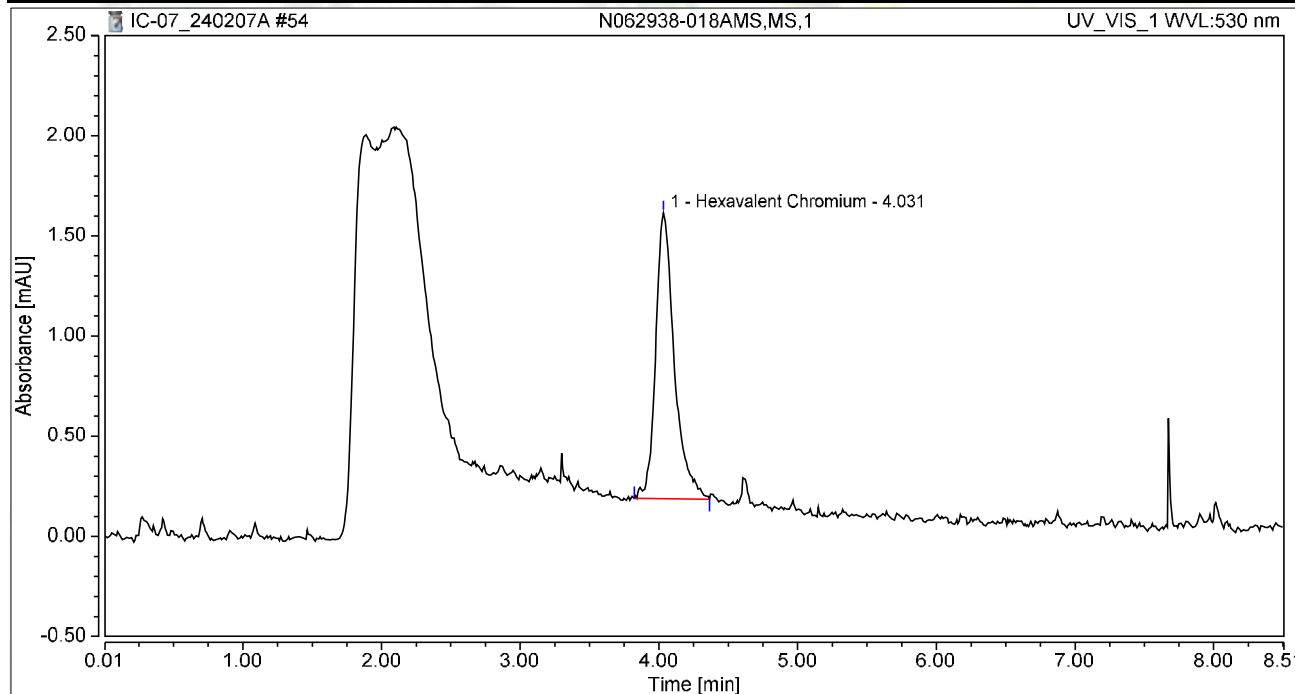
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

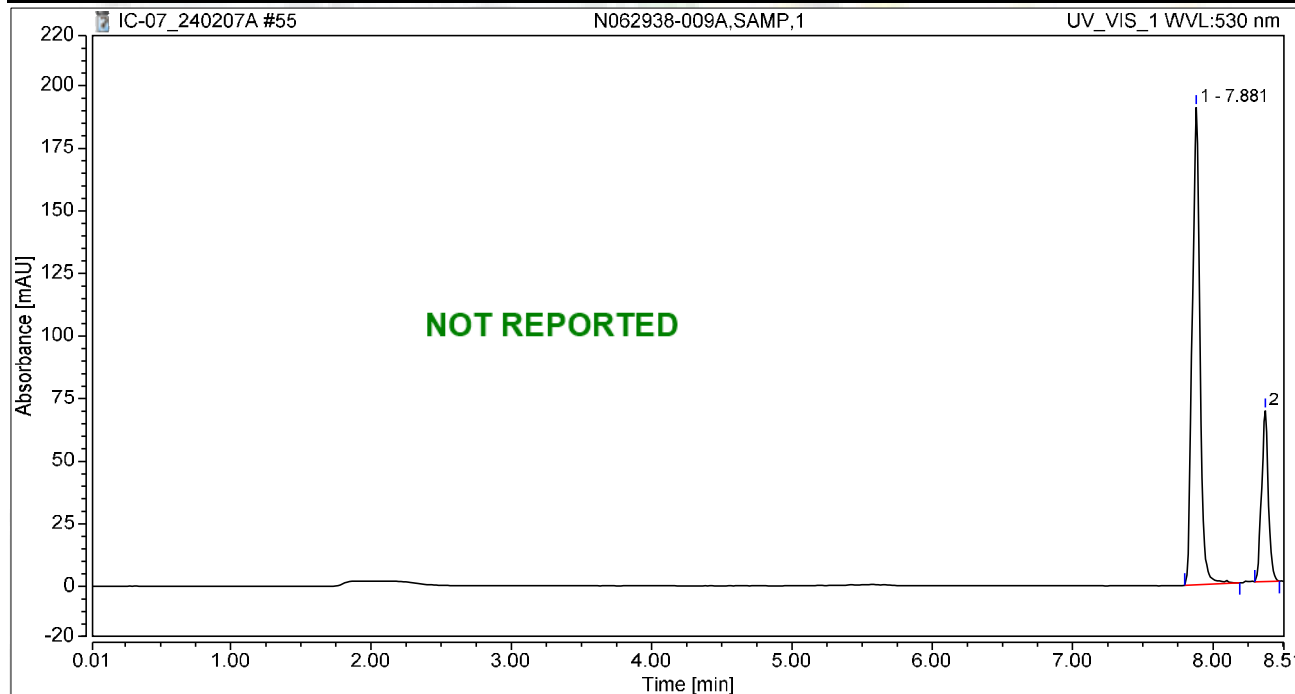
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.222	1.428	100.00	100.00	1.0342
Total:			0.222	1.428	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

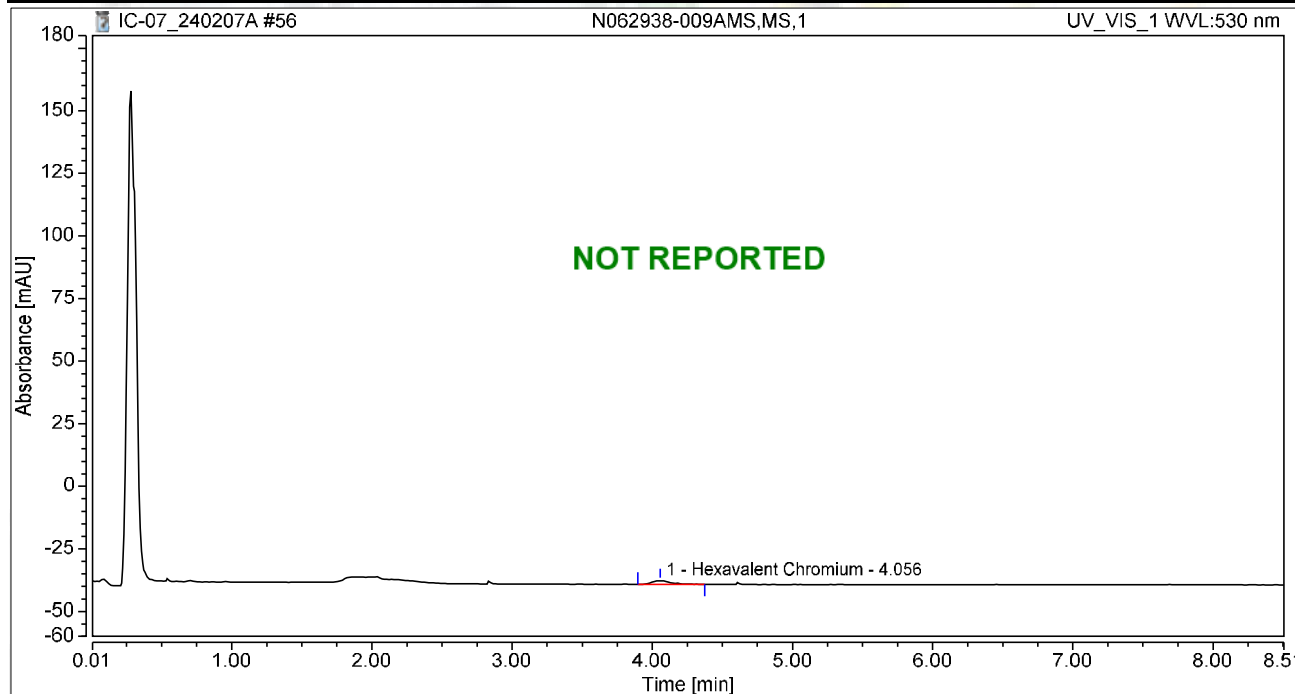
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		7.881	11.989	190.667	75.76	73.58	n.a.
2		8.373	3.836	68.459	24.24	26.42	n.a.
Total:			15.825	259.126	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 17:59	Sample Weight:	1.0000

Chromatogram



Integration Results

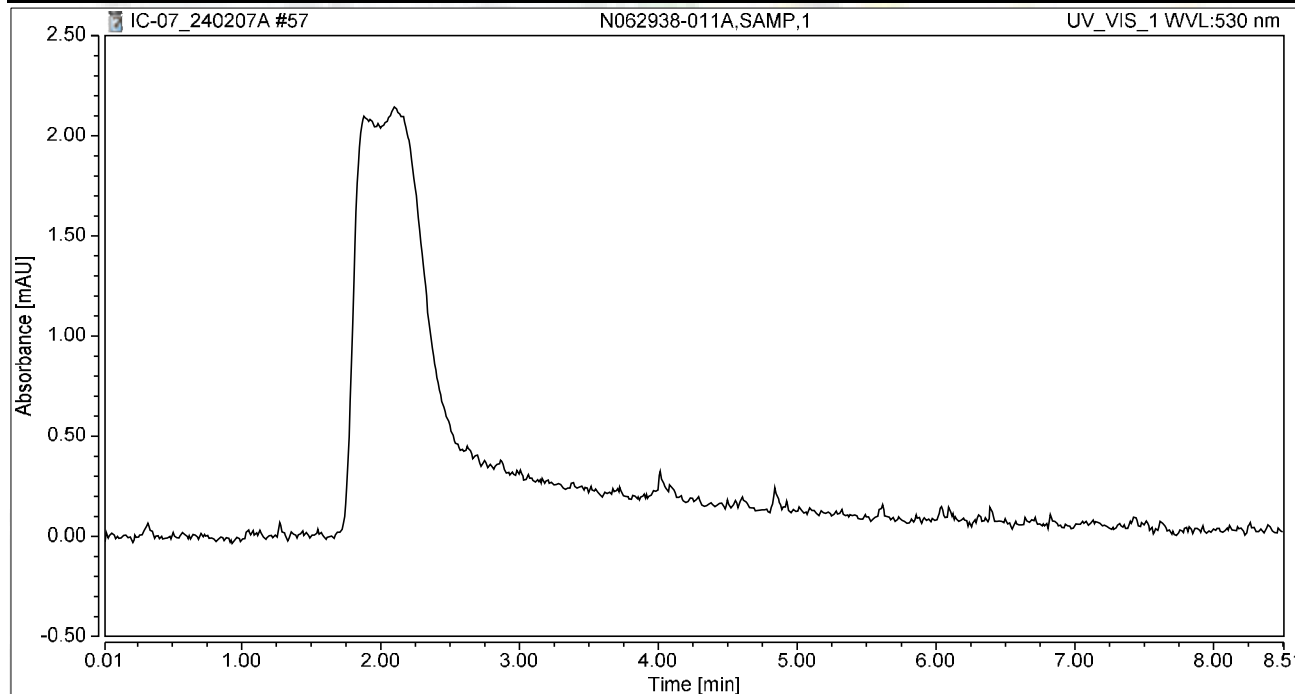
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.223	1.463	100.00	100.00	1.0370
Total:			0.223	1.463	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

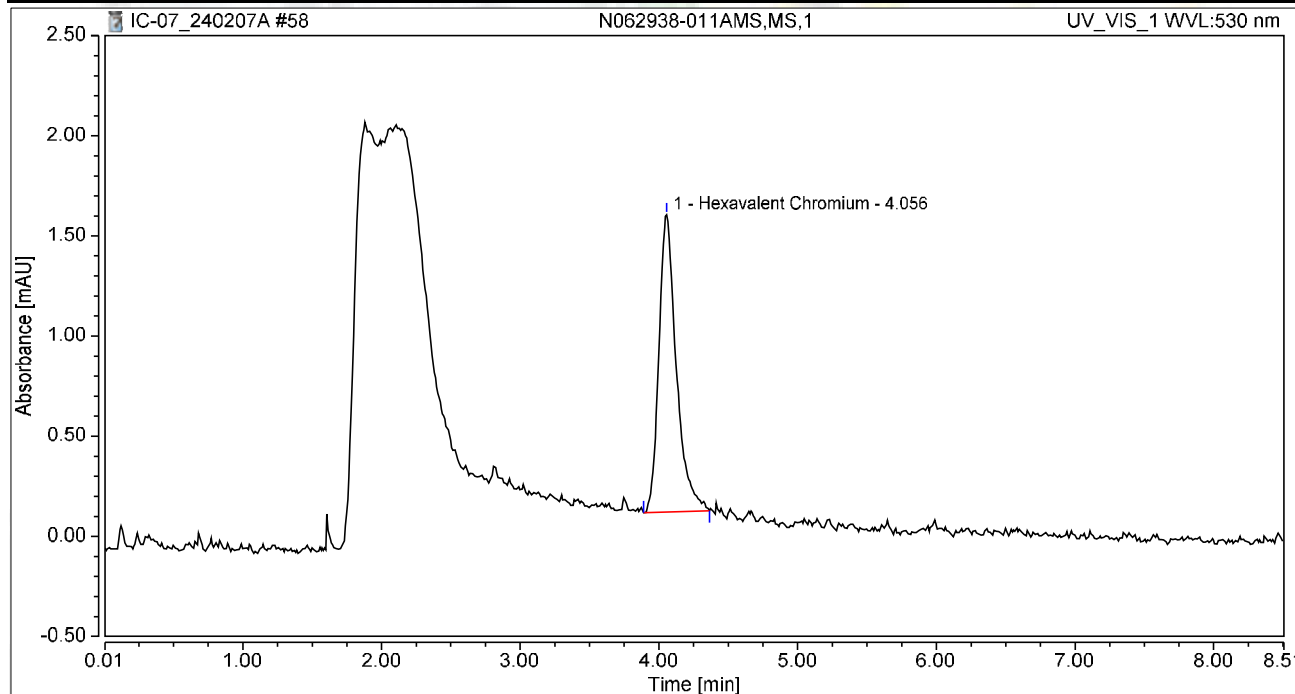
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:18	Sample Weight:	1.0000

Chromatogram



Integration Results

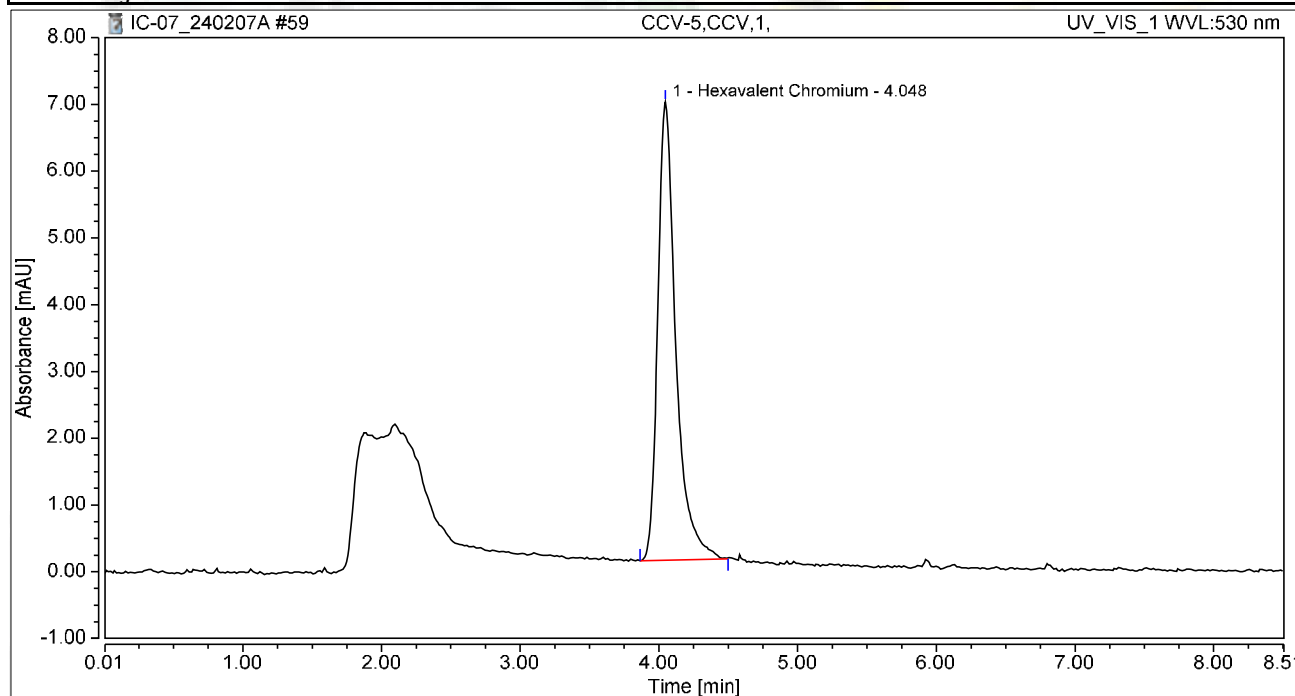
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.216	1.485	100.00	100.00	1.0039
Total:			0.216	1.485	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

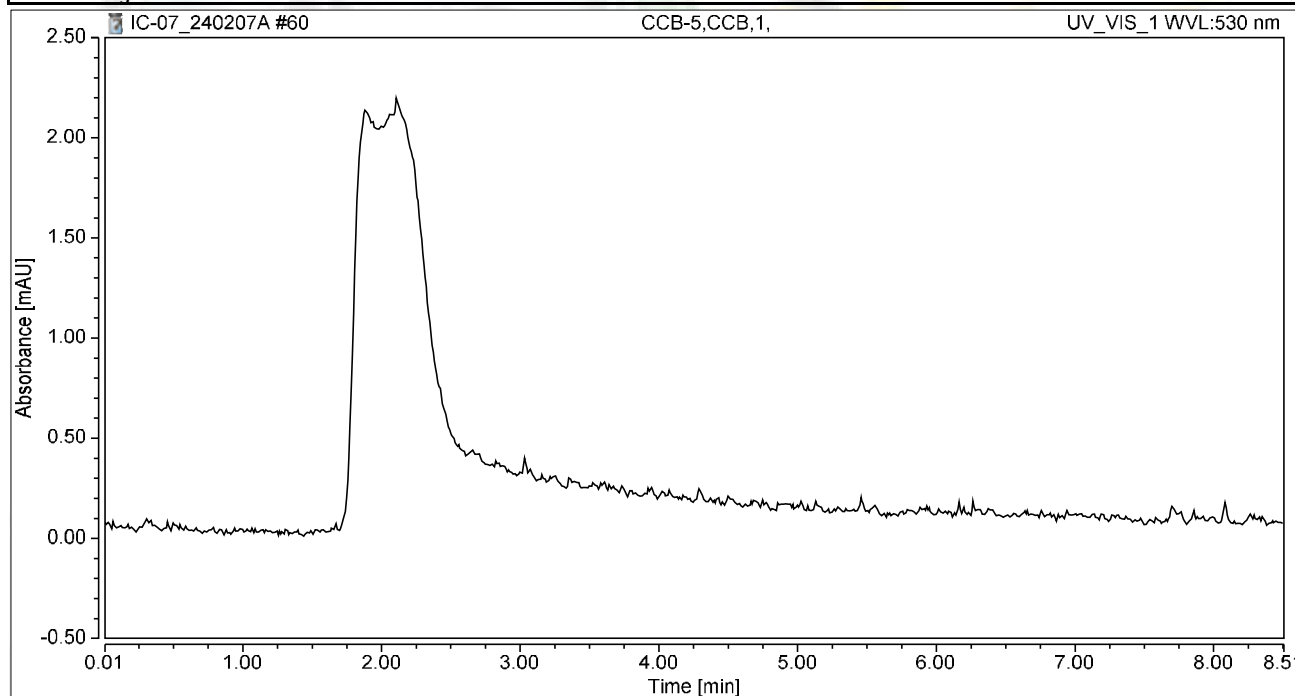
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.036	6.866	100.00	100.00	4.8162
Total:			1.036	6.866	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

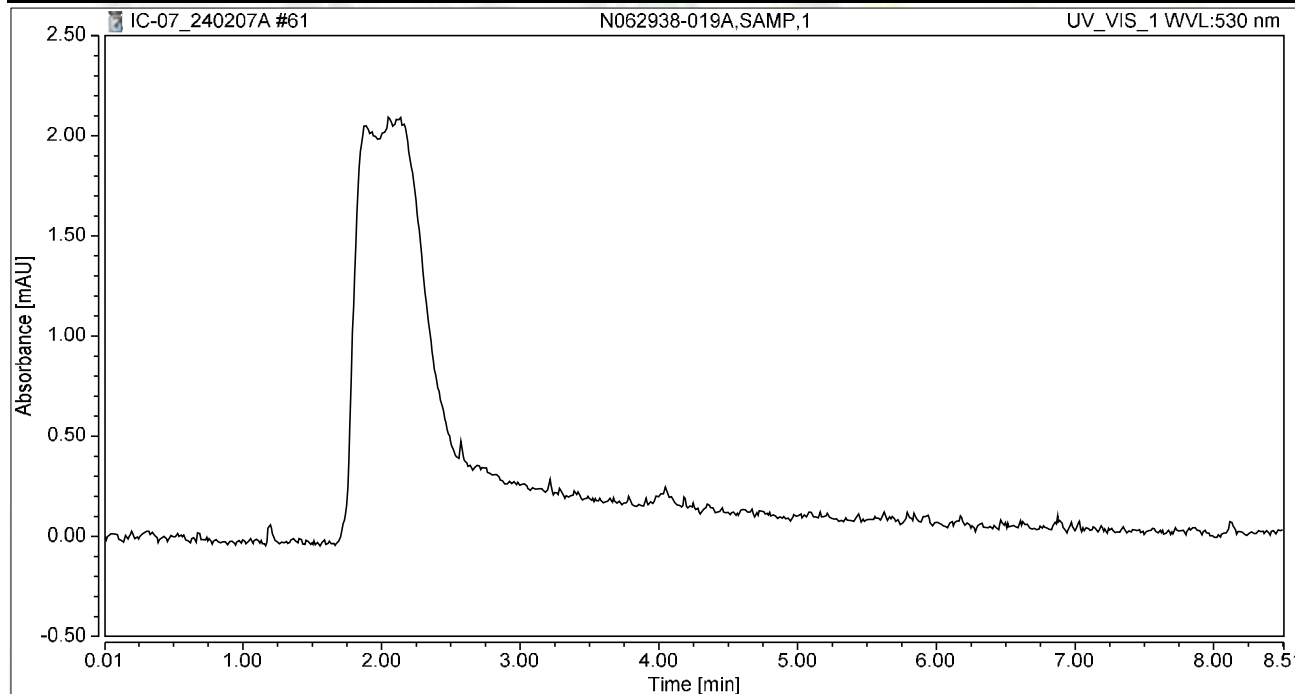
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

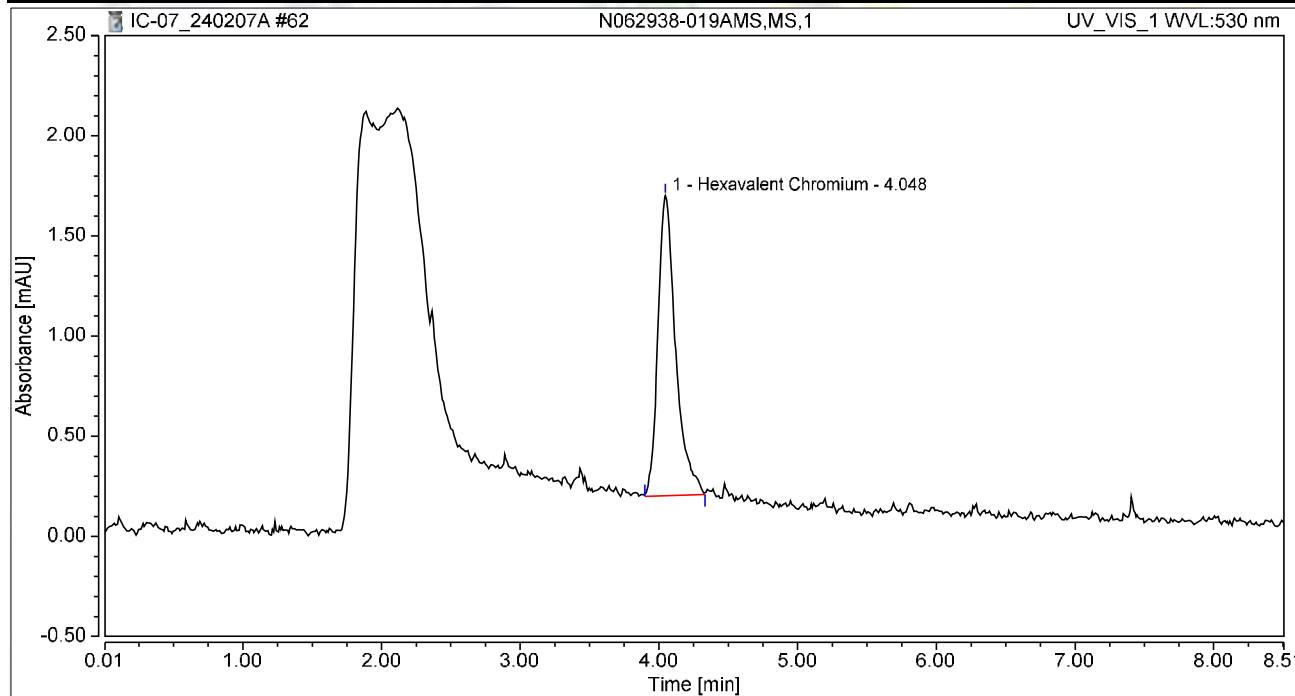
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

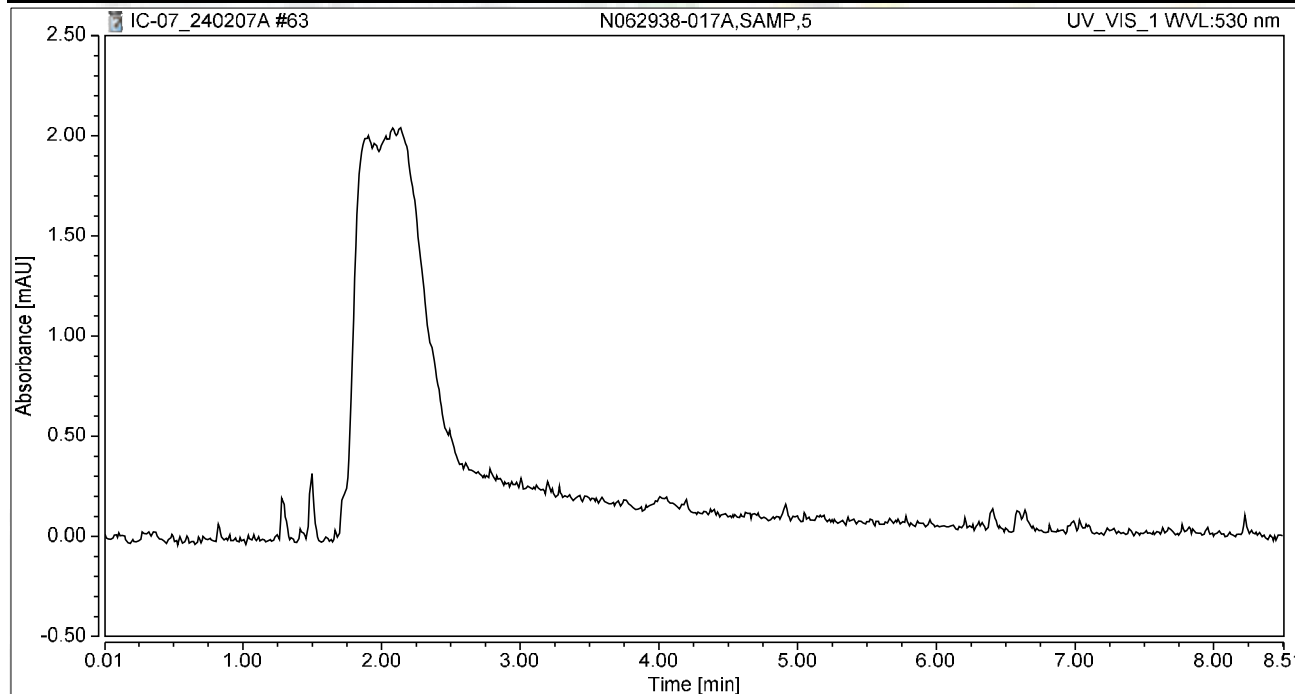
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.222	1.499	100.00	100.00	1.0319
Total:			0.222	1.499	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-017A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

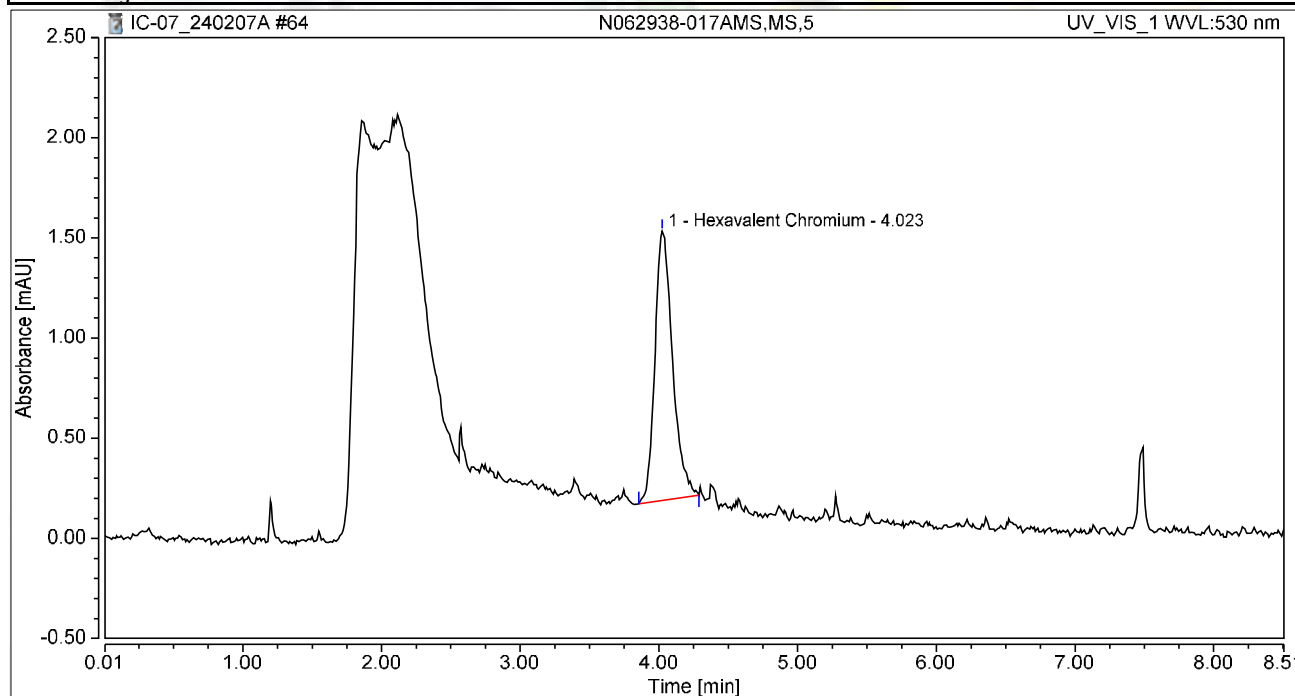
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-017AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

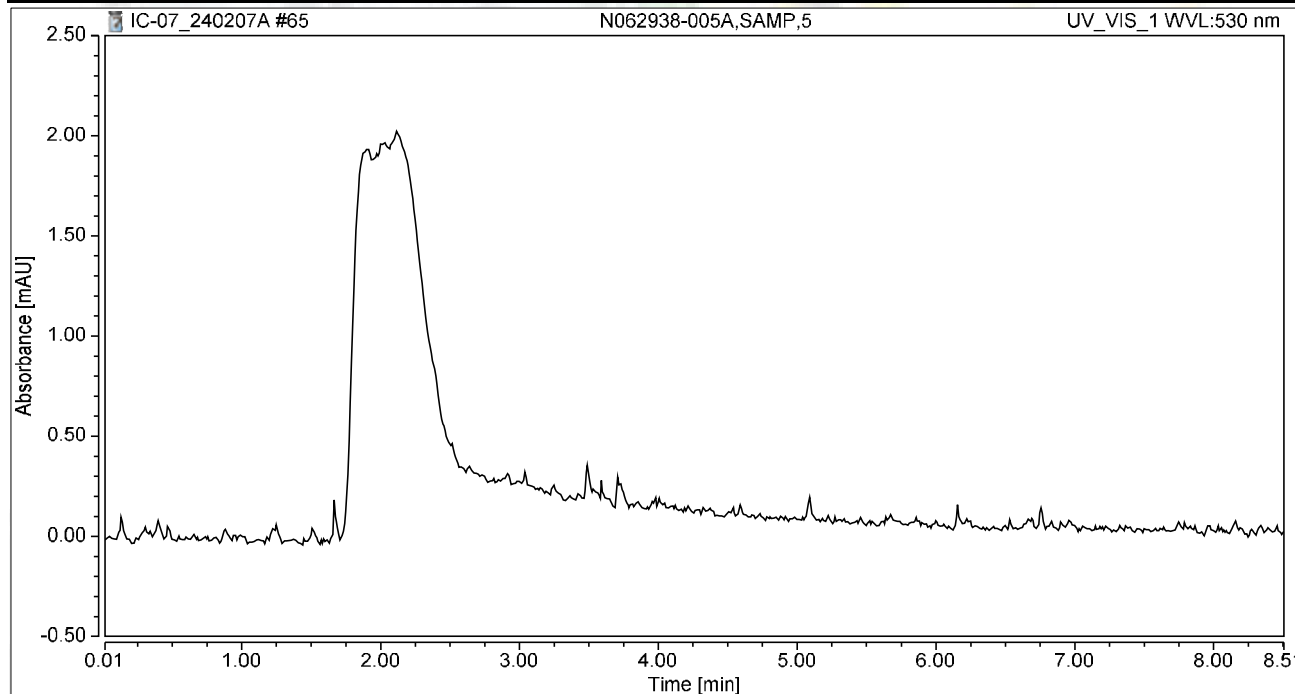
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.198	1.343	100.00	100.00	0.9185
Total:			0.198	1.343	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

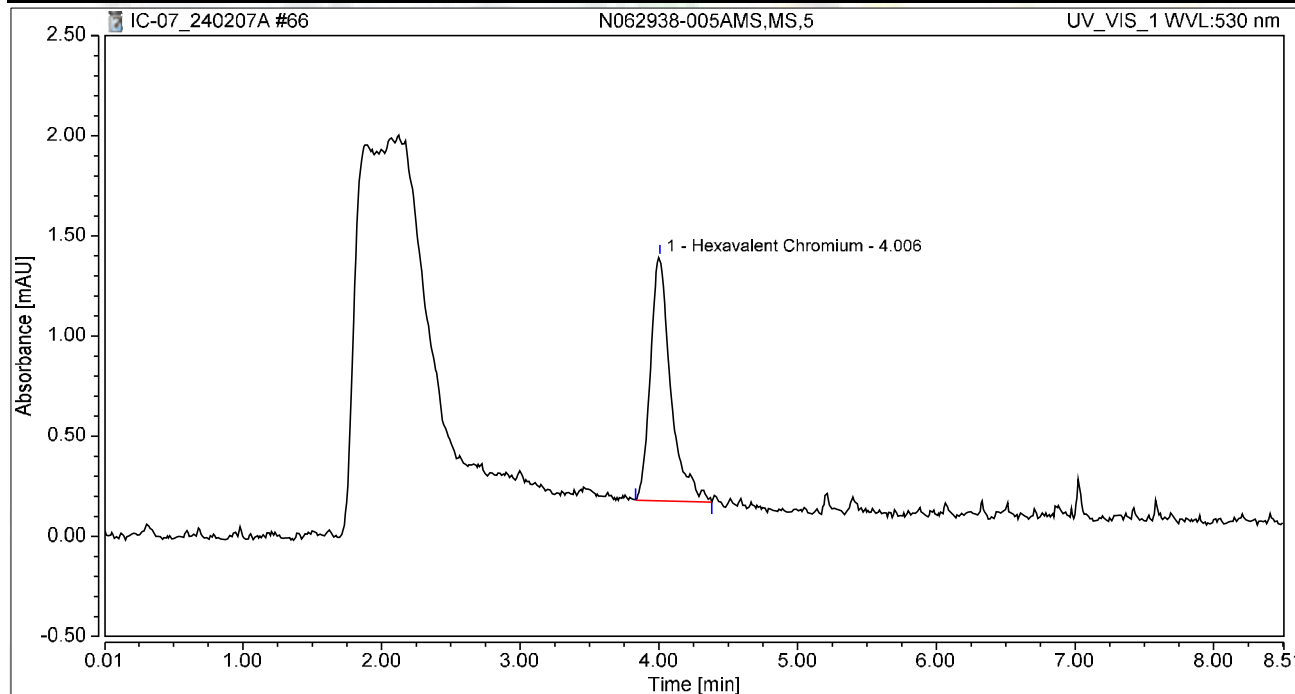
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-005AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:33	Sample Weight:	1.0000

Chromatogram



Integration Results

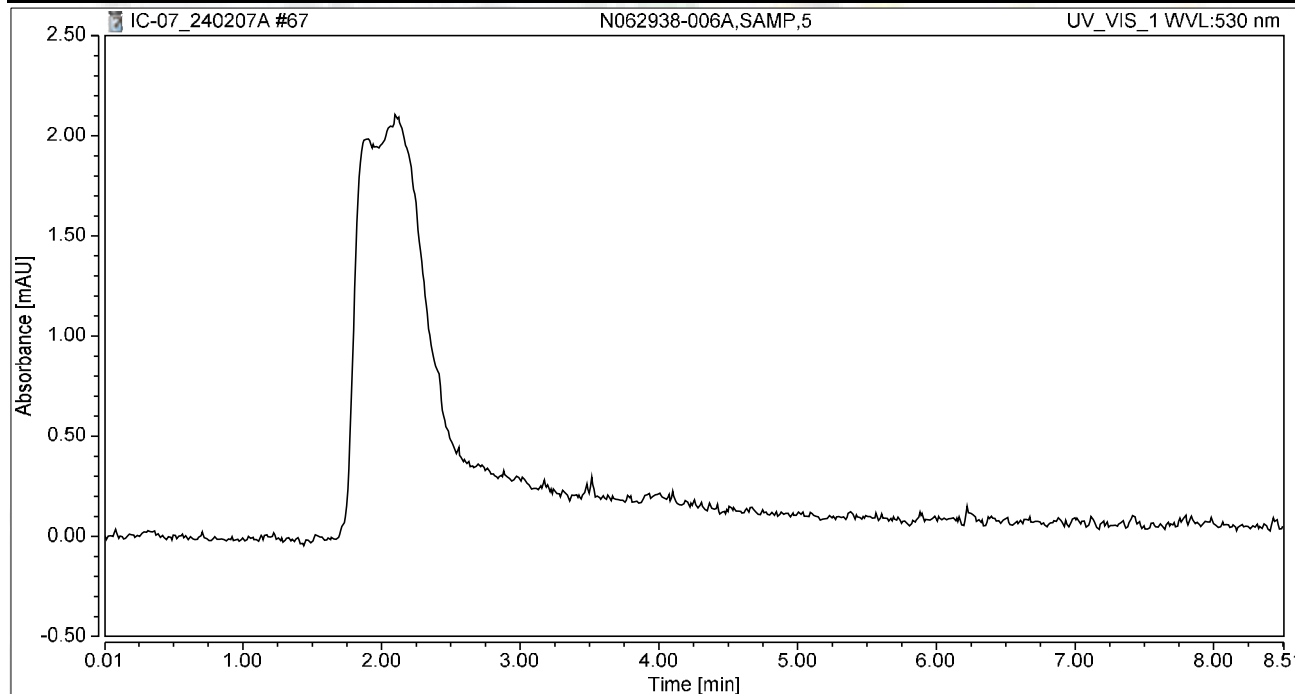
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.207	1.218	100.00	100.00	0.9602
Total:			0.207	1.218	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:46	Sample Weight:	1.0000

Chromatogram



Integration Results

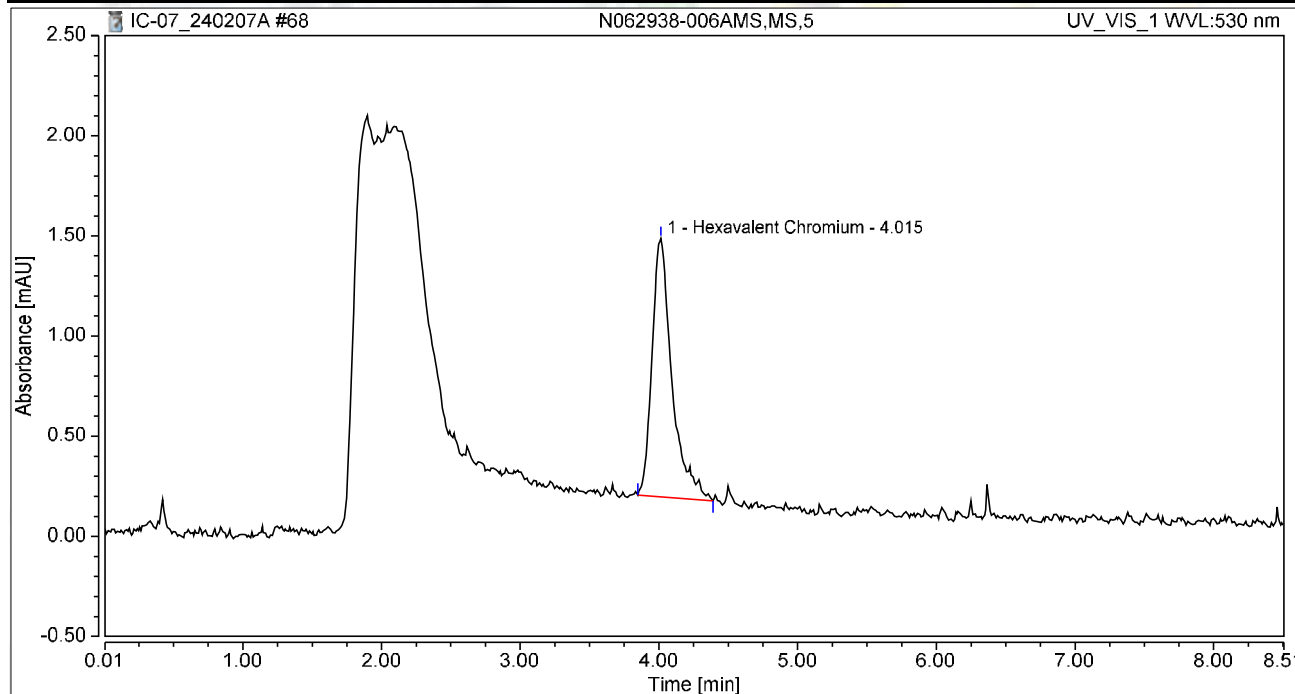
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 19:56	Sample Weight:	1.0000

Chromatogram



Integration Results

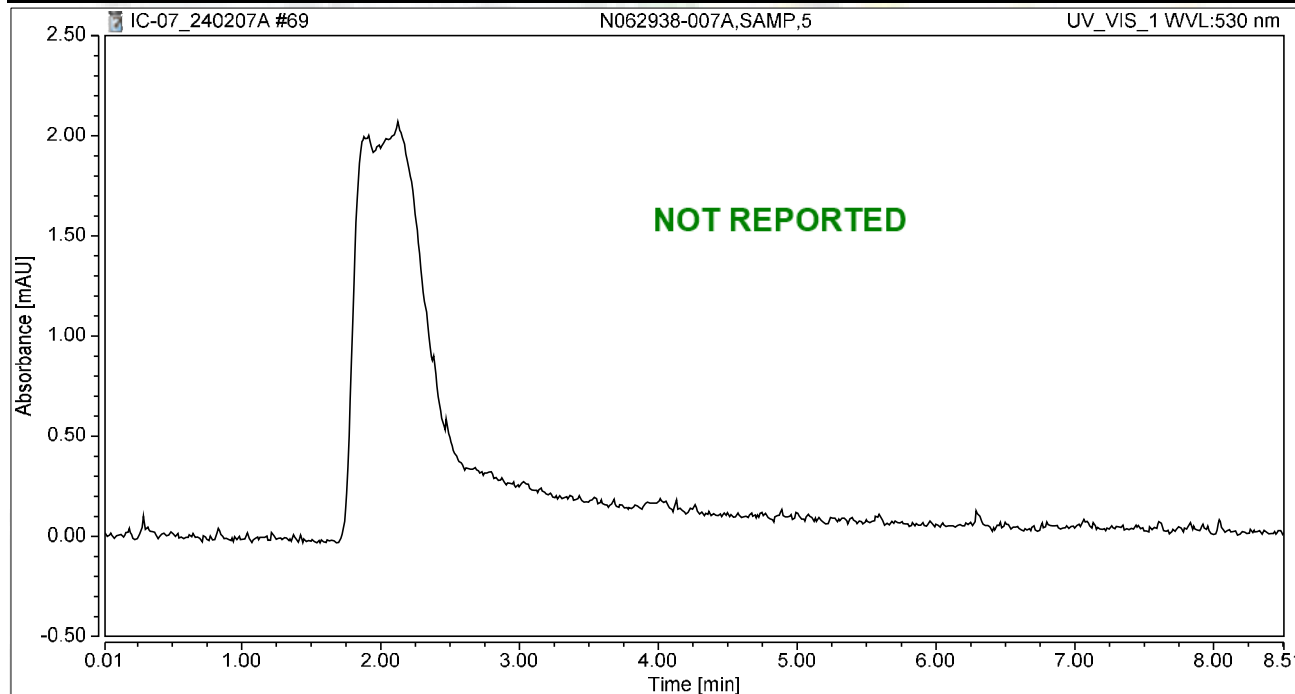
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.214	1.290	100.00	100.00	0.9948
Total:			0.214	1.290	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007A,SAMP,5	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:05	Sample Weight:	1.0000

Chromatogram



Integration Results

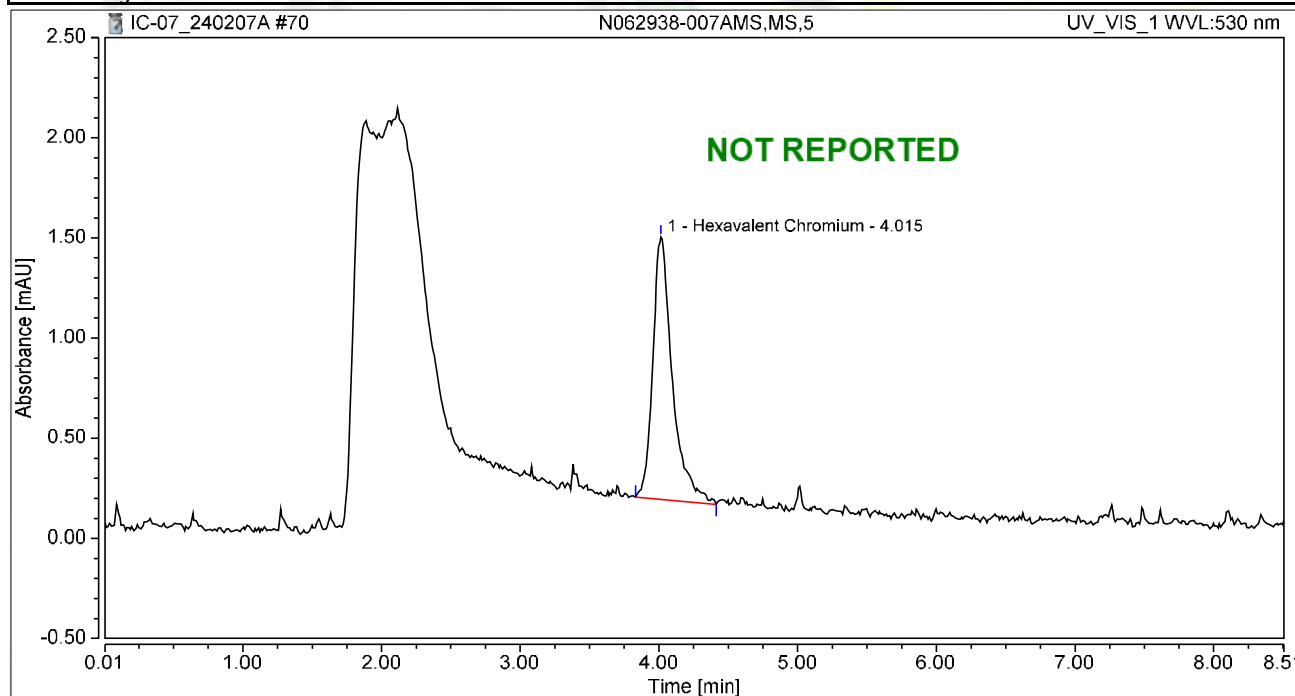
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:14	Sample Weight:	1.0000

Chromatogram



Integration Results

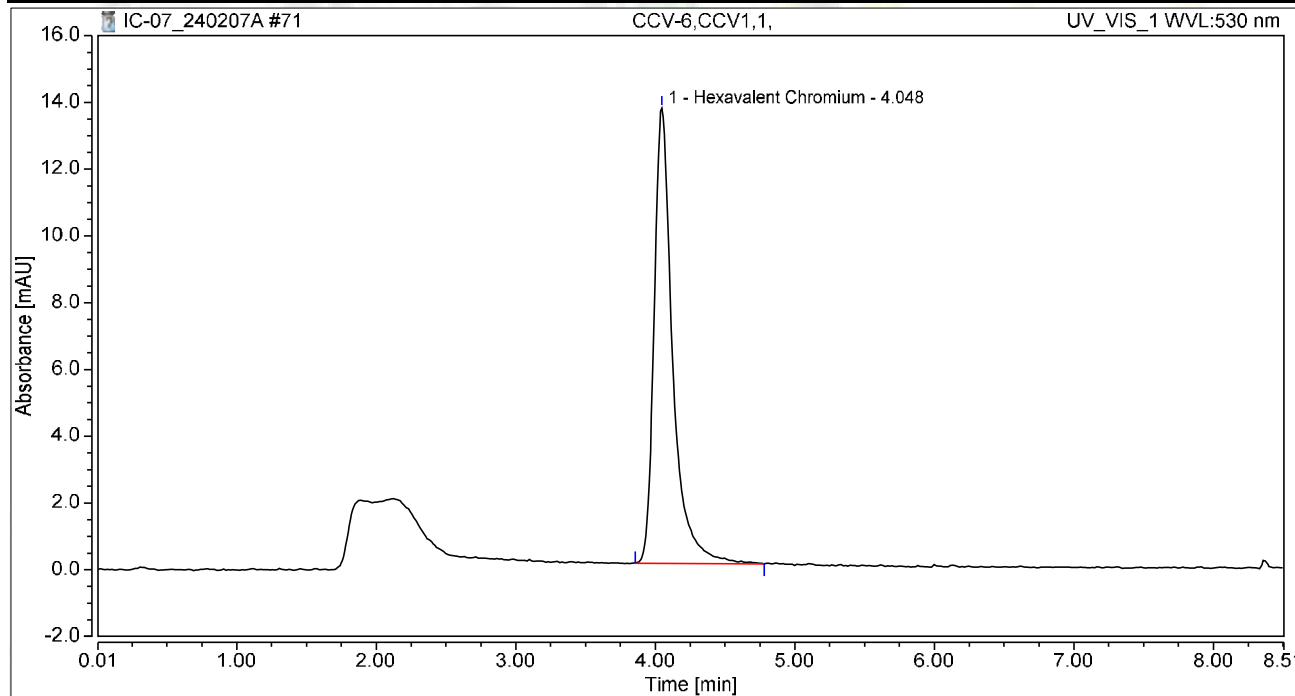
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.214	1.311	100.00	100.00	0.9929
Total:			0.214	1.311	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:24	Sample Weight:	1.0000

Chromatogram



Integration Results

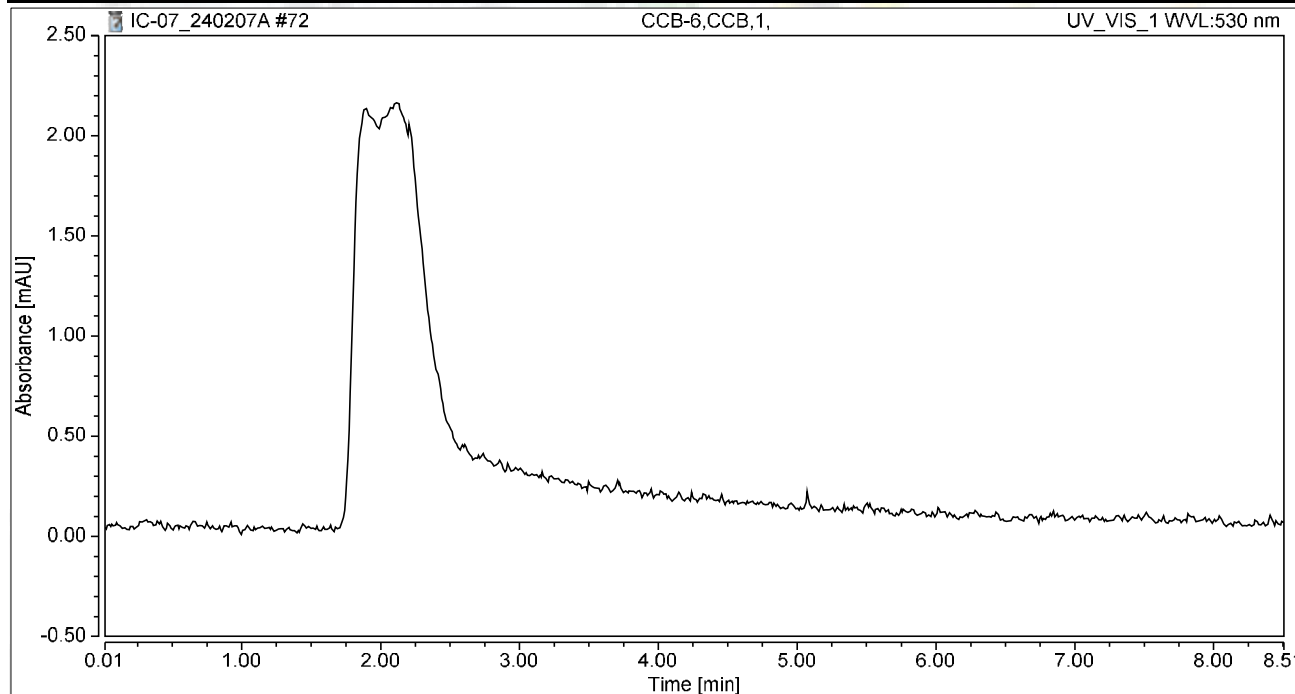
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.109	13.642	100.00	100.00	9.8058
Total:			2.109	13.642	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:33	Sample Weight:	1.0000

Chromatogram



Integration Results

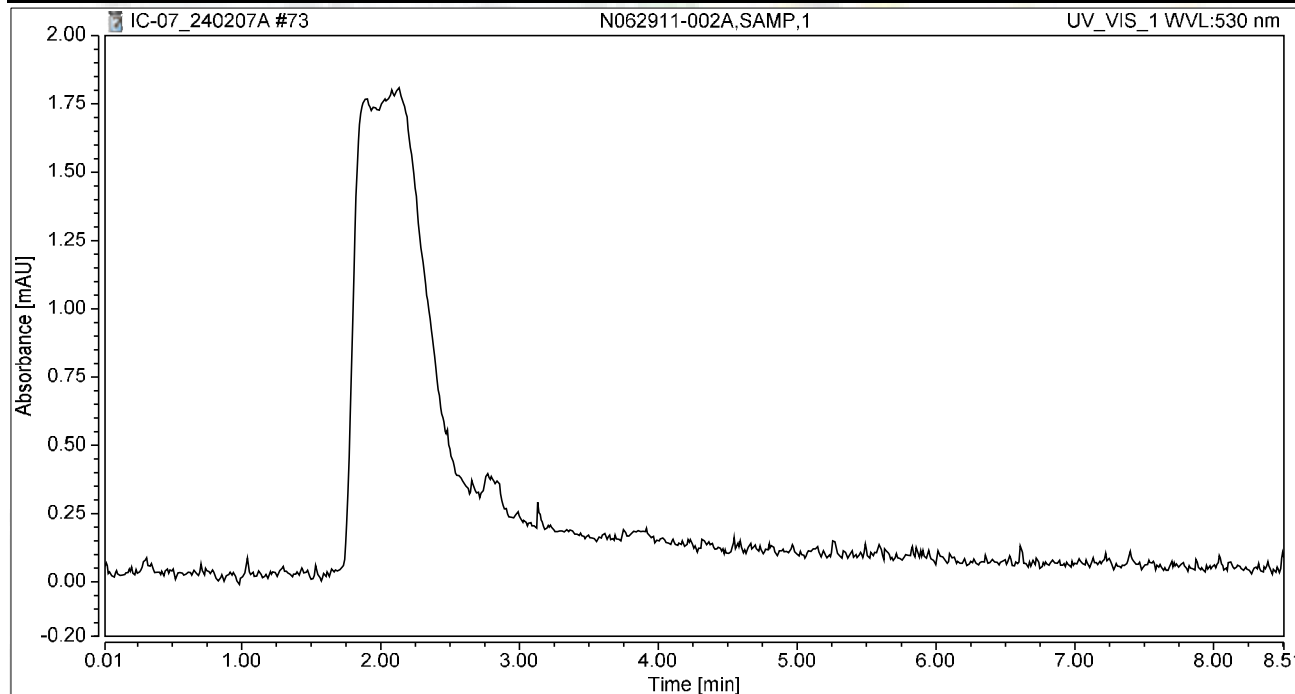
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:43	Sample Weight:	1.0000

Chromatogram



Integration Results

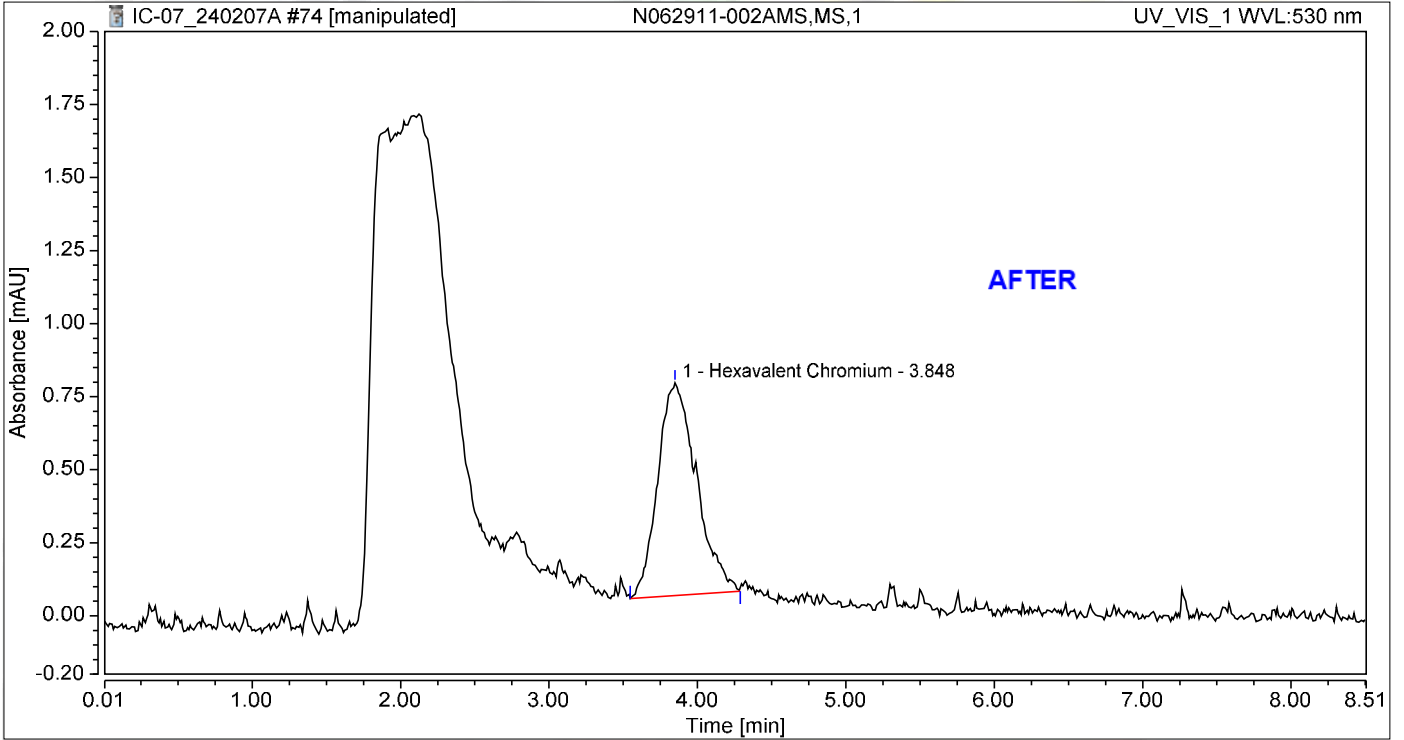
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.219	0.729	100.00	100.00	1.0198
Total:			0.219	0.729	100.00	100.00	

Reviewed by:

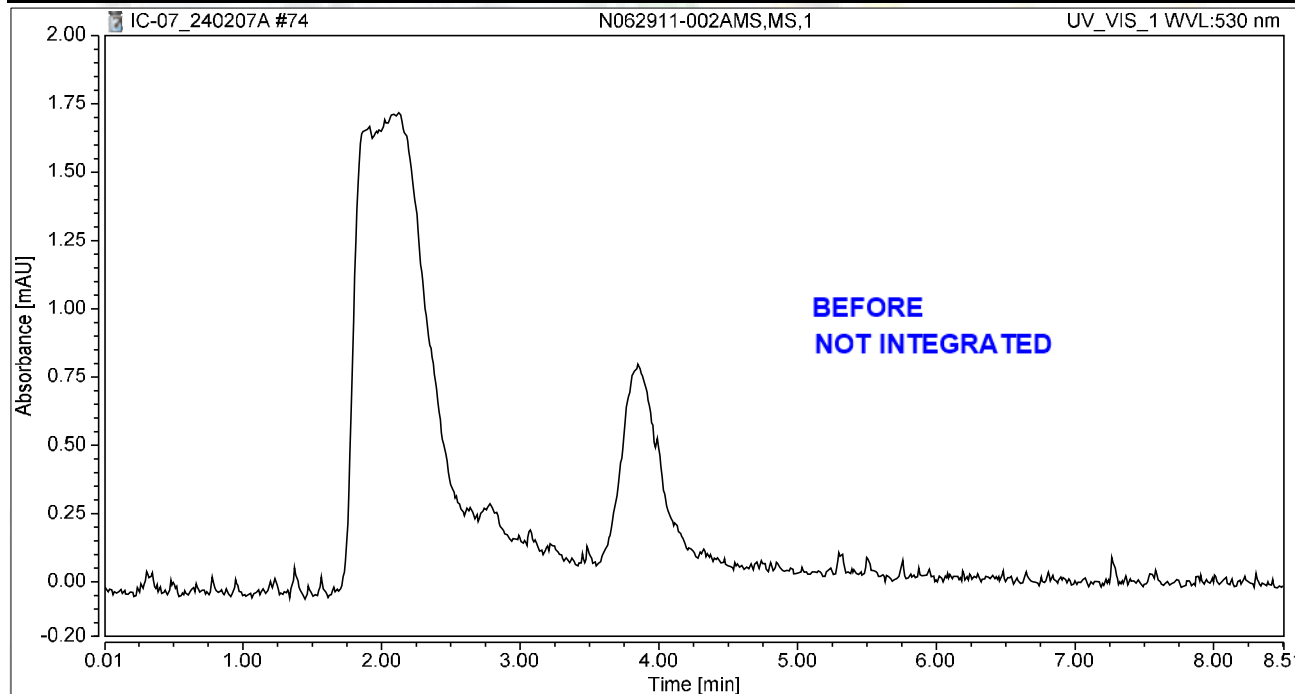
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062911-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 20:52	Sample Weight:	1.0000

Chromatogram



Integration Results

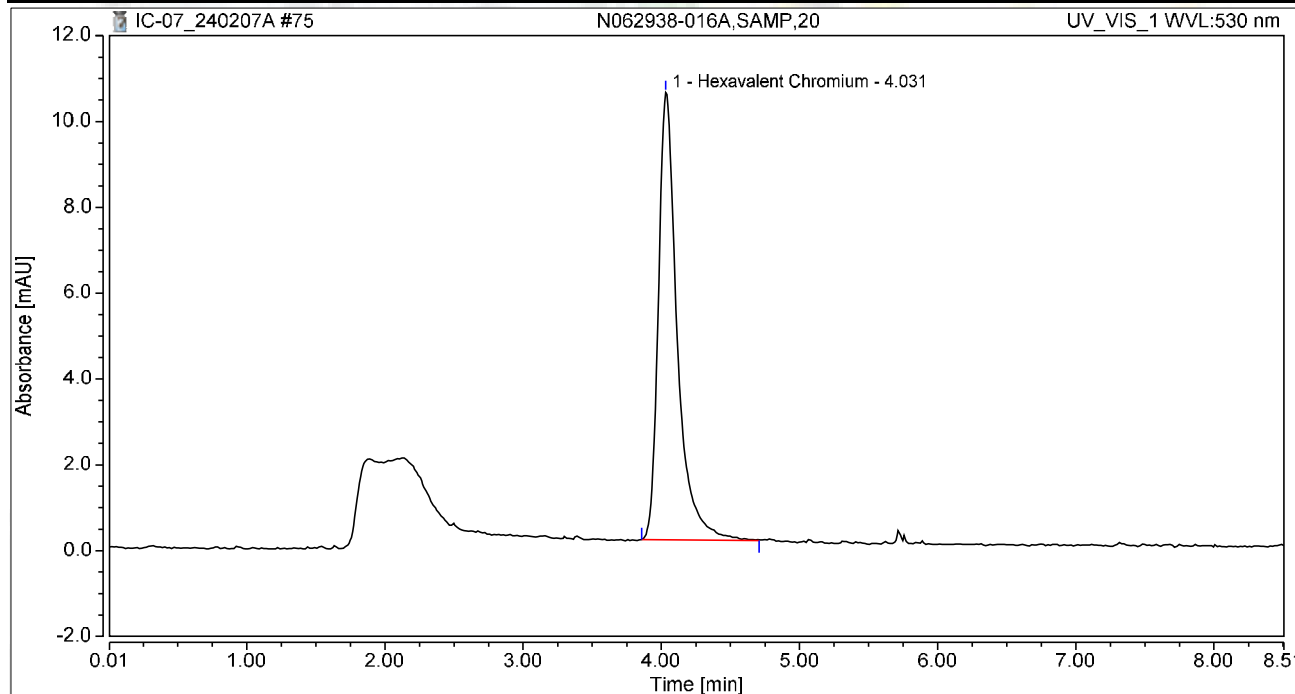
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016A,SAMP,20	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

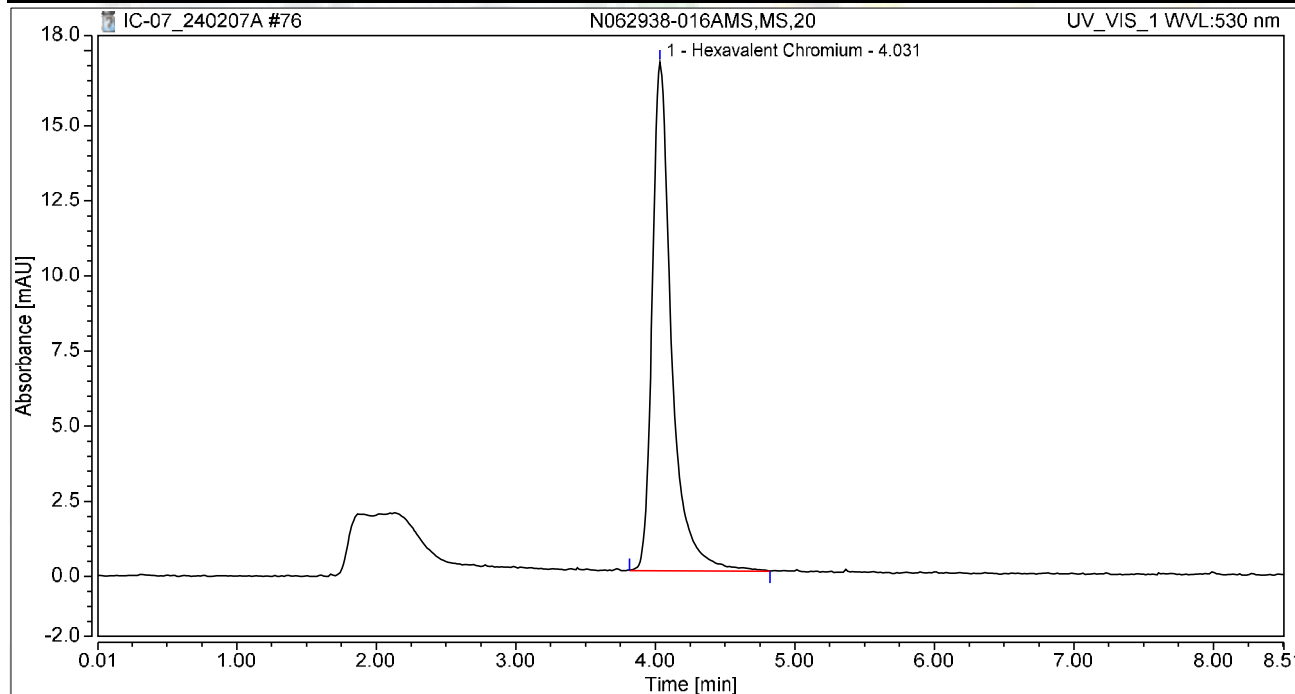
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.647	10.421	100.00	100.00	7.6570
Total:			1.647	10.421	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-016AMS,MS,20	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:11	Sample Weight:	1.0000

Chromatogram



Integration Results

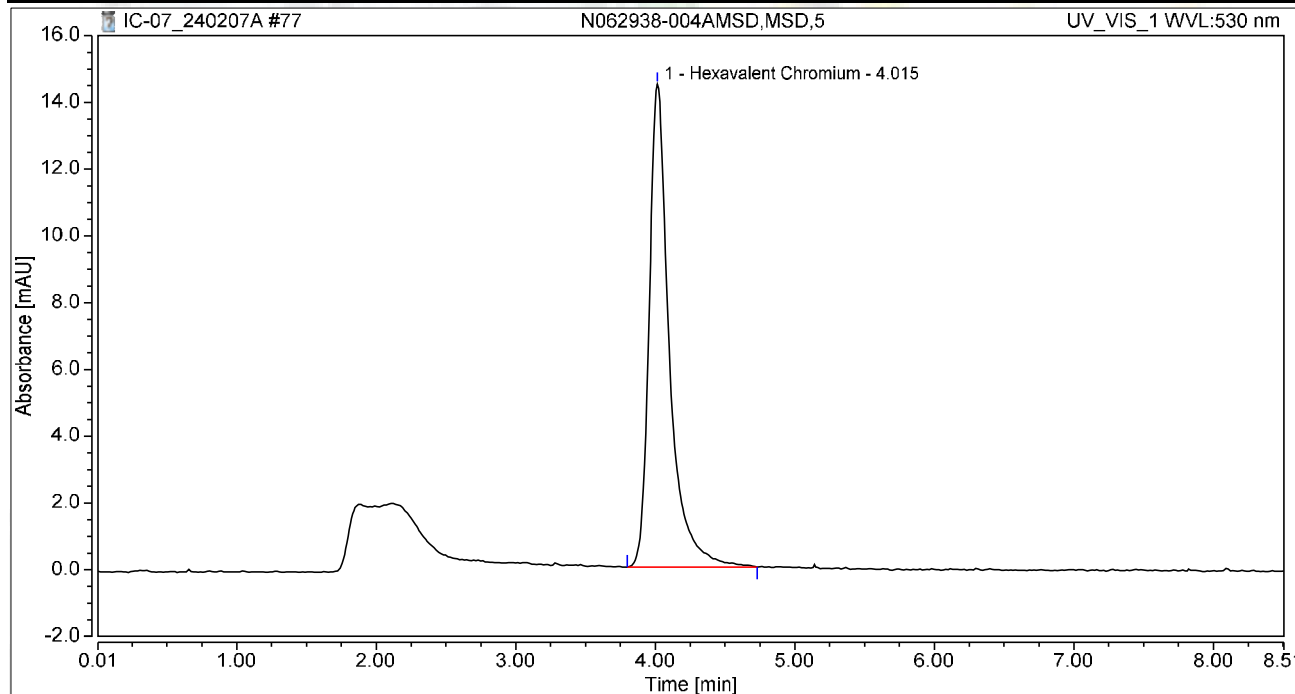
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.719	16.930	100.00	100.00	12.6386
Total:			2.719	16.930	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-004AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

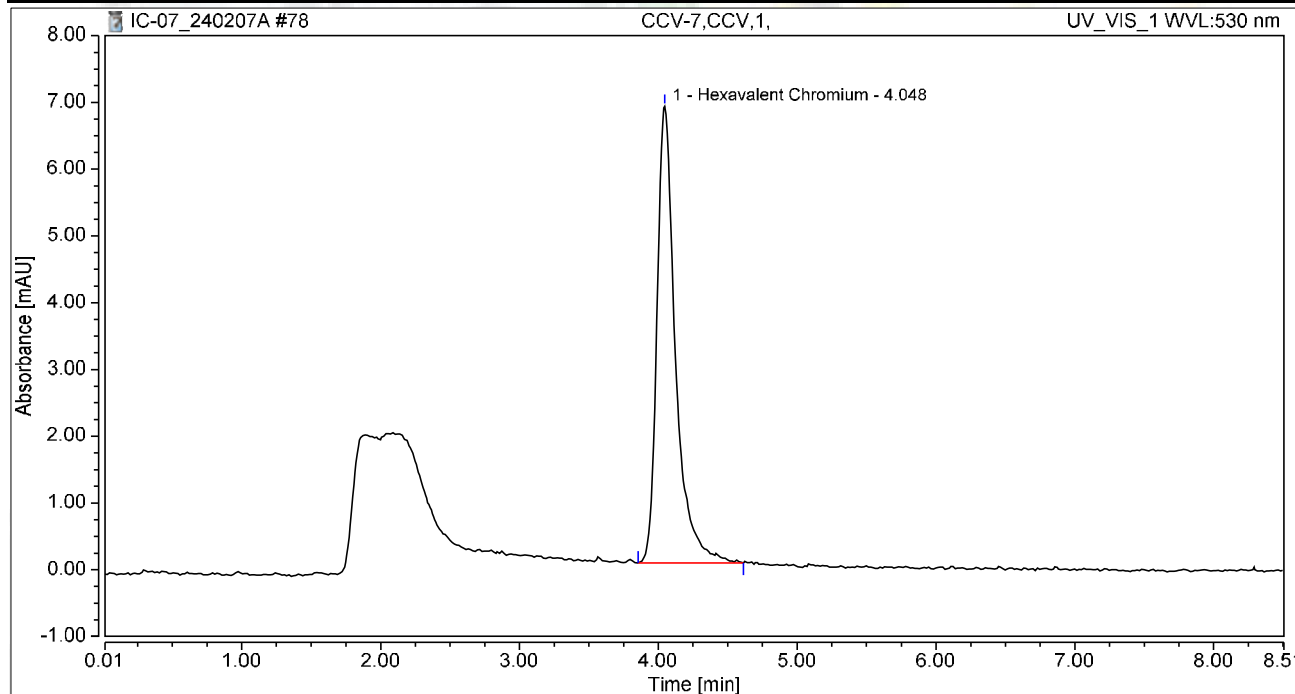
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.429	14.460	100.00	100.00	11.2904
Total:			2.429	14.460	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

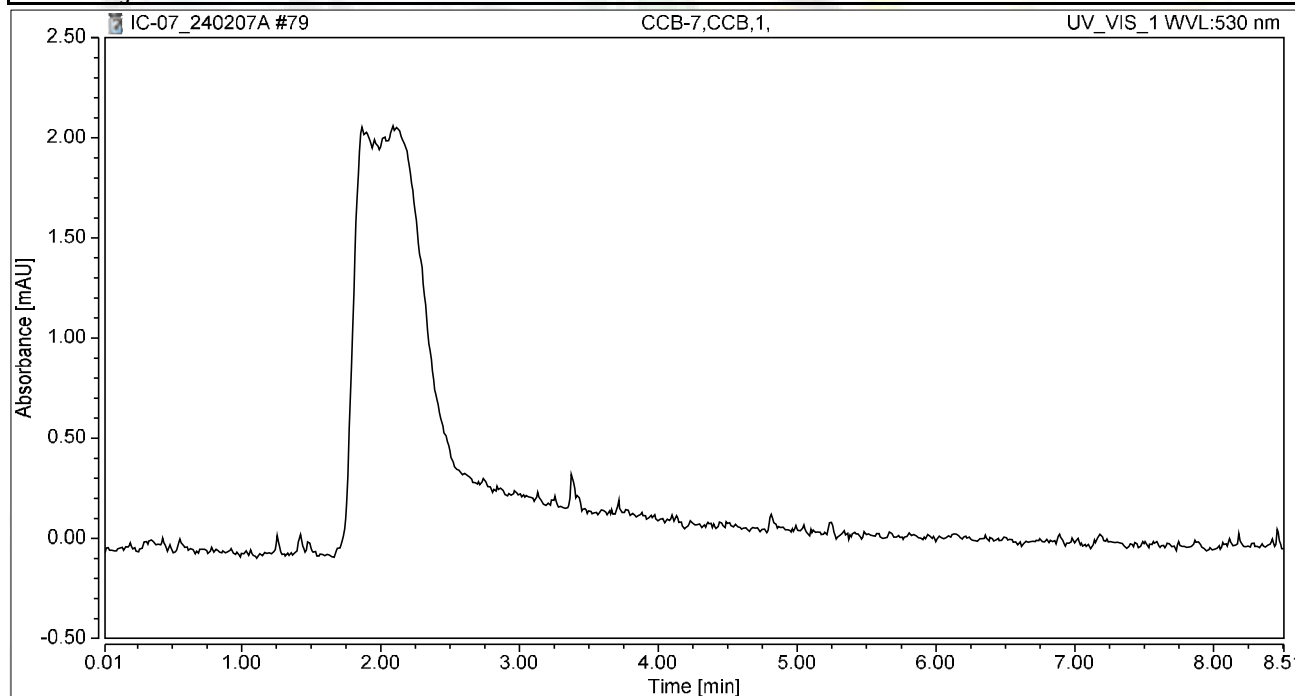
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.061	6.843	100.00	100.00	4.9318
Total:			1.061	6.843	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:22	Sample Weight:	1.0000

Chromatogram



Integration Results

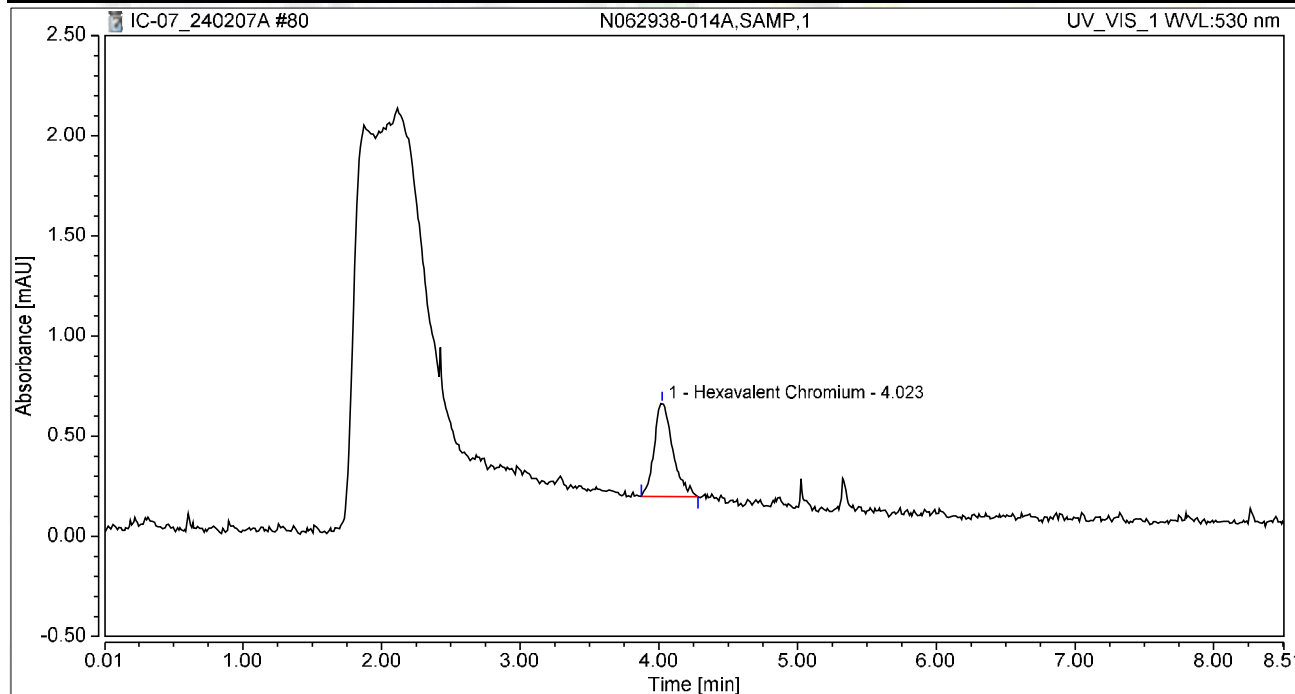
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:31	Sample Weight:	1.0000

Chromatogram



Integration Results

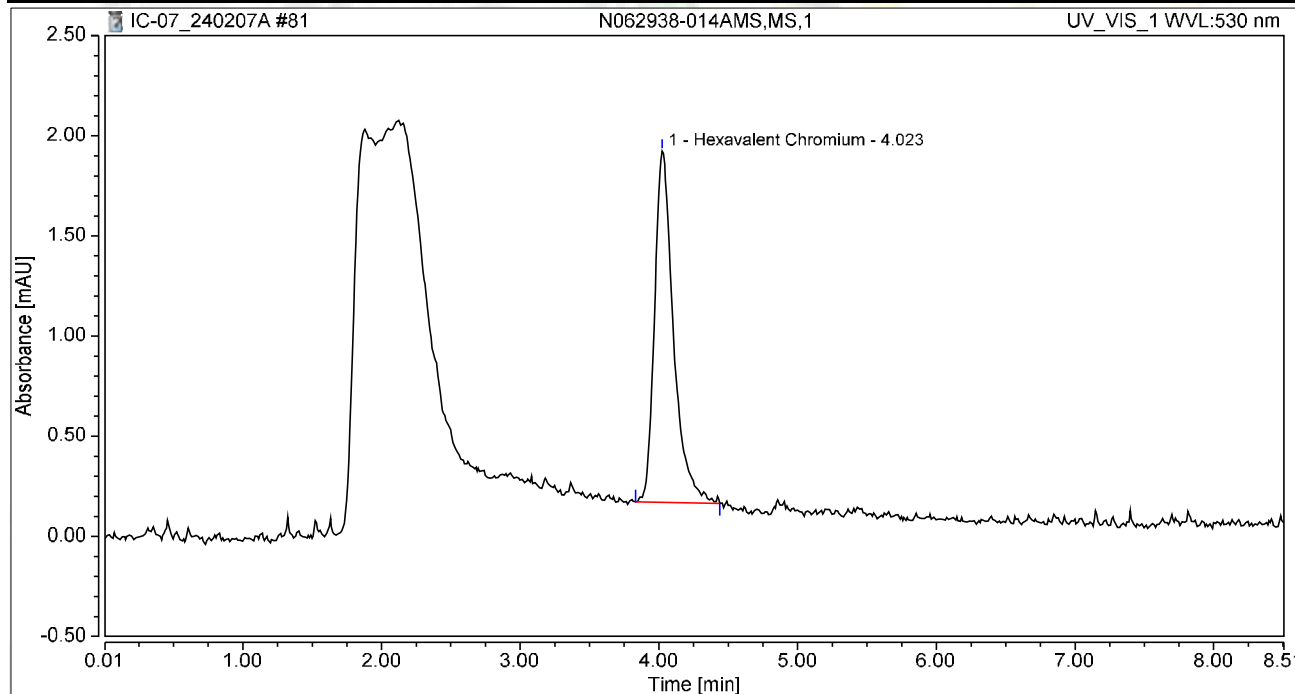
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.072	0.463	100.00	100.00	0.3353
Total:			0.072	0.463	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:41	Sample Weight:	1.0000

Chromatogram



Integration Results

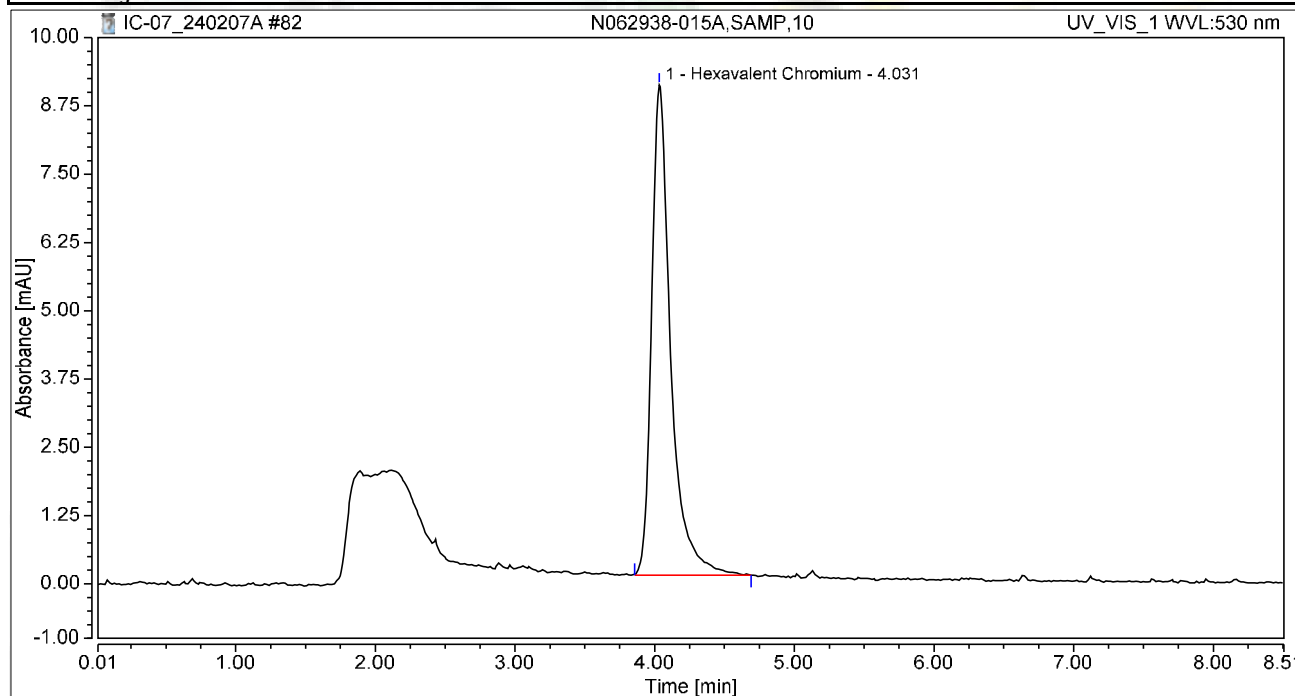
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.278	1.754	100.00	100.00	1.2912
Total:			0.278	1.754	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015A,SAMP,10	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:50	Sample Weight:	1.0000

Chromatogram



Integration Results

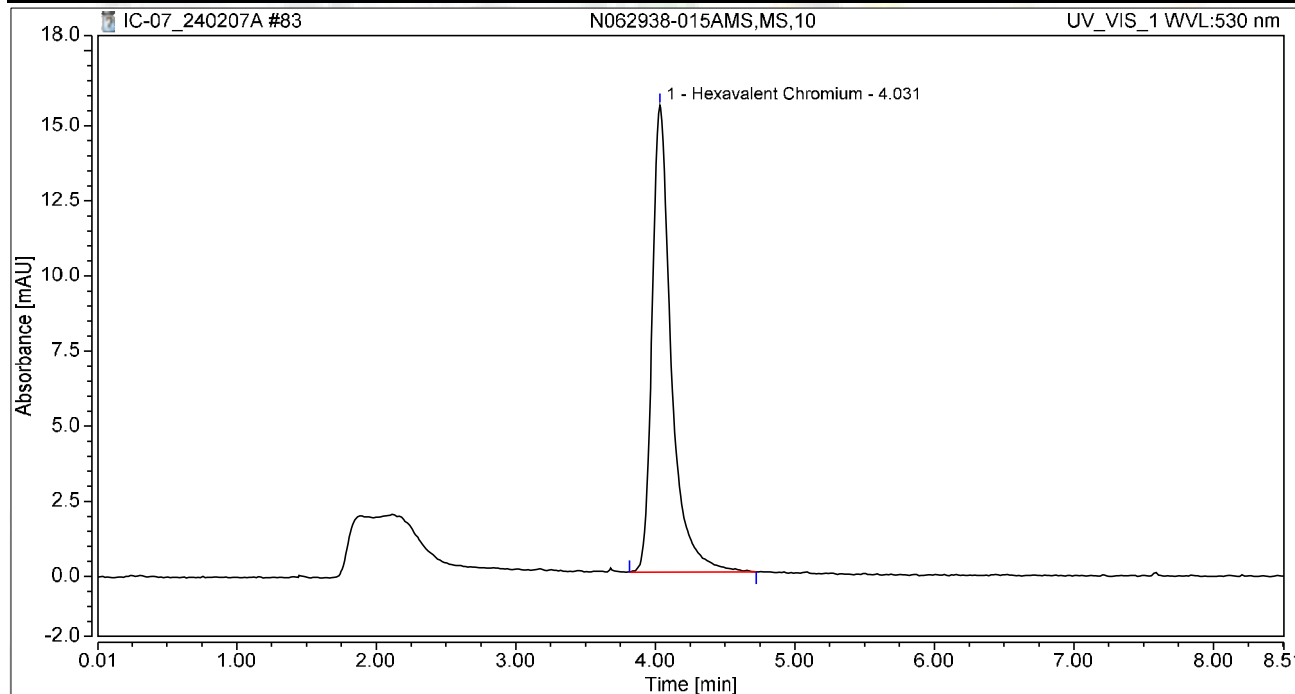
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.428	8.976	100.00	100.00	6.6406
Total:			1.428	8.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-015AMS,MS,10	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 22:59	Sample Weight:	1.0000

Chromatogram



Integration Results

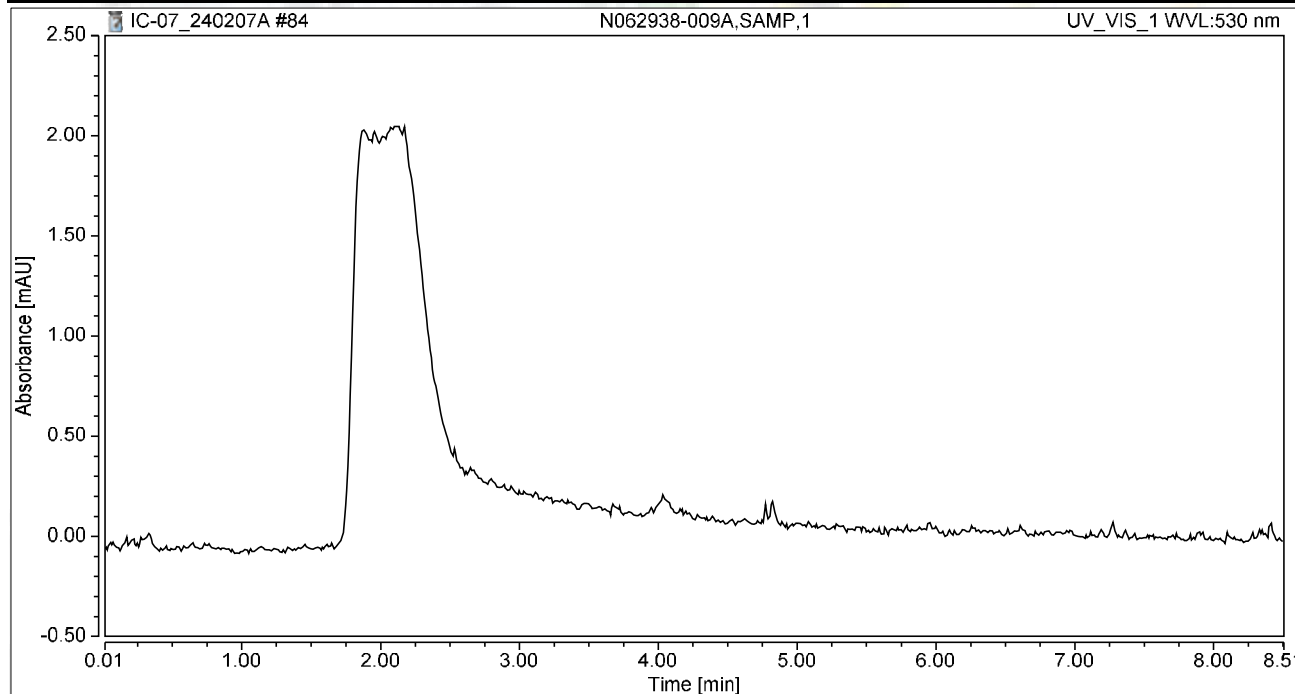
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	2.480	15.538	100.00	100.00	11.5274
Total:			2.480	15.538	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:09	Sample Weight:	1.0000

Chromatogram



Integration Results

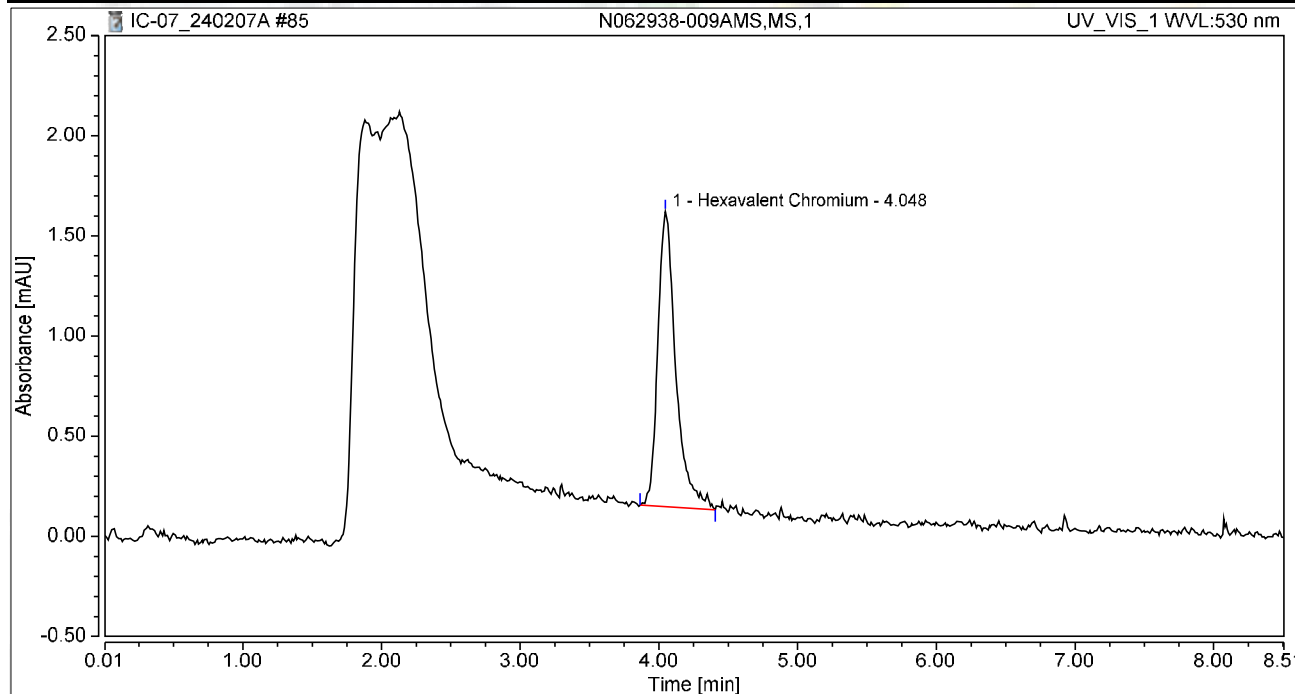
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062938-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:18	Sample Weight:	1.0000

Chromatogram



Integration Results

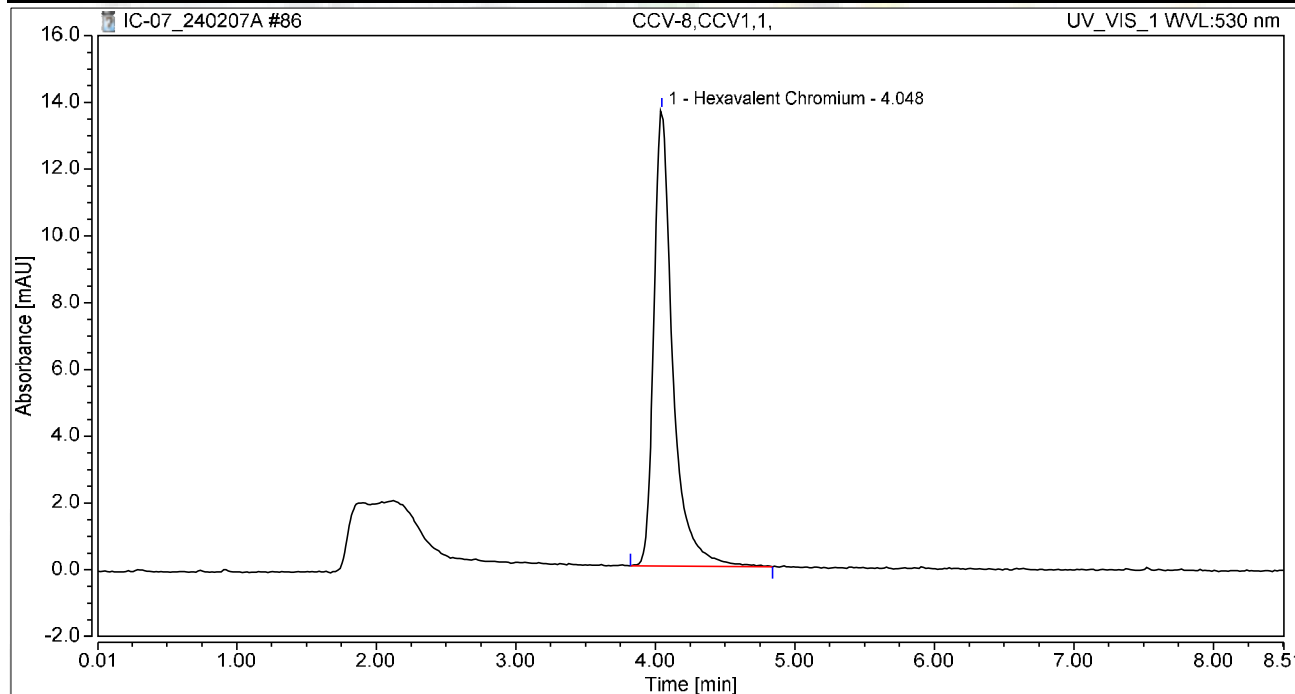
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.222	1.475	100.00	100.00	1.0305
Total:			0.222	1.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:28	Sample Weight:	1.0000

Chromatogram



Integration Results

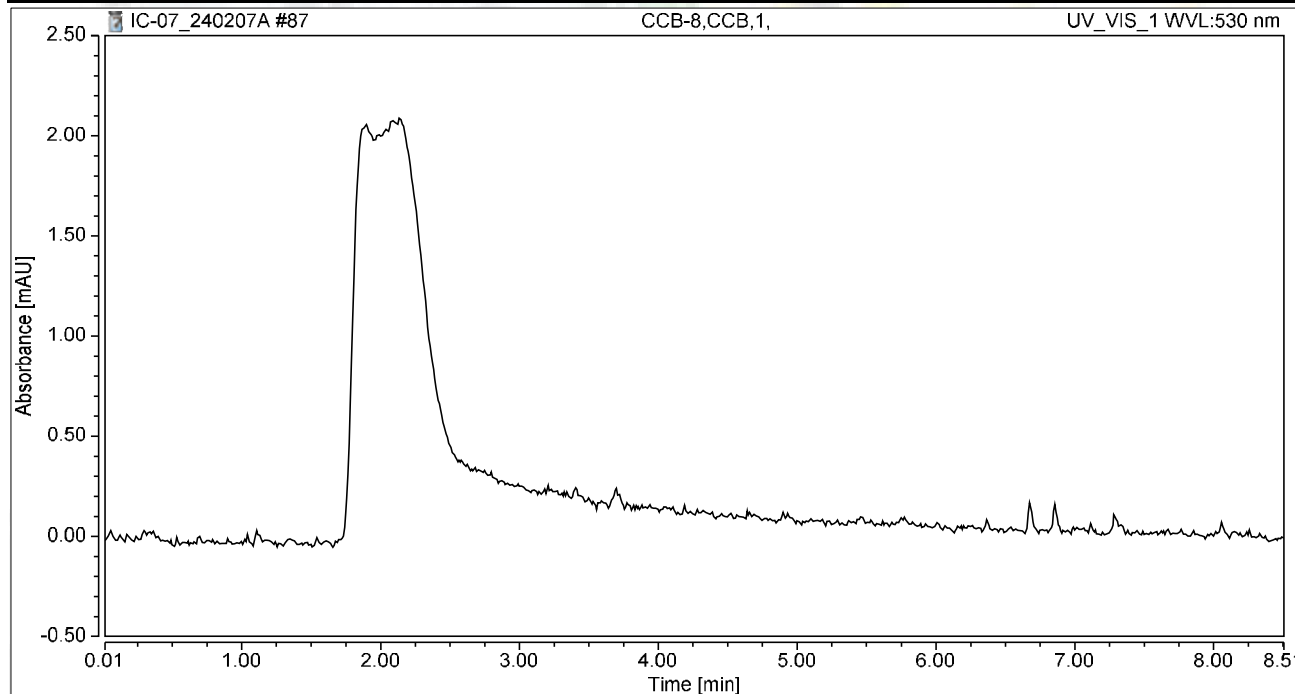
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.134	13.663	100.00	100.00	9.9208
Total:			2.134	13.663	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

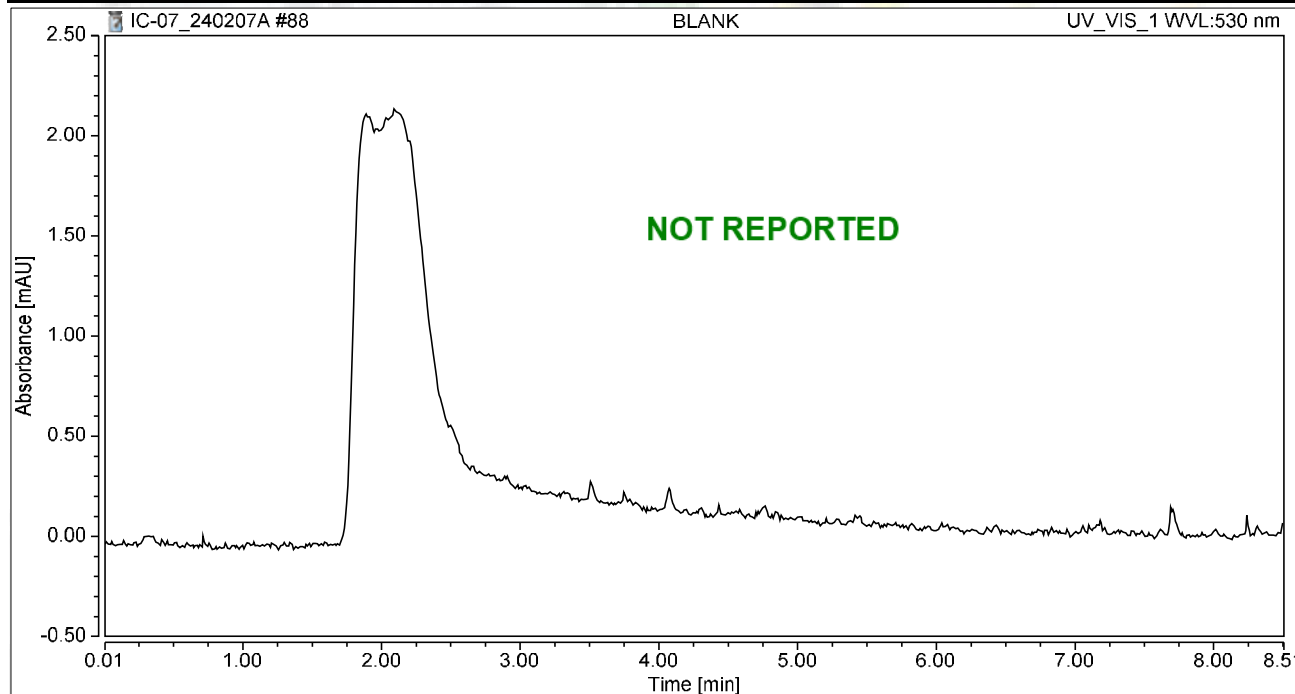
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	07/Feb/24 23:47	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181263
 ASSET #: N062938

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 2/7/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Detection of Sulafte in CCB1/3 was >1/2PQL. However, N062938 samples were >5X the CCB detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 2/20/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181270
 ASSET #: N062938

Instrument ID: IC-09
 Analyst: RBA
 Date Analyzed: 2/7/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer jrb 2/20/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062938-004B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.0552 * 10 \\ &= 0.552\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{0.55}$$

Reviewed by:

d/Rocha 2/25/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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Sequence: IC-08_240124A
Operator: IC-05

Page 1 of 2
Printed: 1/24/2024 5:54:19 PM

Title:
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Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 25

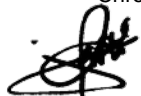
Created: 1/24/2024 9:39:27 AM by IC-05
Last Update: 1/24/2024 11:49:06 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240124	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240124	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240124	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240124	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240124	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240124	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240124	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240124	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240124	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240124	Finished
12	N062498-007A,SAMP,5	Unknown	13	1000.0	Anions Default	EPA 300_0_240124	Finished
13	N062498-007ADUP,DUP,5	Unknown	14	1000.0	Anions Default	EPA 300_0_240124	Finished
14	N062498-007AMS,MS,5	Unknown	15	1000.0	Anions Default	EPA 300_0_240124	Finished
15	N062498-007AMSD,MSD,5	Unknown	16	1000.0	Anions Default	EPA 300_0_240124	Finished
16	LCS-2,LCS,1	Unknown	17	1000.0	Anions Default	EPA 300_0_240124	Finished
17	MB-2,MBLK,1	Unknown	18	1000.0	Anions Default	EPA 300_0_240124	Finished
18	N062498-007A,SAMP,5	Unknown	19	1000.0	Anions Default	EPA 300_0_240124	Finished
19	N062498-007ADUP,DUP,5	Unknown	20	1000.0	Anions Default	EPA 300_0_240124	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240124	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240124	Finished
22	N062498-007AMS,MS,5	Unknown	23	1000.0	Anions Default	EPA 300_0_240124	Finished
23	N062498-007AMSD,MSD,5	Unknown	24	1000.0	Anions Default	EPA 300_0_240124	Finished
24	CCV-2,CCV,1	Unknown	33	1000.0	Anions Default	EPA 300_0_240124	Finished
25	CCB-2,CCB,1	Unknown	34	1000.0	Anions Default	EPA 300_0_240124	Finished

reviewed by:  1/31/2024

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



1/24/2024

IC8 RBA 1/24/2024 5:54:53 PM

244

Sequence: IC-08_240124A
Operator: IC-05

Page 2 of 2
Printed: 1/24/2024 5:54:19 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 25

Created: 1/24/2024 9:39:27 AM by IC-05
Last Update: 1/24/2024 11:49:06 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/24/2024 9:41:36 AM	BLANK
2	Std - 0	1/24/2024 9:56:54 AM	IBLANK
3	Std - 1	1/24/2024 10:32:56 AM	STD-LOW
4	Std - 2	1/24/2024 10:48:14 AM	STD
5	Std - 3	1/24/2024 11:03:32 AM	STD
6	Std - 4	1/24/2024 11:18:50 AM	STD
7	Std - 5	1/24/2024 11:34:08 AM	STD-HIGH
8	ICV,ICV,1	1/24/2024 11:49:26 AM	ICV, IWST-240123B
9	ICB,ICB,1	1/24/2024 12:04:44 PM	CCB
10	MB-H2O,MBLK,1	1/24/2024 12:20:02 PM	MB
11	LCS-H2O,LCS,1	1/24/2024 12:35:19 PM	LCS, IWST-240123B
12	N062498-007A,SAMP,5	1/24/2024 12:50:38 PM	SAMP,2>10mL,
13	N062498-007ADUP,DUP,5	1/24/2024 1:05:56 PM	DUP,2>10mL,
14	N062498-007AMS,MS,5	1/24/2024 1:21:14 PM	MS,2>10mL,
15	N062498-007AMSD,MSD,5	1/24/2024 1:36:33 PM	MSD,2>10mL,
16	LCS-2,LCS,1	1/24/2024 1:51:51 PM	LCS, IWST-240123B
17	MB-2,MBLK,1	1/24/2024 2:07:09 PM	MB
18	N062498-007A,SAMP,5	1/24/2024 2:22:27 PM	SAMP,2>10mL,
19	N062498-007ADUP,DUP,5	1/24/2024 2:37:45 PM	DUP,2>10mL,
20	CCV-1,CCV,1	1/24/2024 2:53:03 PM	CCV, IWST-240123A
21	CCB-1,CCB,1	1/24/2024 3:08:21 PM	CCB
22	N062498-007AMS,MS,5	1/24/2024 3:23:40 PM	MS,2>10mL,
23	N062498-007AMSD,MSD,5	1/24/2024 3:38:58 PM	MSD,2>10mL,
24	CCV-2,CCV,1	1/24/2024 3:54:16 PM	CCV, IWST-240123A
25	CCB-2,CCB,1	1/24/2024 4:09:34 PM	CCB

Sequence: IC-08_240207A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 51

Created: 2/6/2024 9:46:20 AM by IC-05
Last Update: 2/7/2024 1:01:41 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240124	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240124	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240124	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240124	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240124	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240124	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240124	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240124	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240124	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240124	Finished
13	N062938-004B,SAMP,50	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
14	N062938-004BMS,MS,50	Unknown	2	1000.0	Anions Default	EPA 300_0_240124	Finished
15	N062938-004BMSD,MSD,50	Unknown	3	1000.0	Anions Default	EPA 300_0_240124	Finished
16	N062938-007B,SAMP,50	Unknown	4	1000.0	Anions Default	EPA 300_0_240124	Finished
17	N062938-007BDUP,DUP,50	Unknown	5	1000.0	Anions Default	EPA 300_0_240124	Finished
18	N062938-007BMS,MS,50	Unknown	6	1000.0	Anions Default	EPA 300_0_240124	Finished
19	N062938-001B,SAMP,50	Unknown	7	1000.0	Anions Default	EPA 300_0_240124	Finished
20	N062938-002B,SAMP,50	Unknown	8	1000.0	Anions Default	EPA 300_0_240124	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240124	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240124	Finished
23	N062938-003B,SAMP,50	Unknown	11	1000.0	Anions Default	EPA 300_0_240124	Finished
24	N062938-008B,SAMP,50	Unknown	12	1000.0	Anions Default	EPA 300_0_240124	Finished
25	N062938-014B,SAMP,50	Unknown	13	1000.0	Anions Default	EPA 300_0_240124	Finished
26	N062938-005B,SAMP,200	Unknown	14	1000.0	Anions Default	EPA 300_0_240124	Finished
27	N062938-010B,SAMP,20	Unknown	15	1000.0	Anions Default	EPA 300_0_240124	Finished
28	N062938-012B,SAMP,20	Unknown	16	1000.0	Anions Default	EPA 300_0_240124	Finished
29	N062938-013B,SAMP,20	Unknown	17	1000.0	Anions Default	EPA 300_0_240124	Finished
30	N062938-018B,SAMP,20	Unknown	18	1000.0	Anions Default	EPA 300_0_240124	Finished
31	N062938-015B,SAMP,100	Unknown	19	1000.0	Anions Default	EPA 300_0_240124	Finished
32	N062938-016B,SAMP,100	Unknown	20	1000.0	Anions Default	EPA 300_0_240124	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240124	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240124	Finished
35	MB-2,MBLK,1	Unknown	23	1000.0	Anions Default	EPA 300_0_240124	Finished
36	LCS-2,LCS,1	Unknown	24	1000.0	Anions Default	EPA 300_0_240124	Finished
37	N062876-001A,SAMP,5	Unknown	25	1000.0	Anions Default2	EPA 300_0_240124	Finished
38	N062876-002A,SAMP,5	Unknown	26	1000.0	Anions Default2	EPA 300_0_240124	Finished
39	N062876-003A,SAMP,5	Unknown	27	1000.0	Anions Default2	EPA 300_0_240124	Finished
40	N062876-004A,SAMP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240124	Finished
41	N062876-005A,SAMP,5	Unknown	29	1000.0	Anions Default2	EPA 300_0_240124	Finished

Processed by:

reviewed by:  2/11/2024

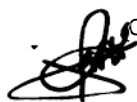
Sequence: IC-08_240207A
Operator: IC-05

Page 2 of 4
Printed: 2/7/2024 11:21:38 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 51

Created: 2/6/2024 9:46:20 AM by IC-05
Last Update: 2/7/2024 1:01:41 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/24/2024 9:41:36 AM	BLANK
2	Std - 0	1/24/2024 9:56:54 AM	IBLANK
3	Std - 1	1/24/2024 10:32:56 AM	STD-LOW
4	Std - 2	1/24/2024 10:48:14 AM	STD
5	Std - 3	1/24/2024 11:03:32 AM	STD
6	Std - 4	1/24/2024 11:18:50 AM	STD
7	Std - 5	1/24/2024 11:34:08 AM	STD-HIGH
8	BLANK	2/7/2024 7:43:28 AM	BLANK
9	CCV-1,CCV,1	2/7/2024 7:58:46 AM	CCV, IWST-240131A
10	CCB-1,CCB,1	2/7/2024 8:14:04 AM	CCB
11	MB-H2O,MBLK,1	2/7/2024 8:29:22 AM	MB
12	LCS-H2O,LCS,1	2/7/2024 8:44:40 AM	LCS, IWST-240131B
13	N062938-004B,SAMP,50	2/7/2024 10:34:28 AM	SAMP,0.2>10mL,
14	N062938-004BMS,MS,50	2/7/2024 10:49:46 AM	MS,0.2>10mL,
15	N062938-004BMSD,MSD,50	2/7/2024 11:05:04 AM	MSD,0.2>10mL,
16	N062938-007B,SAMP,50	2/7/2024 11:20:23 AM	SAMP,0.2>10mL,
17	N062938-007BDUP,DUP,50	2/7/2024 11:35:42 AM	DUP,0.2>10mL,
18	N062938-007BMS,MS,50	2/7/2024 11:51:00 AM	MS,0.2>10mL,
19	N062938-001B,SAMP,50	2/7/2024 12:58:13 PM	SAMP,0.2>10mL,
20	N062938-002B,SAMP,50	2/7/2024 1:13:31 PM	SAMP,0.2>10mL,
21	CCV-2,CCV,1	2/7/2024 1:28:49 PM	CCV, IWST-240131A
22	CCB-2,CCB,1	2/7/2024 1:44:08 PM	CCB
23	N062938-003B,SAMP,50	2/7/2024 1:59:26 PM	SAMP,0.2>10mL,
24	N062938-008B,SAMP,50	2/7/2024 2:14:43 PM	SAMP,0.2>10mL,
25	N062938-014B,SAMP,50	2/7/2024 2:30:01 PM	SAMP,0.2>10mL,
26	N062938-005B,SAMP,200	2/7/2024 2:45:19 PM	SAMP,0.05>10mL,
27	N062938-010B,SAMP,20	2/7/2024 3:00:37 PM	SAMP,0.5>10mL,
28	N062938-012B,SAMP,20	2/7/2024 3:15:55 PM	SAMP,0.5>10mL,
29	N062938-013B,SAMP,20	2/7/2024 3:31:12 PM	SAMP,0.5>10mL,
30	N062938-018B,SAMP,20	2/7/2024 3:46:30 PM	SAMP,0.5>10mL,
31	N062938-015B,SAMP,100	2/7/2024 4:01:48 PM	SAMP,0.1>10mL,
32	N062938-016B,SAMP,100	2/7/2024 4:17:06 PM	SAMP,0.1>10mL,
33	CCV-3,CCV,1	2/7/2024 4:32:25 PM	CCV, IWST-240131A
34	CCB-3,CCB,1	2/7/2024 4:47:43 PM	CCB
35	MB-2,MBLK,1	2/7/2024 5:03:00 PM	MB
36	LCS-2,LCS,1	2/7/2024 5:18:19 PM	LCS, IWST-240131B
37	N062876-001A,SAMP,5	2/7/2024 5:33:37 PM	SAMP,2>10mL,
38	N062876-002A,SAMP,5	2/7/2024 5:55:56 PM	SAMP,2>10mL,
39	N062876-003A,SAMP,5	2/7/2024 6:18:15 PM	SAMP,2>10mL,
40	N062876-004A,SAMP,5	2/7/2024 6:40:33 PM	SAMP,2>10mL,
41	N062876-005A,SAMP,5	2/7/2024 7:02:51 PM	SAMP,2>10mL,



Sequence: IC-08_240207A
Operator: IC-05

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Printed: 2/7/2024 11:21:38 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 51

Created: 2/6/2024 9:46:20 AM by IC-05
Last Update: 2/7/2024 1:01:41 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062876-006A,SAMP,5	Unknown	28	1000.0	Anions Default2	EPA 300_0_240124	Finished
43	N062876-002ADUP,DUP,5	Unknown	29	1000.0	Anions Default2	EPA 300_0_240124	Finished
44	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_240124	Finished
45	CCV-4,CCV,1	Unknown	28	1000.0	Anions Default	EPA 300_0_240124	Finished
46	CCB-4,CCB,1	Unknown	29	1000.0	Anions Default	EPA 300_0_240124	Finished
47	N062876-001AMS,MS,5	Unknown	30	1000.0	Anions Default2	EPA 300_0_240124	Finished
48	N062876-001AMSD,MSD,5	Unknown	30	1000.0	Anions Default2	EPA 300_0_240124	Finished
49	BLANK	Unknown	31	1000.0	Anions Default	EPA 300_0_240124	Finished
50	CCV-5,CCV,1	Unknown	30	1000.0	Anions Default	EPA 300_0_240124	Finished
51	CCB-5,CCB,1	Unknown	31	1000.0	Anions Default	EPA 300_0_240124	Finished

Sequence: IC-08_240207A
Operator: IC-05

Page 4 of 4
Printed: 2/7/2024 11:21:38 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 51

Created: 2/6/2024 9:46:20 AM by IC-05
Last Update: 2/7/2024 1:01:41 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N062876-006A,SAMP,5	2/7/2024 7:25:09 PM	SAMP,2>10mL,
43	N062876-002ADUP,DUP,5	2/7/2024 7:47:27 PM	DUP,2>10mL,
44	BLANK	2/7/2024 8:09:45 PM	BLANK
45	CCV-4,CCV,1	2/7/2024 8:25:03 PM	CCV, IWST-240131A
46	CCB-4,CCB,1	2/7/2024 8:40:21 PM	CCB
47	N062876-001AMS,MS,5	2/7/2024 8:55:40 PM	MS,2>10mL,
48	N062876-001AMSD,MSD,5	2/7/2024 9:17:58 PM	MSD,2>10mL,
49	BLANK	2/7/2024 9:40:16 PM	BLANK
50	CCV-5,CCV,1	2/7/2024 9:55:34 PM	CCV, IWST-240131A
51	CCB-5,CCB,1	2/7/2024 10:10:52 PM	CCB

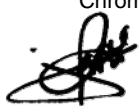
Sequence: IC-09_240123A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 40
Created: 1/23/2024 10:31:24 AM by IC-05
Last Update: 1/23/2024 3:11:46 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	MB-H2O,MBLK,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	LCS-H2O,LCS,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	N062306-006A,SAMP,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062306-020A,SAMP,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062306-008A,SAMP,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062306-025A,SAMP,1	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062306-006A,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062306-006A,SAMP,50	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062306-020A,SAMP,5	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062306-025ADUP,DUP,1	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	CCV-1,CCV,1	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCB-1,CCB,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	N062306-008A,SAMP,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062306-008AMS,MS,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
24	N062306-008AMSD,MSD,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
25	N062306-006ADUP,DUP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240123A	Finished
26	N062306-006AMS,MS,5	Unknown	18	1000.0	Anions_Default	EPA 300_0_240123A	Finished
27	N062306-006AMSD,MSD,5	Unknown	19	1000.0	Anions_Default	EPA 300_0_240123A	Finished
28	N062306-006ADUP,DUP,50	Unknown	20	1000.0	Anions_Default	EPA 300_0_240123A	Finished
29	N062306-006AMS,MS,50	Unknown	21	1000.0	Anions_Default	EPA 300_0_240123A	Finished
30	N062306-006AMSD,MSD,50	Unknown	22	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062306-020ADUP,DUP,5	Unknown	23	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	CCV-2,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCB-2,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	N062306-020AMS,MS,5	Unknown	26	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062306-020AMSD,MSD,5	Unknown	27	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062306-025AMS,MS,1	Unknown	28	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	N062306-025AMSD,MSD,1	Unknown	29	1000.0	Anions_Default	EPA 300_0_240123A	Finished
38	N062306-008ADUP,DUP,1	Unknown	30	1000.0	Anions_Default	EPA 300_0_240123A	Finished
39	CCV-3,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240123A	Finished
40	CCB-3,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Processed by:

reviewed by:  2/1/2024



Sequence: IC-09_240123A
Operator: IC-05

Page 2 of 2
Printed: 1/23/2024 9:48:09 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 40
Created: 1/23/2024 10:31:24 AM by IC-05
Last Update: 1/23/2024 3:11:46 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/23/2024 10:32:41 AM	BLANK
2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	ICV,ICV,1	1/23/2024 12:23:59 PM	ICV, IWST-240123B
9	ICB,ICB,1	1/23/2024 12:39:55 PM	CCB
10	MB-H2O,MBLK,1	1/23/2024 1:31:28 PM	MB
11	LCS-H2O,LCS,1	1/23/2024 1:46:47 PM	LCS IWST-240123B
12	N062306-006A,SAMP,1	1/23/2024 2:02:42 PM	SAMP,10mL,
13	N062306-020A,SAMP,1	1/23/2024 2:18:38 PM	SAMP,10mL,
14	N062306-008A,SAMP,1	1/23/2024 2:34:34 PM	SAMP,10mL,
15	N062306-025A,SAMP,1	1/23/2024 2:50:30 PM	SAMP,10mL,
16	N062306-006A,SAMP,5	1/23/2024 3:06:26 PM	SAMP,2>10mL,
17	N062306-006A,SAMP,50	1/23/2024 3:22:22 PM	SAMP,0.2>10mL,
18	N062306-020A,SAMP,5	1/23/2024 3:38:18 PM	SAMP,2>10mL,
19	N062306-025ADUP,DUP,1	1/23/2024 3:54:13 PM	DUP,10mL,
20	CCV-1,CCV,1	1/23/2024 4:10:09 PM	CCV, IWST-240123A
21	CCB-1,CCB,1	1/23/2024 4:26:05 PM	CCB
22	N062306-008A,SAMP,1	1/23/2024 4:42:01 PM	SAMP,10mL,
23	N062306-008AMS,MS,1	1/23/2024 4:57:56 PM	MS,5>10mL,
24	N062306-008AMSD,MSD,1	1/23/2024 5:13:52 PM	MSD,5>10mL,
25	N062306-006ADUP,DUP,5	1/23/2024 5:29:48 PM	DUP,2>10mL,
26	N062306-006AMS,MS,5	1/23/2024 5:45:44 PM	MS,2>10mL,
27	N062306-006AMSD,MSD,5	1/23/2024 6:01:39 PM	MSD,2>10mL,
28	N062306-006ADUP,DUP,50	1/23/2024 6:17:35 PM	DUP,0.2>10mL,
29	N062306-006AMS,MS,50	1/23/2024 6:33:31 PM	MS,0.2>10mL,
30	N062306-006AMSD,MSD,50	1/23/2024 6:49:27 PM	MSD,0.2>10mL,
31	N062306-020ADUP,DUP,5	1/23/2024 7:05:23 PM	DUP,2>10mL,
32	CCV-2,CCV,1	1/23/2024 7:21:19 PM	CCV, IWST-240123A
33	CCB-2,CCB,1	1/23/2024 7:37:15 PM	CCB
34	N062306-020AMS,MS,5	1/23/2024 7:53:11 PM	MS,2>10mL,
35	N062306-020AMSD,MSD,5	1/23/2024 8:09:07 PM	MSD,2>10mL,
36	N062306-025AMS,MS,1	1/23/2024 8:25:03 PM	MS,10mL,
37	N062306-025AMSD,MSD,1	1/23/2024 8:40:59 PM	MSD,10mL,
38	N062306-008ADUP,DUP,1	1/23/2024 8:56:55 PM	DUP,10mL,
39	CCV-3,CCV,1	1/23/2024 9:12:51 PM	CCV, IWST-240123A
40	CCB-3,CCB,1	1/23/2024 9:28:47 PM	CCB

Sequence: IC-09_240207A
Operator: IC-05

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Printed: 2/7/2024 7:11:20 PM

Title:

Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 38

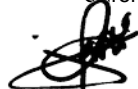
Created: 2/6/2024 10:14:18 AM by IC-05
Last Update: 2/7/2024 11:53:34 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062938-004B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062938-004BMS,MS,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062938-004BMSD,MSD,10	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062938-007B,SAMP,10	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062938-007BDUP,DUP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062938-007BMS,MS,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062938-010B,SAMP,5	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	N062938-012B,SAMP,5	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCV-2,CCV,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	CCB-2,CCB,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062938-013B,SAMP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240123A	Finished
24	N062938-017B,SAMP,5	Unknown	18	1000.0	Anions_Default	EPA 300_0_240123A	Finished
25	N062938-018B,SAMP,5	Unknown	19	1000.0	Anions_Default	EPA 300_0_240123A	Finished
26	N062938-001B,SAMP,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240123A	Finished
27	N062938-002B,SAMP,10	Unknown	21	1000.0	Anions_Default	EPA 300_0_240123A	Finished
28	N062938-003B,SAMP,10	Unknown	22	1000.0	Anions_Default	EPA 300_0_240123A	Finished
29	N062938-005B,SAMP,10	Unknown	23	1000.0	Anions_Default	EPA 300_0_240123A	Finished
30	N062938-006B,SAMP,10	Unknown	24	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062938-008B,SAMP,10	Unknown	25	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	N062938-014B,SAMP,10	Unknown	26	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCV-3,CCV,1	Unknown	27	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	CCB-3,CCB,1	Unknown	28	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062938-015B,SAMP,10	Unknown	29	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062938-016B,SAMP,10	Unknown	30	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	CCV-4,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240123A	Finished
38	CCB-4,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240123A	Finished

reviewed by:  2/12/2024

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



2/7/2024

IC9 RBA 2/7/2024 7:11:39 PM

252

Sequence: IC-09_240207A
Operator: IC-05

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Printed: 2/7/2024 7:11:20 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 38

Created: 2/6/2024 10:14:18 AM by IC-05
Last Update: 2/7/2024 11:53:34 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/23/2024 10:32:41 AM	BLANK
2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	BLANK	2/7/2024 9:15:37 AM	BLANK
9	CCV-1,CCV,1	2/7/2024 9:30:55 AM	CCV, IWST-240131A
10	CCB-1,CCB,1	2/7/2024 9:46:50 AM	CCB
11	MB-H2O,MBLK,1	2/7/2024 10:02:46 AM	MB
12	LCS-H2O,LCS,1	2/7/2024 10:18:42 AM	LCS IWST-240131B
13	N062938-004B,SAMP,10	2/7/2024 10:34:38 AM	SAMP,1>10mL,
14	N062938-004BMS,MS,10	2/7/2024 10:50:07 AM	MS,1>10mL,
15	N062938-004BMSD,MSD,10	2/7/2024 11:06:03 AM	MSD,1>10mL,
16	N062938-007B,SAMP,10	2/7/2024 11:21:59 AM	SAMP,1>10mL,
17	N062938-007BDUP,DUP,10	2/7/2024 11:37:54 AM	DUP,1>10mL,
18	N062938-007BMS,MS,10	2/7/2024 11:56:42 AM	MS,1>10mL,
19	N062938-010B,SAMP,5	2/7/2024 12:12:36 PM	SAMP,2>10mL,
20	N062938-012B,SAMP,5	2/7/2024 12:28:32 PM	SAMP,2>10mL,
21	CCV-2,CCV,1	2/7/2024 12:47:35 PM	CCV, IWST-240131A
22	CCB-2,CCB,1	2/7/2024 1:03:29 PM	CCB
23	N062938-013B,SAMP,5	2/7/2024 1:19:24 PM	SAMP,2>10mL,
24	N062938-017B,SAMP,5	2/7/2024 1:35:20 PM	SAMP,2>10mL,
25	N062938-018B,SAMP,5	2/7/2024 1:51:16 PM	SAMP,2>10mL,
26	N062938-001B,SAMP,10	2/7/2024 2:07:11 PM	SAMP,1>10mL,
27	N062938-002B,SAMP,10	2/7/2024 2:23:06 PM	SAMP,1>10mL,
28	N062938-003B,SAMP,10	2/7/2024 2:39:02 PM	SAMP,1>10mL,
29	N062938-005B,SAMP,10	2/7/2024 2:54:58 PM	SAMP,1>10mL,
30	N062938-006B,SAMP,10	2/7/2024 3:10:54 PM	SAMP,1>10mL,
31	N062938-008B,SAMP,10	2/7/2024 3:26:50 PM	SAMP,1>10mL,
32	N062938-014B,SAMP,10	2/7/2024 3:42:45 PM	SAMP,1>10mL,
33	CCV-3,CCV,1	2/7/2024 3:58:41 PM	CCV, IWST-240131A
34	CCB-3,CCB,1	2/7/2024 4:14:37 PM	CCB
35	N062938-015B,SAMP,10	2/7/2024 4:30:33 PM	SAMP,1>10mL,
36	N062938-016B,SAMP,10	2/7/2024 4:46:29 PM	SAMP,1>10mL,
37	CCV-4,CCV,1	2/7/2024 5:02:25 PM	CCV, IWST-240131A
38	CCB-4,CCB,1	2/7/2024 5:18:21 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-09
Date Calibrated: 1/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0190	0.0945	0.1921	0.4821	1.0068	1.000
Measured, in mg/L	0.000000	0.066800	0.254200	0.496300	1.215600	2.517200	
Relative Error (%RE)		33.6%		-0.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/24/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0468	0.1991	0.4062	1.0440	2.1777	1.000
Measured, in mg/L	0.000000	0.645000	2.037100	3.930800	9.761300	20.125900	
Relative Error (%RE)		29.0%		-1.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ICV	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 1/24/2024	SeqNo: 5674050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.088	0.50	4.000	0	102	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCV	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.128	0.50	4.000	0	103	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCV	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.980	0.50	4.000	0	99.5	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCV	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674076						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.971	0.50	4.000	0	99.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: ICV	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 1/23/2024	SeqNo: 5674160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.273 0.050 1.250 0 102 90 110

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCV	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.251 0.050 1.250 0 100 90 110

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCV	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.246 0.050 1.250 0 99.6 90 110

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCV	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674186						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.239 0.050 1.250 0 99.1 90 110

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCV	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.245 0.050 1.250 0 99.6 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: ICB	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 1/24/2024	SeqNo: 5674051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCB	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCB	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181263						
Client ID: CCB	Batch ID: R181263	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674077						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: ICB	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 1/23/2024	SeqNo: 5674161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCB	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCB	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCB	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674187						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181270						
Client ID: CCB	Batch ID: R181270	TestNo: EPA 300.0		Analysis Date: 2/7/2024	SeqNo: 5674191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	

RETENTION TIME SUMMARY



ASSET LABORATORIES
MULTI-PHASE CHEMISTRY SOLUTIONS FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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RETENTION TIME (RT) SUMMARY

Instrument ID: IC-09

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 7.354	
CCV-1	Nitrate 7.237	
CCV-2	Nitrate 7.247	
CCV-3	Nitrate 7.251	
CCV-4	Nitrate 7.257	

Average 7.248

Applied RT Window 7.048 - 7.448

MB-R181270_NO3	Nitrate	N.A.	N.A.
LCS-R181270_NO3	Nitrate	7.257	PASS
N062938-004B	Nitrate	7.227	PASS
N062938-004BMS	Nitrate	7.237	PASS
N062938-004BMSD	Nitrate	7.251	PASS
N062938-007B	Nitrate	N.A.	N.A.
N062938-007BDUP	Nitrate	N.A.	N.A.
N062938-007BMS	Nitrate	7.244	PASS
N062938-010B	Nitrate	N.A.	N.A.
N062938-012B	Nitrate	N.A.	N.A.
N062938-013B	Nitrate	7.251	PASS
N062938-017B	Nitrate	7.261	PASS
N062938-018B	Nitrate	7.267	PASS
N062938-001B	Nitrate	N.A.	N.A.
N062938-002B	Nitrate	7.267	PASS
N062938-003B	Nitrate	7.261	PASS
N062938-005B	Nitrate	7.277	PASS
N062938-006B	Nitrate	7.261	PASS
N062938-008B	Nitrate	N.A.	N.A.
N062938-014B	Nitrate	7.257	PASS
N062938-015B	Nitrate	7.257	PASS
N062938-016B	Nitrate	7.264	PASS

Reviewed by:

d/Recha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 2/7/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.334	
CCV-1	Sulfate	10.240	
CCV-2	Sulfate	10.184	
CCV-3	Sulfate	10.190	

Average 10.205

Applied RT Window 10.005 - 10.405

MB-R181263_SO4	Sulfate	N.A.	N.A.
LCS-R181263_SO4	Sulfate	10.307	PASS
N062938-004B	Sulfate	10.227	PASS
N062938-004BMS	Sulfate	10.230	PASS
N062938-004BMSD	Sulfate	10.223	PASS
N062938-007B	Sulfate	10.187	PASS
N062938-007BDUP	Sulfate	10.240	PASS
N062938-007BMS	Sulfate	10.190	PASS
N062938-001B	Sulfate	10.190	PASS
N062938-002B	Sulfate	10.230	PASS
N062938-003B	Sulfate	10.213	PASS
N062938-008B	Sulfate	10.190	PASS
N062938-014B	Sulfate	10.200	PASS
N062938-005B	Sulfate	10.173	PASS
N062938-010B	Sulfate	10.227	PASS
N062938-012B	Sulfate	10.167	PASS
N062938-013B	Sulfate	10.220	PASS
N062938-018B	Sulfate	10.223	PASS
N062938-015B	Sulfate	10.190	PASS
N062938-016B	Sulfate	10.167	PASS

Reviewed by:

d/Rocha 2/25/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106671
 ASSET #: N062938

Instrument ID: ICP-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/7/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 02062024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062938-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.03972 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 39.72$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{40}$$

Reviewed by:

d/Rocha 2/21/2024

% RSD SUMMARY



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RSD SUMMARY: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	5.2	15	PASS
Standard1	ICAL	1	Fe	0.02	0.75	15	PASS
Standard2	ICAL	1	Fe	0.05	0.74	15	PASS
Standard3	ICAL	1	Fe	2	0.43	15	PASS
Standard4	ICAL	1	Fe	5	0.1	15	PASS
Standard5	ICAL	1	Fe	7.5	0.21	15	PASS
Standard6	ICAL	1	Fe	10	0.07	15	PASS
Standard7	ICAL	1	Fe	20	0.01	15	PASS
ICV	ICV	1	Fe	10.08	0.28	15	PASS
ICB	ICB	1	Fe	0	60.64	15	<PQL
LLICV1	CCV1	1	Fe	0.02	2.16	20	PASS
ICSA1	ICSA	1	Fe	168.74	0.04	15	PASS
ICSAB1	ICSAB	1	Fe	171.86	0.02	15	PASS
RINSE	RINSE	1	Fe	0	73.52	15	<PQL
CCV1	CCV	1	Fe	10.09	0.19	15	PASS
CCB1	CCB	1	Fe	0	72.86	15	<PQL
CCV2	CCV	1	Fe	10.07	0.25	15	PASS
CCB2	CCB	1	Fe	0	43.73	15	<PQL
ICSA2	ICSA	1	Fe	168.88	0.03	15	PASS
ICSAB2	ICSAB	1	Fe	172.32	0.01	15	PASS
MB-106671	MBLK	1	Fe	0	123.33	15	<PQL
LCS-106671	LCS	1	Fe	0.1	0.22	15	PASS
N062938-001C	SAMP	1	Fe	0.04	1.54	15	PASS
N062938-002C	SAMP	1	Fe	0	13.25	15	PASS
N062938-003C	SAMP	1	Fe	0	31.18	15	<PQL
N062938-004C	SAMP	1	Fe	0	63.36	15	<PQL
N062938-004C	SAMP	5	Fe	0	240.87	15	<PQL
N062398-004C-PS	PS	1	Fe	0.09	0.73	15	PASS
N062398-004CMS	MS	1	Fe	0.11	1.03	15	PASS
N062398-004CMSD	MSD	1	Fe	0.1	0.64	15	PASS
CCV3 938	CCV	1	Fe	10.18	0.12	15	PASS
CCB3	CCB	1	Fe	0	49.13	15	<PQL
N062938-005C	SAMP	1	Fe	1.88	0.29	15	PASS
N062938-006C	SAMP	1	Fe	0.06	1.55	15	PASS
N062938-007C	SAMP	1	Fe	0.05	1.52	15	PASS
N062938-008C	SAMP	1	Fe	0.02	1.66	15	PASS
N062938-010C	SAMP	1	Fe	0.43	0.4	15	PASS
N062938-012C	SAMP	1	Fe	0.01	5.23	15	PASS
N062938-013C	SAMP	1	Fe	0.02	1.34	15	PASS
N062938-014C	SAMP	1	Fe	0	12.65	15	PASS
N062938-015C	SAMP	1	Fe	0.01	3.65	15	PASS
N062938-016C	SAMP	1	Fe	0	63.33	15	<PQL

dRecha 2/21/2024
for DBJ **273**

RSD SUMMARY: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCV4	CCV	1	Fe	10.12	0.58	15	PASS
CCB4	CCB	1	Fe	0	55.65	15	<PQL
N062938-017C	SAMP	1	Fe	0.39	0.52	15	PASS
N062938-018C	SAMP	1	Fe	0.32	0.81	15	PASS
CCV5	CCV	1	Fe	10.11	0.29	15	PASS
CCB5	CCB	1	Fe	0	50.65	15	<PQL
ICSA3	ICSA	1	Fe	169.44	0.08	15	PASS
ICSAB3	ICSAB	1	Fe	172.7	0	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240207A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	02/07/2024	12:10:49 PM
2	Standard1	ICAL	1	02/07/2024	12:14:31 PM
3	Standard2	ICAL	1	02/07/2024	12:18:14 PM
4	Standard3	ICAL	1	02/07/2024	12:21:57 PM
5	Standard4	ICAL	1	02/07/2024	12:25:12 PM
6	Standard5	ICAL	1	02/07/2024	12:28:27 PM
7	Standard6	ICAL	1	02/07/2024	12:31:39 PM
8	Standard7	ICAL	1	02/07/2024	12:34:53 PM
310	ICV	ICV	1	02/07/2024	12:41:25 PM
1	ICB	ICB	1	02/07/2024	12:44:45 PM
2	LLICV1	CCV1	1	02/07/2024	12:48:28 PM
9	ICSA1	ICSA	1	02/07/2024	12:52:12 PM
10	ICSAB1	ICSAB	1	02/07/2024	12:56:54 PM
299	RINSE	RINSE	1	02/07/2024	01:07:29 PM
11	MB-106653	MBLK	1	02/07/2024	01:11:16 PM
12	LCS-106653	LCS	1	02/07/2024	01:14:59 PM
13	N062844-001D	SAMP	1	02/07/2024	01:18:43 PM
14	N062911-001C	SAMP	1	02/07/2024	01:23:00 PM
15	N062911-002C	SAMP	1	02/07/2024	01:28:27 PM
16	N062911-003C	SAMP	1	02/07/2024	01:33:46 PM
17	N062911-003C	SAMP	5	02/07/2024	01:39:05 PM
18	N062911-003C-PS	PS	1	02/07/2024	01:43:20 PM
19	N062911-003CMS	MS	1	02/07/2024	01:48:40 PM
7	CCV1	CCV	1	02/07/2024	01:54:00 PM
1	CCB1	CCB	1	02/07/2024	01:57:15 PM
20	N062911-003CMSD	MSD	1	02/07/2024	02:00:58 PM
21	N062911-004C	SAMP	1	02/07/2024	02:06:19 PM
22	N062911-006C	SAMP	1	02/07/2024	02:10:37 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
23	N062911-007C	SAMP	1	02/07/2024	02:15:28 PM
24	N062911-008C	SAMP	1	02/07/2024	02:20:47 PM
25	N062911-009C	SAMP	1	02/07/2024	02:26:07 PM
26	N062911-011C	SAMP	1	02/07/2024	02:29:52 PM
12	LCS-106653	LCS	1	02/07/2024	02:35:19 PM
7	CCV2	CCV	1	02/07/2024	02:39:03 PM
1	CCB2	CCB	1	02/07/2024	02:42:17 PM
9	ICSA2	ICSA	1	02/07/2024	02:45:59 PM
10	ICSAB2	ICSAB	1	02/07/2024	02:50:40 PM
35	MB-106671	MBLK	1	02/07/2024	03:14:41 PM
36	LCS-106671	LCS	1	02/07/2024	03:18:24 PM
37	N062938-001C	SAMP	1	02/07/2024	03:22:08 PM
38	N062938-002C	SAMP	1	02/07/2024	03:27:27 PM
39	N062938-003C	SAMP	1	02/07/2024	03:32:55 PM
40	N062938-004C	SAMP	1	02/07/2024	03:38:22 PM
41	N062938-004C	SAMP	5	02/07/2024	03:43:42 PM
42	N062938-004C-PS	PS	1	02/07/2024	03:47:57 PM
43	N062938-004CMS	MS	1	02/07/2024	03:53:17 PM
44	N062938-004CMSD	MSD	1	02/07/2024	03:58:38 PM
7	CCV3 938	CCV	1	02/07/2024	04:03:59 PM
1	CCB3	CCB	1	02/07/2024	04:07:12 PM
45	N062938-005C	SAMP	1	02/07/2024	04:10:55 PM
46	N062938-006C	SAMP	1	02/07/2024	04:15:46 PM
47	N062938-007C	SAMP	1	02/07/2024	04:21:15 PM
48	N062938-008C	SAMP	1	02/07/2024	04:26:35 PM
49	N062938-010C	SAMP	1	02/07/2024	04:30:52 PM
50	N062938-012C	SAMP	1	02/07/2024	04:34:07 PM
51	N062938-013C	SAMP	1	02/07/2024	04:38:25 PM
52	N062938-014C	SAMP	1	02/07/2024	04:42:42 PM
53	N062938-015C	SAMP	1	02/07/2024	04:48:03 PM
54	N062938-016C	SAMP	1	02/07/2024	04:53:31 PM
7	CCV4	CCV	1	02/07/2024	04:58:59 PM
1	CCB4	CCB	1	02/07/2024	05:02:13 PM
55	N062938-017C	SAMP	1	02/07/2024	05:05:56 PM
56	N062938-018C	SAMP	1	02/07/2024	05:09:13 PM
7	CCV5	CCV	1	02/07/2024	05:14:04 PM
1	CCB5	CCB	1	02/07/2024	05:17:18 PM
9	ICSA3	ICSA	1	02/07/2024	05:21:01 PM
10	ICSAB3	ICSAB	1	02/07/2024	05:25:42 PM

d/Rocha 2/21/2024
for DBJ

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/7/2024 11:00:00 AM

Reviewed/ Date: d/Rocha 2/21/2024

Page: 1 of 2

Prep End Date: 2/7/2024 3:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106671 Prep Code:3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-02-26

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106671	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106671	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062938-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15257	HYDROCHLORIC ACID
16149	NITIRC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/7/2024 11:00:00 AM

Reviewed/ Date: DRocha 2/21/2024

Page: 2 of 2

Prep End Date: 2/7/2024 3:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 106671 Prep Code: 3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-02-26

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062938-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15257	HYDROCHLORIC ACID
16149	NITIRC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A		0.5
MWST-240105Y	ICP Solution B		0.5
MWST-240105Z	ICP Solution C		0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 240207A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	02/07/2024	12:10:49 PM	Fe	273.952	112	0.00	mg/L	
Standard1	02/07/2024	12:14:31 PM	Fe	273.952	261	0.02	mg/L	
Standard2	02/07/2024	12:18:14 PM	Fe	273.952	788	0.05	mg/L	
Standard3	02/07/2024	12:21:57 PM	Fe	273.952	25894	2.0	mg/L	
Standard4	02/07/2024	12:25:12 PM	Fe	273.952	64367	5.0	mg/L	
Standard5	02/07/2024	12:28:27 PM	Fe	273.952	96285	7.5	mg/L	
Standard6	02/07/2024	12:31:39 PM	Fe	273.952	129542	10.0	mg/L	
Standard7	02/07/2024	12:34:53 PM	Fe	273.952	257094	20.0	mg/L	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673823							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10083.269	20	10000	0	101	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ZZZZZ	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673825							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.879	20	20.00	0	104	80	120				

Sample ID CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10091.978	20	10000	0	101	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673847							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10067.319	20	10000	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10178.574	20	10000	0	102	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10123.336	20	10000	0	101	90	110				
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Sample ID CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCV	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10108.907	20	10000	0	101	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.635 20

Sample ID CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673838						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.191 20

Sample ID CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.180 20

Sample ID CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.329 20

Sample ID CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.271 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: CCB	Batch ID: R181269	TestNo: EPA 6010B		Analysis Date: 2/7/2024	SeqNo: 5673878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1.543	20									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673826							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	534601.602	50	500000	0	107	80	120				
Calcium	444258.074	500	500000	0	88.9	80	120				
Iron	168740.285	20	200000	0	84.4	80	120				
Magnesium	440167.387	100	500000	0	88.0	80	120				

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA B	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673827							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	542009.012	50	500000	0	108	80	120				
Calcium	451368.357	500	500000	0	90.3	80	120				
Iron	171862.778	20	200000	0	85.9	80	120				
Magnesium	450652.167	100	500000	0	90.1	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673849							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	529619.978	50	500000	0	106	80	120				
Calcium	444936.054	500	500000	0	89.0	80	120				
Iron	168878.888	20	200000	0	84.4	80	120				
Magnesium	440184.161	100	500000	0	88.0	80	120				

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA B	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673850							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	542827.080	50	500000	0	109	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSAB	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673850							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	454218.792	500	500000	0	90.8	80	120				
Iron	172322.674	20	200000	0	86.2	80	120				
Magnesium	451087.766	100	500000	0	90.2	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSA	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	520763.482	50	500000	0	104	80	120				
Calcium	447987.188	500	500000	0	89.6	80	120				
Iron	169436.381	20	200000	0	84.7	80	120				
Magnesium	440389.546	100	500000	0	88.1	80	120				

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181269						
Client ID: ICSAB	Batch ID: R181269	TestNo: EPA 6010B	Analysis Date: 2/7/2024	SeqNo: 5673880							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	530324.323	50	500000	0	106	80	120				
Calcium	454528.855	500	500000	0	90.9	80	120				
Iron	172704.960	20	200000	0	86.4	80	120				
Magnesium	450885.331	100	500000	0	90.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	0.99	98.87	65-125	PASS
Standard2	ICAL	1	0.98	98.43	65-125	PASS
Standard3	ICAL	1	0.98	98.19	65-125	PASS
Standard4	ICAL	1	0.98	97.8	65-125	PASS
Standard5	ICAL	1	0.97	97.22	65-125	PASS
Standard6	ICAL	1	0.96	96.03	65-125	PASS
Standard7	ICAL	1	0.95	95.08	65-125	PASS
ICV	ICV	1	0.97	96.55	65-125	PASS
ICB	ICB	1	0.99	98.6	65-125	PASS
LLICV1	CCV1	1	0.98	97.69	65-125	PASS
ICSA1	ICSA	1	0.82	81.61	65-125	PASS
ICSAB1	ICSAB	1	0.81	80.99	65-125	PASS
RINSE	RINSE	1	1.02	101.56	65-125	PASS
CCV1	CCV	1	0.97	96.64	65-125	PASS
CCB1	CCB	1	0.99	98.62	65-125	PASS
CCV2	CCV	1	0.96	96.34	65-125	PASS
CCB2	CCB	1	0.99	98.79	65-125	PASS
ICSA2	ICSA	1	0.82	81.68	65-125	PASS
ICSAB2	ICSAB	1	0.82	81.51	65-125	PASS
MB-106671	MBLK	1	0.98	98.17	65-125	PASS
LCS-106671	LCS	1	0.98	97.6	65-125	PASS
N062938-001C	SAMP	1	0.8	80.42	65-125	PASS
N062938-002C	SAMP	1	0.79	78.65	65-125	PASS
N062938-003C	SAMP	1	0.77	77.06	65-125	PASS
N062938-004C	SAMP	1	0.78	77.58	65-125	PASS
N062938-004C	SAMP	5	0.88	88.37	65-125	PASS
N062396-004C-PS	PS	1	0.77	77.15	65-125	PASS
N062396-004CMS	MS	1	0.77	77.34	65-125	PASS
N062396-004CMSD	MSD	1	0.77	77.48	65-125	PASS
CCV3 ⁹³⁸	CCV	1	0.98	97.77	65-125	PASS
CCB3	CCB	1	1	100.29	65-125	PASS
N062938-005C	SAMP	1	0.73	72.52	65-125	PASS
N062938-006C	SAMP	1	0.77	76.61	65-125	PASS
N062938-007C	SAMP	1	0.78	78.17	65-125	PASS
N062938-008C	SAMP	1	0.79	79.34	65-125	PASS
N062938-010C	SAMP	1	0.9	89.7	65-125	PASS
N062938-012C	SAMP	1	0.93	93.49	65-125	PASS
N062938-013C	SAMP	1	0.93	93.49	65-125	PASS
N062938-014C	SAMP	1	0.91	90.98	65-125	PASS
N062938-015C	SAMP	1	0.82	82.12	65-125	PASS

INTERNAL STANDARD: 240207A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N062938-016C	SAMP	1	0.73	73.49	65-125	PASS
CCV4	CCV	1	0.97	96.97	65-125	PASS
CCB4	CCB	1	0.99	99.47	65-125	PASS
N062938-017C	SAMP	1	0.8	80.22	65-125	PASS
N062938-018C	SAMP	1	0.94	93.92	65-125	PASS
CCV5	CCV	1	0.98	97.58	65-125	PASS
CCB5	CCB	1	1	99.76	65-125	PASS
ICSA3	ICSA	1	0.82	82.33	65-125	PASS
ICSAB3	ICSAB	1	0.82	81.82	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N62938
Test Method: EPA 6010B
Analysis Date: 2/7/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106671

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062938-004C DT 5x	Iron	Fe	µg/L	0	NA	0		10

Reviewed by:

d/Rocha 2/21/2024

Note: NA - Not Applicable

02/21/24 17:32

DT_EPA 6010B_N62938_106671

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID	N062938-004C-PS	SampType:	PS	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:		RunNo:	181269		
Client ID:	ZZZZZZ	Batch ID:	106671	TestNo:	EPA 6010B EPA 3010A			Analysis Date:	2/7/2024	SeqNo:	5673858		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		93.667		20	100.0	0	93.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B **Matrix:** WATER
Digestion Method: EPA 3010A **Units :** ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23
Analysis Date: 5/7-23/23
Instrument Name: ICP-03
Analyst/Technician: Nancy Sibucac / Diane Jetajobe

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



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300

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106670
 ASSET #: N062938

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/7/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 % RSD of As in N062938-004C/008C failed. For re run
 Mn is OLR in N062938-012C/ 013C/ 018C. For dilution
 % Rec of Mn and Mo in several IQCs failed. However, IQCs that enclosed samples passed criteria

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/20/2024

Date:
 Date:



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106672 106670
 ASSET #: N062938

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/8/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As re run for N062938-004C/008C
 Mn dilution for N062938-012C/013C/018C

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/20/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Chromium concentration, in ug/L in the original sample as follows:

$$\text{Chromium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062938-001C**, the concentration in ug/L is calculated as follows:


$$\text{Chromium, ug/L} = 1.58279 * 1 * (25 / 25)$$

$$\text{Chromium, ug/L} = 1.58279$$

Reporting results in two significant figures,

$$\text{Chromium, ug/L} = 1.6$$

Reviewed by:

 3/3/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	11.018	15	PASS	0.06	52.378	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	4.416	15	PASS	0.41	6.383	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	0.889	15	PASS	4.76	1.301	15	PASS
Std4-10/100 ppb	ICAL	1	9.76	1.713	15	PASS	9.48	1.725	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.91	0.756	15	PASS	19.17	0.132	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.42	0.481	15	PASS	38.82	2.216	15	PASS
Std7-100/1000 ppb	ICAL	1	98.32	0.474	15	PASS	97.98	1.39	15	PASS
Std8-200/2000 ppb	ICAL	1	201.09	0.656	15	PASS	201.36	0.703	15	PASS
ICV	ICV	1	10.21	1.302	15	PASS	10.37	1.781	15	PASS
ICB	ICB	1	0.01	77.623	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.02	7.115	20	PASS	1.01	4.46	20	PASS
MLCCV	CCV	1	19.07	2.148	15	PASS	19.31	1.107	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	21.42	1.325	15	PASS	20.42	0.734	15	PASS
LLICV1	LLICV	1	1.04	6.153	20	PASS	1.02	3.149	20	PASS
CCV1	CCV	1	21.28	2.614	15	PASS	20.38	1.689	15	PASS
CCB1	CCB	1	0.01	120.424	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	21.41	1.482	15	PASS	20.36	1.189	15	PASS
CCB2	CCB	1	0.01	102.173	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	21.66	0.324	15	PASS	20.55	1.396	15	PASS
CCV3	CCV	1	20.03	0.66	15	PASS	19.21	1.904	15	PASS
CCB3	CCB	1	0.01	54.435	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.9	1.094	15	PASS	19.22	1.407	15	PASS
CCB4	CCB	1	0.01	82.634	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.78	0.758	15	PASS	19.21	1.48	15	PASS
CCB5	CCB	1	0.01	76.993	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.49	0.989	15	PASS	19.25	0.88	15	PASS
CCB6	CCB	1	0.01	51.83	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.47	1.468	15	PASS	19.11	2.467	15	PASS
CCB7	CCB	1	0.01	175.992	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.43	1.813	15	PASS	19.51	2.969	15	PASS
CCB8	CCB	1	0.02	25.656	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	21.35	0.402	15	PASS	20.37	0.565	15	PASS
CCV9	CCV	1	19.74	0.381	15	PASS	19.46	0.828	15	PASS
CCB9	CCB	1	0.01	76.829	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.57	2.289	15	PASS	19.24	1.686	15	PASS
CCB10	CCB	1	0	327.893	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.81	2.253	15	PASS	19.03	0.428	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.01	61.146	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	21.52	1.086	15	PASS	20.56	1.569	15	PASS
CCV12	CCV	1	20.19	0.591	15	PASS	19.29	0.48	15	PASS
CCB12	CCB	1	0	272.119	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	21.67	1.606	15	PASS	20.64	1.196	15	PASS
CCV13	CCV	1	20.17	1.072	15	PASS	19.25	0.759	15	PASS
CCB13	CCB	1	0	491.727	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	20.09	0.586	15	PASS	19.45	1.641	15	PASS
CCB14	CCB	1	0.01	101.765	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.6	1.668	15	PASS	21.11	0.682	15	PASS
MB-106670	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106670	LCS	1	10.66	0.37	15	PASS	10.19	2.615	15	PASS
N062938-001C	SAMP	1	15.36	1.246	15	PASS	1.58	3.728	15	PASS
N062938-002C	SAMP	1	157.32	0.491	15	PASS	18.4	0.915	15	PASS
N062938-003C	SAMP	1	157.42	0.599	15	PASS	18.79	1.291	15	PASS
N062938-004C	SAMP	1	50.14	0.972	15	PASS	32.77	1.016	15	PASS
N062938-004C	SAMP	5	10.23	2.161	15	PASS	6.55	2.143	15	PASS
N062938-004C-PS	PS	1	59.73	0.445	15	PASS	41.58	2.082	15	PASS
N062938-004C-MS	MS	1	58.98	0.287	15	PASS	40.98	2.4	15	PASS
CCV15	CCV	1	20.06	1.196	15	PASS	19.44	0.972	15	PASS
CCB15	CCB	1	0.01	124.787	15	<PQL	<0.000	N/A	15	<PQL
N062938-004C-MSD	MSD	1	59.19	0.657	15	PASS	41.2	2.219	15	PASS
N062938-005C	SAMP	1	65.81	1.797	15	PASS	0.31	4.524	15	PASS
N062938-006C	SAMP	1	49.62	0.77	15	PASS	0.32	3.667	15	PASS
N062938-007C	SAMP	1	31.65	1.192	15	PASS	0.25	13.403	15	PASS
N062938-008C	SAMP	1	39.71	0.383	15	PASS	0.06	26.965	15	<PQL
N062938-010C	SAMP	1	27.76	1.468	15	PASS	0.06	10.086	15	PASS
N062938-012C	SAMP	1	148.58	0.667	15	PASS	0.19	10.591	15	PASS
N062938-013C	SAMP	1	51.16	1.196	15	PASS	0.46	7.107	15	PASS
N062938-014C	SAMP	1	33.24	1.842	15	PASS	0.36	5.829	15	PASS
CCV16	CCV	1	20.13	1.711	15	PASS	19.56	0.892	15	PASS
CCB16	CCB	1	0.01	338.481	15	<PQL	<0.000	N/A	15	<PQL
N062938-015C	SAMP	1	34.11	1.33	15	PASS	66.7	1.502	15	PASS
N062938-016C	SAMP	1	36.16	0.119	15	PASS	178.68	1.76	15	PASS
N062938-017C	SAMP	1	237.03	1.01	15	PASS	0.74	6.208	15	PASS
N062938-017C	SAMP	10	24.86	0.431	15	PASS	0	178.441	15	<PQL
N062938-018C	SAMP	1	45.55	0.521	15	PASS	0.65	1.383	15	PASS
CCV17	CCV	1	20.24	0.993	15	PASS	19.31	1.385	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB17	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	21.77	0.462	15	PASS	21.04	0.898	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	33.523	15	<PQL	0.08	6.622	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.48	1.978	15	PASS	0.45	13.544	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	3.598	15	PASS	4.5	8.526	15	PASS
Std4-10/100 ppb	ICAL	1	9.57	3.759	15	PASS	10.11	0.556	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.25	0.839	15	PASS	19.49	8.225	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.71	1.955	15	PASS	39.94	1.465	15	PASS
Std7-100/1000 ppb	ICAL	1	98.35	0.605	15	PASS	99.44	1.877	15	PASS
Std8-200/2000 ppb	ICAL	1	201.19	1.445	15	PASS	200.35	0.427	15	PASS
ICV	ICV	1	104.03	0.287	15	PASS	10.56	0.569	15	PASS
ICB	ICB	1	0.01	123.814	15	<PQL	0.02	102.048	15	<PQL
LLICV1	LLICV	1	0.54	4.003	20	PASS	0.09	27.4	20	<PQL
MLCCV	CCV	1	19.1	2.038	15	PASS	19.39	3.076	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	114.701	15	<PQL
ICSAB1	ICSAB	1	16.81	1.761	15	PASS	21.28	2.268	15	PASS
LLICV1	LLICV	1	0.53	3.145	20	PASS	0.16	25.073	20	NR!
CCV1	CCV	1	16.97	2.409	15	PASS	21.46	2.006	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	16.97	1.971	15	PASS	21.35	3.163	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	137.918	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	17.01	0.81	15	PASS	20.99	2.628	15	PASS
CCV3	CCV	1	19.19	2.382	15	PASS	19.66	3.56	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.21	1.624	15	PASS	19.24	4.597	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.23	1.685	15	PASS	19.13	0.649	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19	1.123	15	PASS	18.96	2.84	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.16	1.277	15	PASS	19.43	2.482	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0	799.324	15	<PQL
CCV8	CCV	1	19.24	1.568	15	PASS	19.43	1.837	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	16.98	1.804	15	PASS	21.28	0.714	15	PASS
CCV9	CCV	1	19.47	1.1	15	PASS	19.19	3.99	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.02	1.234	15	PASS	19.16	2.131	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.01	0.765	15	PASS	18.91	4.166	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	<0.000	N/A	15	<PQL	0	5857.037	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	16.75	0.609	15	PASS	20.97	0.647	15	PASS
CCV12	CCV	1	19.19	0.709	15	PASS	19.42	2.284	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.02	121.63	15	<PQL
ICSAB5	ICSAB	1	16.88	1.997	15	PASS	21.06	2.149	15	PASS
CCV13	CCV	1	19.16	2.419	15	PASS	18.75	0.363	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	19.01	2.106	15	PASS	18.84	0.705	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.73	1.017	15	PASS	21.23	1.49	15	PASS
MB-106670	MBLK	1	<0.000	N/A	15	<PQL	0	1805.654	15	<PQL
LCS-106670	LCS	1	99.81	2.574	15	PASS	10.03	3.768	15	PASS
N062938-001C	SAMP	1	74.14	2.215	15	PASS	2.28	13.357	15	PASS
N062938-002C	SAMP	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062938-003C	SAMP	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062938-004C	SAMP	1	26.19	2.169	15	PASS	0.78	48.264	15	NR!
N062938-004C	SAMP	5	5.31	0.571	15	PASS	0.16	62.501	15	NR!
N062938-004C-PS	PS	1	117.11	1.331	15	PASS	10.64	1.922	15	PASS
N062938-004C-MS	MS	1	118.42	1.33	15	PASS	11.2	5.552	15	PASS
CCV15	CCV	1	18.82	0.754	15	PASS	19.1	5.041	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062938-004C-MSD	MSD	1	118.32	2.255	15	PASS	11.06	2.786	15	PASS
N062938-005C	SAMP	1	128.57	1.547	15	PASS	1.16	14.343	15	PASS
N062938-006C	SAMP	1	131.99	1.901	15	PASS	<0.000	N/A	15	<PQL
N062938-007C	SAMP	1	50.25	3.063	15	PASS	<0.000	N/A	15	<PQL
N062938-008C	SAMP	1	25.87	0.737	15	PASS	0.38	108.273	15	NR!
N062938-010C	SAMP	1	144.54	2.343	15	PASS	1.78	4.03	15	PASS
N062938-012C	SAMP	1	181.7	1.225	15	PASS	16.04	7.659	15	PASS
N062938-013C	SAMP	1	206.78	0.604	15	PASS	1.78	9.619	15	PASS
N062938-014C	SAMP	1	9.72	1.644	15	PASS	1.27	6.176	15	PASS
CCV16	CCV	1	18.83	2.287	15	PASS	18.86	2.646	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062938-015C	SAMP	1	5.27	3.811	15	PASS	<0.000	N/A	15	<PQL
N062938-016C	SAMP	1	16.96	2.338	15	PASS	<0.000	N/A	15	<PQL
N062938-017C	SAMP	1	169.4	0.86	15	PASS	<0.000	N/A	15	<PQL
N062938-017C	SAMP	10	17.55	2.155	15	PASS	<0.000	N/A	15	<PQL
N062938-018C	SAMP	1	606.33	0.736	15	PASS	4.42	5.409	15	PASS
CCV17	CCV	1	18.73	1.19	15	PASS	19	5.543	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB17	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	16.62	2.906	15	PASS	20.71	0.738	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	22.111	15	<PQL	0.08	4.66	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.43	30.202	15	<PQL	0.48	1.134	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	3.658	15	PASS	4.6	2.942	15	PASS
Std4-10/100 ppb	ICAL	1	10.07	3.499	15	PASS	9.51	0.902	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.54	1.796	15	PASS	19	2.298	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.37	0.493	15	PASS	38.43	0.213	15	PASS
Std7-100/1000 ppb	ICAL	1	99.65	0.409	15	PASS	97.14	0.743	15	PASS
Std8-200/2000 ppb	ICAL	1	200.35	0.302	15	PASS	201.88	0.48	15	PASS
ICV	ICV	1	10.39	1.514	15	PASS	10.36	3.026	15	PASS
ICB	ICB	1	0.06	16.538	15	<PQL	0.05	29.501	15	<PQL
LLICV1	LLICV	1	0.46	8.463	20	PASS	0.56	2.731	20	PASS
MLCCV	CCV	1	19.66	4.392	15	PASS	18.85	1.753	15	PASS
ICSA1	ICSA	1	0.02	43.706	15	<PQL	0.05	2.631	15	PASS
ICSAB1	ICSAB	1	20.08	3.14	15	PASS	23.03	0.445	15	PASS
LLICV1	LLICV	1	0.52	29.096	20	NR!	0.54	8.48	20	PASS
CCV1	CCV	1	20.51	2.712	15	PASS	22.79	0.14	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.04	7.911	15	PASS
CCV2	CCV	1	20.46	5.406	15	PASS	22.6	0.133	15	PASS
CCB2	CCB	1	0.01	265.889	15	<PQL	0.05	13.408	15	PASS
ICSA2	ICSA	1	0.01	2.692	15	PASS	0.02	79.911	15	<PQL
ICSAB2	ICSAB	1	19.93	1.948	15	PASS	23.09	1.224	15	PASS
CCV3	CCV	1	18.92	1.374	15	PASS	19.29	0.303	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	18.561	15	<PQL
CCV4	CCV	1	19.46	2.701	15	PASS	18.78	0.137	15	PASS
CCB4	CCB	1	0	15253.692	15	<PQL	0.05	4.025	15	PASS
CCV5	CCV	1	18.92	2.283	15	PASS	19.03	0.893	15	PASS
CCB5	CCB	1	0.03	60.404	15	<PQL	0.03	10.435	15	PASS
CCV6	CCV	1	19.21	2.938	15	PASS	19.02	1.748	15	PASS
CCB6	CCB	1	0.02	85.112	15	<PQL	0.04	1.197	15	PASS
CCV7	CCV	1	19.45	1.818	15	PASS	19.3	1.189	15	PASS
CCB7	CCB	1	0.02	153.443	15	<PQL	0.04	50.99	15	<PQL
CCV8	CCV	1	18.85	1.449	15	PASS	18.84	1.754	15	PASS
CCB8	CCB	1	0.01	2.569	15	PASS	0.04	19.836	15	<PQL
ICSA3	ICSA	1	0.01	163.786	15	<PQL	0.01	26.82	15	<PQL
ICSAB3	ICSAB	1	20.49	1.159	15	PASS	22.86	0.694	15	PASS
CCV9	CCV	1	19.02	0.933	15	PASS	18.97	2.076	15	PASS
CCB9	CCB	1	0.01	339.287	15	<PQL	0.05	30.432	15	<PQL
CCV10	CCV	1	19.13	1.269	15	PASS	18.82	1.614	15	PASS
CCB10	CCB	1	0.01	169.077	15	<PQL	0.05	7.532	15	PASS
CCV11	CCV	1	19.64	3.618	15	PASS	19.09	0.913	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.02	150.158	15	<PQL	0.04	49.991	15	<PQL
ICSA4	ICSA	1	0	6575.659	15	<PQL	0.01	31.548	15	<PQL
ICSAB4	ICSAB	1	20.88	0.93	15	PASS	22.64	0.571	15	PASS
CCV12	CCV	1	19.02	1.662	15	PASS	19.18	1.735	15	PASS
CCB12	CCB	1	0.03	118.388	15	<PQL	0.04	42.318	15	<PQL
ICSA5	ICSA	1	0.01	148.535	15	<PQL	0.02	73.123	15	<PQL
ICSAB5	ICSAB	1	19.95	2.825	15	PASS	22.65	1.59	15	PASS
CCV13	CCV	1	18.82	7.346	15	PASS	19.22	1.207	15	PASS
CCB13	CCB	1	0.01	150.447	15	<PQL	0.05	11.309	15	PASS
CCV14	CCV	1	19.36	2.42	15	PASS	18.96	0.845	15	PASS
CCB14	CCB	1	0.01	309.517	15	<PQL	0.06	23.26	15	<PQL
ICSA6	ICSA	1	0.01	143.659	15	<PQL	0.03	27.95	15	<PQL
ICSAB6	ICSAB	1	20.77	2.002	15	PASS	22.71	2.047	15	PASS
MB-106670	MBLK	1	0.01	143.074	15	<PQL	0.05	10.08	15	PASS
LCS-106670	LCS	1	10.13	3.629	15	PASS	10.08	0.169	15	PASS
N062938-001C	SAMP	1	0.05	48.602	15	<PQL	43.15	0.311	15	PASS
N062938-002C	SAMP	1	0.08	53.267	15	<PQL	3.1	2.14	15	PASS
N062938-003C	SAMP	1	0.15	29.441	15	<PQL	2.97	3.636	15	PASS
N062938-004C	SAMP	1	0.27	13.591	15	PASS	34.92	1.933	15	PASS
N062938-004C	SAMP	5	0.05	86.397	15	<PQL	6.59	0.718	15	PASS
N062938-004C-PS	PS	1	9.32	2.609	15	PASS	45.24	1.851	15	PASS
N062938-004C-MS	MS	1	10.09	4.751	15	PASS	44.61	0.859	15	PASS
CCV15	CCV	1	19.81	3.221	15	PASS	18.97	0.28	15	PASS
CCB15	CCB	1	0.02	85.428	15	<PQL	0.07	5.723	15	PASS
N062938-004C-MSD	MSD	1	9.71	3.655	15	PASS	44.98	2.265	15	PASS
N062938-005C	SAMP	1	1.02	5.131	15	PASS	40.17	0.631	15	PASS
N062938-006C	SAMP	1	0.4	24.879	15	<PQL	20.45	1.196	15	PASS
N062938-007C	SAMP	1	0.02	1.28	15	PASS	9.48	2.348	15	PASS
N062938-008C	SAMP	1	0.01	131.256	15	<PQL	64.96	0.606	15	PASS
N062938-010C	SAMP	1	0.02	55.287	15	<PQL	5.26	1.194	15	PASS
N062938-012C	SAMP	1	0.15	19.75	15	<PQL	34.53	0.739	15	PASS
N062938-013C	SAMP	1	0.04	55.162	15	<PQL	5.57	1.592	15	PASS
N062938-014C	SAMP	1	0.14	31.551	15	<PQL	9.8	1.252	15	PASS
CCV16	CCV	1	19.71	3.379	15	PASS	19.01	0.82	15	PASS
CCB16	CCB	1	0	1155.262	15	<PQL	0.04	5.279	15	PASS
N062938-015C	SAMP	1	27.12	1.739	15	PASS	16.64	1.873	15	PASS
N062938-016C	SAMP	1	0.38	24.27	15	<PQL	9.78	1.964	15	PASS
N062938-017C	SAMP	1	1.2	17.161	15	NR!	56.05	1.92	15	PASS
N062938-017C	SAMP	10	0.13	6.414	15	PASS	5.63	3.101	15	PASS
N062938-018C	SAMP	1	0.05	95.666	15	<PQL	5.22	2.233	15	PASS
CCV17	CCV	1	19.95	0.708	15	PASS	18.58	0.264	15	PASS

PERCENT RSD SUMMARY: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB17	CCB	1	0.01	149.832	15	<PQL	0.04	20.383	15	<PQL
ICSA7	ICSA	1	0.02	145.326	15	<PQL	0.01	49.976	15	<PQL
ICSAB7	ICSAB	1	20.46	4.439	15	PASS	22.41	0.787	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	23.142	15	<PQL	0.07	18.271	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	7.677	15	PASS	0.45	11.686	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	2.555	15	PASS	4.67	2.874	15	PASS
Std4-10/100 ppb	ICAL	1	9.45	3.607	15	PASS	9.46	5.415	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	2.388	15	PASS	18.63	4.193	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.32	1.968	15	PASS	39.07	3.469	15	PASS
Std7-100/1000 ppb	ICAL	1	97.84	0.514	15	PASS	98.03	1.044	15	PASS
Std8-200/2000 ppb	ICAL	1	201.29	3.092	15	PASS	201.34	1.39	15	PASS
ICV	ICV	1	106.03	0.336	15	PASS	10.84	4.327	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	92.181	15	<PQL
LLICV1	LLICV	1	0.53	4.758	20	PASS	0.11	19.185	20	PASS
MLCCV	CCV	1	19.45	2.335	15	PASS	19.5	1.699	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	17.34	0.233	15	PASS	21.41	4.049	15	PASS
CCV1	CCV	1	18.46	2.816	15	PASS	19.84	2.089	15	PASS
CCB1	CCB	1	0	1243.702	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	17.08	1.799	15	PASS	20.7	2.269	15	PASS
CCV2	CCV	1	19.35	1.607	15	PASS	18.96	1.918	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.23	2.81	15	PASS	19.48	1.545	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0	322.314	15	<PQL
CCV4	CCV	1	19.17	2.83	15	PASS	20.3	2.047	15	PASS
CCB4	CCB	1	0	218.569	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.3	1.378	15	PASS	19.93	2.152	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	17.18	1.825	15	PASS	20.93	3.372	15	PASS
N062938-004C	SAMP	1	26.89	0.121	15	PASS	0.98	14.791	15	PASS
N062938-004C	SAMP	5	5.36	4.4	15	PASS	0.1	82.476	15	NR!
N062938-008C	SAMP	1	26.46	1.04	15	PASS	0.45	22.369	15	NR!
N062938-012C	SAMP	10	19.49	0.535	15	PASS	1.74	2.589	15	PASS
N062938-013C	SAMP	10	22.89	0.524	15	PASS	0.25	15.404	15	NR!
N062938-017C	SAMP	1	175.44	2.601	15	PASS	<0.000	N/A	15	<PQL
N062938-018C	SAMP	10	65.81	1.086	15	PASS	0.4	22.436	15	NR!
CCV6	CCV	1	19.01	2.232	15	PASS	19.31	0.852	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062938-004C	SAMP	1	27.3	0.909	15	PASS	0.9	11.97	15	PASS
N062938-008C	SAMP	1	26.79	1.16	15	PASS	0.33	42.492	15	NR!
N062938-017C	SAMP	1	175.56	0.774	15	PASS	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062938-004C	SAMP	1	27.07	2.059	15	PASS	1.03	21.021	15	NR!
N062938-008C	SAMP	1	26.54	3.999	15	PASS	<0.000	N/A	15	<PQL
N062938-017C	SAMP	1	171.09	0.595	15	PASS	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.13	2.989	15	PASS	19.23	2.568	15	PASS
CCB7	CCB	1	0	1245.443	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	16.65	1.593	15	PASS	20.88	2.089	15	PASS
CCV8	CCV	1	19.12	1.341	15	PASS	19.84	1.722	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.27	2.031	15	PASS	19.47	3.456	15	PASS
CCB9	CCB	1	0	86.049	15	<PQL	0	591.274	15	<PQL
CCV10	CCV	1	18.98	1.694	15	PASS	19.37	3.402	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	16.94	1.921	15	PASS	20.3	1.302	15	PASS
N062938-004C	SAMP	1	27.21	1.163	15	PASS	0.97	7.571	15	PASS
N062938-008C	SAMP	1	26.5	1.984	15	PASS	0.19	44.322	15	NR!
N062938-017C	SAMP	1	175.71	2.212	15	PASS	<0.000	N/A	15	<PQL
N062938-004C	SAMP	1	27.17	1.4	15	PASS	1.13	11.662	15	PASS
N062938-008C	SAMP	1	26.59	0.815	15	PASS	0.03	185.65	15	<PQL
N062938-017C	SAMP	1	174.4	1.663	15	PASS	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.05	0.798	15	PASS	19.35	3.259	15	PASS
CCB11	CCB	1	0.01	171.294	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.77	0.493	15	PASS	20.59	2.393	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240207A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207001.d	RINSE	ICAL	1	02/07/24 1:04 PM
A0207002.d	RINSE	ICAL	1	02/07/24 1:09 PM
A0207003.d	Cal Blk	IBLK	1	02/07/24 1:14 PM
A0207004.d	Std1-0.1/1 ppb	ICAL	1	02/07/24 1:19 PM
A0207005.d	Std2-0.5/5 ppb	ICAL	1	02/07/24 1:23 PM
A0207006.d	Std3-5/50 ppb	ICAL	1	02/07/24 1:28 PM
A0207007.d	Std4-10/100 ppb	ICAL	1	02/07/24 1:33 PM
A0207008.d	Std5-4.0/20/200 ppb	ICAL	1	02/07/24 1:38 PM
A0207009.d	Std6-8.0/40/400 ppb	ICAL	1	02/07/24 1:42 PM
A0207010.d	Std7-100/1000 ppb	ICAL	1	02/07/24 1:47 PM
A0207011.d	Std8-200/2000 ppb	ICAL	1	02/07/24 1:52 PM
A0207012.d	ICV	ICV	1	02/07/24 2:08 PM
A0207013.d	ICB	ICB	1	02/07/24 2:13 PM
A0207014.d	LLICV1	LLICV	1	02/07/24 2:18 PM
A0207015.d	MLCCV	CCV	1	02/07/24 2:22 PM
A0207016.d	ICSA1	ICSA	1	02/07/24 2:27 PM
A0207017.d	ICSAB1	ICSAB	1	02/07/24 2:31 PM
A0207018.d	LLICV1	LLICV	1	02/07/24 2:39 PM
A0207019.d	MB-106378	MBLK	1	02/07/24 2:45 PM
A0207020.d	LCS-106378	LCS	1	02/07/24 2:49 PM
A0207021.d	N062563-001A	SAMP	1	02/07/24 2:54 PM
A0207022.d	N062563-001A	SAMP	5	02/07/24 2:59 PM
A0207023.d	N062563-001A-PS	PS	1	02/07/24 3:03 PM
A0207024.d	N062563-001A-MS	MS	1	02/07/24 3:08 PM
A0207025.d	N062563-001A-MSD	MSD	1	02/07/24 3:13 PM
A0207026.d	N062306-024A	SAMP	1	02/07/24 3:17 PM
A0207027.d	N062306-024A	SAMP	5	02/07/24 3:22 PM
A0207028.d	RINSE	ICAL	1	02/07/24 3:27 PM
A0207029.d	CCV1	CCV	1	02/07/24 3:31 PM
A0207030.d	CCB1	CCB	1	02/07/24 3:36 PM
A0207031.d	MB1-106379	MBLK	1	02/07/24 3:40 PM
A0207032.d	LCS-106379	LCS	1	02/07/24 3:45 PM
A0207033.d	N062640-001A	SAMP	1	02/07/24 3:50 PM
A0207034.d	N062640-001A	SAMP	5	02/07/24 3:54 PM
A0207035.d	N062640-001A-PS	PS	1	02/07/24 3:59 PM
A0207036.d	N062640-001A-MS	MS	1	02/07/24 4:04 PM
A0207037.d	N062640-001A-MSD	MSD	1	02/07/24 4:08 PM
A0207038.d	N062498-018A	SAMP	1	02/07/24 4:13 PM
A0207039.d	N062498-018A	SAMP	5	02/07/24 4:18 PM
A0207040.d	RINSE	ICAL	1	02/07/24 4:22 PM
A0207041.d	CCV2	CCV	1	02/07/24 4:27 PM
A0207042.d	CCB2	CCB	1	02/07/24 4:32 PM

INJECTION LOG: 240207A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207043.d	ICSA2	ICSA	1	02/07/24 4:36 PM
A0207044.d	ICSAB2	ICSAB	1	02/07/24 4:41 PM
A0207045.d	MB-106628	MBLK	1	02/07/24 4:45 PM
A0207046.d	LCS-106628	LCS	1	02/07/24 4:50 PM
A0207047.d	N062812-001C	SAMP	1	02/07/24 4:55 PM
A0207048.d	N062812-002C	SAMP	1	02/07/24 4:59 PM
A0207049.d	N062812-003C	SAMP	1	02/07/24 5:04 PM
A0207050.d	N062812-004C	SAMP	1	02/07/24 5:09 PM
A0207051.d	RINSE	ICAL	1	02/07/24 5:13 PM
A0207052.d	CCV3	CCV	1	02/07/24 5:18 PM
A0207053.d	CCB3	CCB	1	02/07/24 5:23 PM
A0207054.d	MB-106628	MBLK	1	02/07/24 5:27 PM
A0207055.d	LCS-106628	LCS	1	02/07/24 5:32 PM
A0207056.d	N062812-001C	SAMP	1	02/07/24 5:37 PM
A0207057.d	N062812-002C	SAMP	1	02/07/24 5:41 PM
A0207058.d	N062812-003C	SAMP	1	02/07/24 5:46 PM
A0207059.d	N062812-004C	SAMP	1	02/07/24 5:51 PM
A0207060.d	N062851-001D	SAMP	1	02/07/24 5:55 PM
A0207061.d	N062851-001D	SAMP	5	02/07/24 6:00 PM
A0207062.d	N062851-001D-PS	PS	1	02/07/24 6:05 PM
A0207063.d	RINSE	ICAL	1	02/07/24 6:09 PM
A0207064.d	CCV4	CCV	1	02/07/24 6:14 PM
A0207065.d	CCB4	CCB	1	02/07/24 6:18 PM
A0207066.d	N062851-001D-MS	MS	1	02/07/24 6:23 PM
A0207067.d	N062851-001D-MSD	MSD	1	02/07/24 6:28 PM
A0207068.d	N062851-002D	SAMP	1	02/07/24 6:32 PM
A0207069.d	N062856-001A	SAMP	1	02/07/24 6:37 PM
A0207070.d	N062856-002A	SAMP	1	02/07/24 6:42 PM
A0207071.d	N062861-001D	SAMP	1	02/07/24 6:46 PM
A0207072.d	N062862-001A	SAMP	1	02/07/24 6:51 PM
A0207073.d	N062862-002A	SAMP	1	02/07/24 6:56 PM
A0207074.d	N062862-002A-MS	MS	1	02/07/24 7:00 PM
A0207075.d	RINSE	ICAL	1	02/07/24 7:05 PM
A0207076.d	CCV5	CCV	1	02/07/24 7:10 PM
A0207077.d	CCB5	CCB	1	02/07/24 7:14 PM
A0207078.d	N062862-003A	SAMP	1	02/07/24 7:19 PM
A0207079.d	N062862-004A	SAMP	1	02/07/24 7:24 PM
A0207080.d	N062863-004A	SAMP	1	02/07/24 7:28 PM
A0207081.d	N062863-005A	SAMP	1	02/07/24 7:33 PM
A0207082.d	N062863-007A	SAMP	1	02/07/24 7:38 PM
A0207083.d	N062863-008A	SAMP	1	02/07/24 7:42 PM
A0207084.d	N062863-009A	SAMP	1	02/07/24 7:47 PM

INJECTION LOG: 240207A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207085.d	N062863-010A	SAMP	1	02/07/24 7:51 PM
A0207086.d	N062863-011A	SAMP	1	02/07/24 7:56 PM
A0207087.d	RINSE	ICAL	1	02/07/24 8:01 PM
A0207088.d	CCV6	CCV	1	02/07/24 8:05 PM
A0207089.d	CCB6	CCB	1	02/07/24 8:10 PM
A0207090.d	N062863-012A	SAMP	1	02/07/24 8:15 PM
A0207091.d	N062812-003C	SAMP	5	02/07/24 8:19 PM
A0207092.d	N062851-001D	SAMP	25	02/07/24 8:24 PM
A0207093.d	N062851-001D-PS	PS	5	02/07/24 8:29 PM
A0207094.d	N062851-001D-MS	MS	5	02/07/24 8:33 PM
A0207095.d	N062851-001D-MSD	MSD	5	02/07/24 8:38 PM
A0207096.d	N062851-002D	SAMP	5	02/07/24 8:43 PM
A0207097.d	N062862-002A	SAMP	5	02/07/24 8:47 PM
A0207098.d	N062862-002A-MS	MS	5	02/07/24 8:52 PM
A0207099.d	RINSE	ICAL	1	02/07/24 8:57 PM
A0207100.d	CCV7	CCV	1	02/07/24 9:01 PM
A0207101.d	CCB7	CCB	1	02/07/24 9:06 PM
A0207102.d	N062863-004A	SAMP	5	02/07/24 9:11 PM
A0207103.d	N062863-005A	SAMP	5	02/07/24 9:15 PM
A0207104.d	N062863-009A	SAMP	5	02/07/24 9:20 PM
A0207105.d	N062863-010A	SAMP	5	02/07/24 9:25 PM
A0207106.d	N062863-011A	SAMP	5	02/07/24 9:29 PM
A0207107.d	N062863-012A	SAMP	5	02/07/24 9:34 PM
A0207108.d	RINSE	ICAL	1	02/07/24 9:39 PM
A0207109.d	CCV8	CCV	1	02/07/24 9:43 PM
A0207110.d	CCB8	CCB	1	02/07/24 9:48 PM
A0207111.d	ICSA3	ICSA	1	02/07/24 9:53 PM
A0207112.d	ICSAB3	ICSAB	1	02/07/24 9:57 PM
A0207113.d	MB-106651	MBLK	1	02/07/24 10:02 PM
A0207114.d	LCS-106651	LCS	1	02/07/24 10:07 PM
A0207115.d	N062823-003A	SAMP	1	02/07/24 10:11 PM
A0207116.d	N062887-001D	SAMP	1	02/07/24 10:16 PM
A0207117.d	N062887-001D	SAMP	5	02/07/24 10:20 PM
A0207118.d	N062887-001D-PS	PS	1	02/07/24 10:25 PM
A0207119.d	N062887-001D-MS	MS	1	02/07/24 10:30 PM
A0207120.d	N062887-001D-MSD	MSD	1	02/07/24 10:34 PM
A0207121.d	N062887-002D	SAMP	1	02/07/24 10:39 PM
A0207122.d	RINSE	ICAL	1	02/07/24 10:44 PM
A0207123.d	CCV9	CCV	1	02/07/24 10:48 PM
A0207124.d	CCB9	CCB	1	02/07/24 10:53 PM
A0207125.d	N062894-001A	SAMP	1	02/07/24 10:58 PM
A0207126.d	N062894-001A-MS	MS	1	02/07/24 11:02 PM

INJECTION LOG: 240207A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207127.d	N062894-002A	SAMP	1	02/07/24 11:07 PM
A0207128.d	N062894-003A	SAMP	1	02/07/24 11:12 PM
A0207129.d	N062894-004A	SAMP	1	02/07/24 11:16 PM
A0207130.d	N062894-005A	SAMP	1	02/07/24 11:21 PM
A0207131.d	N062895-001A	SAMP	1	02/07/24 11:25 PM
A0207132.d	N062895-002A	SAMP	1	02/07/24 11:30 PM
A0207133.d	N062895-003A	SAMP	1	02/07/24 11:35 PM
A0207134.d	RINSE	ICAL	1	02/07/24 11:39 PM
A0207135.d	CCV10	CCV	1	02/07/24 11:44 PM
A0207136.d	CCB10	CCB	1	02/07/24 11:49 PM
A0207137.d	N062895-004A	SAMP	1	02/07/24 11:53 PM
A0207138.d	N062907-001D	SAMP	1	02/07/24 11:58 PM
A0207139.d	RINSE	ICAL	1	02/08/24 12:03 AM
A0207140.d	CCV11	CCV	1	02/08/24 12:07 AM
A0207141.d	CCB11	CCB	1	02/08/24 12:12 AM
A0207142.d	ICSA4	ICSA	1	02/08/24 12:17 AM
A0207143.d	ICSAB4	ICSAB	1	02/08/24 12:21 AM
A0207144.d	MB-106675	MBLK	1	02/08/24 12:26 AM
A0207145.d	LCS-106675	LCS	1	02/08/24 12:31 AM
A0207146.d	N062919-001C	SAMP	1	02/08/24 12:35 AM
A0207147.d	N062919-001C	SAMP	5	02/08/24 12:40 AM
A0207148.d	N062919-001C-PS	PS	1	02/08/24 12:45 AM
A0207149.d	N062919-001C-MS	MS	1	02/08/24 12:49 AM
A0207150.d	N062919-001C-MSD	MSD	1	02/08/24 12:54 AM
A0207151.d	N062919-002C	SAMP	1	02/08/24 12:59 AM
A0207152.d	RINSE	ICAL	1	02/08/24 1:03 AM
A0207153.d	CCV12	CCV	1	02/08/24 1:08 AM
A0207154.d	CCB12	CCB	1	02/08/24 1:13 AM
A0207155.d	ICSA5	ICSA	1	02/08/24 1:17 AM
A0207156.d	ICSAB5	ICSAB	1	02/08/24 1:22 AM
A0207157.d	MB-106652	MBLK	1	02/08/24 1:27 AM
A0207158.d	LCS-106652	LCS	1	02/08/24 1:31 AM
A0207159.d	N062843-001D	SAMP	1	02/08/24 1:36 AM
A0207160.d	N062844-001D	SAMP	1	02/08/24 1:41 AM
A0207161.d	N062845-001B	SAMP	1	02/08/24 1:45 AM
A0207162.d	N062845-003B	SAMP	1	02/08/24 1:50 AM
A0207163.d	N062911-001C	SAMP	1	02/08/24 1:55 AM
A0207164.d	N062911-002C	SAMP	1	02/08/24 1:59 AM
A0207165.d	N062911-003C	SAMP	1	02/08/24 2:04 AM
A0207166.d	N062911-003C	SAMP	5	02/08/24 2:09 AM
A0207167.d	CCV13	CCV	1	02/08/24 2:13 AM
A0207168.d	CCB13	CCB	1	02/08/24 2:18 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207169.d	N062911-003C-PS	PS	1	02/08/24 2:22 AM
A0207170.d	N062911-003CMS	MS	1	02/08/24 2:27 AM
A0207171.d	N062911-003CMSD	MSD	1	02/08/24 2:32 AM
A0207172.d	N062911-004C	SAMP	1	02/08/24 2:37 AM
A0207173.d	N062911-006C	SAMP	1	02/08/24 2:41 AM
A0207174.d	N062911-007C	SAMP	1	02/08/24 2:46 AM
A0207175.d	N062911-008C	SAMP	1	02/08/24 2:50 AM
A0207176.d	N062911-009C	SAMP	1	02/08/24 2:55 AM
A0207177.d	N062911-011C	SAMP	1	02/08/24 3:00 AM
A0207178.d	RINSE	ICAL	1	02/08/24 3:05 AM
A0207179.d	CCV14	CCV	1	02/08/24 3:09 AM
A0207180.d	CCB14	CCB	1	02/08/24 3:14 AM
A0207181.d	ICSA6	ICSA	1	02/08/24 3:18 AM
A0207182.d	ICSAB6	ICSAB	1	02/08/24 3:23 AM
A0207183.d	MB-106670	MBLK	1	02/08/24 3:28 AM
A0207184.d	LCS-106670	LCS	1	02/08/24 3:32 AM
A0207185.d	N062938-001C	SAMP	1	02/08/24 3:37 AM
A0207186.d	N062938-002C	SAMP	1	02/08/24 3:42 AM
A0207187.d	N062938-003C	SAMP	1	02/08/24 3:46 AM
A0207188.d	N062938-004C	SAMP	1	02/08/24 3:51 AM
A0207189.d	N062938-004C	SAMP	5	02/08/24 3:56 AM
A0207190.d	N062938-004C-PS	PS	1	02/08/24 4:00 AM
A0207191.d	N062938-004C-MS	MS	1	02/08/24 4:05 AM
A0207192.d	RINSE	ICAL	1	02/08/24 4:10 AM
A0207193.d	CCV15	CCV	1	02/08/24 4:14 AM
A0207194.d	CCB15	CCB	1	02/08/24 4:19 AM
A0207195.d	N062938-004C-MSD	MSD	1	02/08/24 4:24 AM
A0207196.d	N062938-005C	SAMP	1	02/08/24 4:28 AM
A0207197.d	N062938-006C	SAMP	1	02/08/24 4:33 AM
A0207198.d	N062938-007C	SAMP	1	02/08/24 4:38 AM
A0207199.d	N062938-008C	SAMP	1	02/08/24 4:42 AM
A0207200.d	N062938-010C	SAMP	1	02/08/24 4:47 AM
A0207201.d	N062938-012C	SAMP	1	02/08/24 4:52 AM
A0207202.d	N062938-013C	SAMP	1	02/08/24 4:56 AM
A0207203.d	N062938-014C	SAMP	1	02/08/24 5:01 AM
A0207204.d	RINSE	ICAL	1	02/08/24 5:06 AM
A0207205.d	CCV16	CCV	1	02/08/24 5:10 AM
A0207206.d	CCB16	CCB	1	02/08/24 5:15 AM
A0207207.d	N062938-015C	SAMP	1	02/08/24 5:20 AM
A0207208.d	N062938-016C	SAMP	1	02/08/24 5:24 AM
A0207209.d	N062938-017C	SAMP	1	02/08/24 5:29 AM
A0207210.d	N062938-017C	SAMP	10	02/08/24 5:34 AM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0207211.d	N062938-018C	SAMP	1	02/08/24 5:38 AM
A0207212.d	RINSE	ICAL	1	02/08/24 5:43 AM
A0207213.d	CCV17	CCV	1	02/08/24 5:47 AM
A0207214.d	CCB17	CCB	1	02/08/24 5:52 AM
A0207215.d	ICSA7	ICSA	1	02/08/24 5:57 AM
A0207216.d	ICSAB7	ICSAB	1	02/08/24 6:01 AM
A0207217.d	RINSE	ICAL	1	02/08/24 6:06 AM
A0207218.d	RINSE	ICAL	1	02/08/24 6:11 AM
A0207219.d	RINSE	ICAL	1	02/08/24 6:15 AM
A0207220.d	RINSE	ICAL	1	02/08/24 6:20 AM
A0207221.d	RINSE	ICAL	1	02/08/24 6:25 AM
A0207222.d	RINSE	ICAL	1	02/08/24 6:29 AM

INJECTION LOG: 240208A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208001.d	RINSE	ICAL	1	02/08/24 3:37 PM
A0208003.d	Cal Blk	IBLK	1	02/08/24 3:41 PM
A0208004.d	Std1-0.1/1 ppb	ICAL	1	02/08/24 3:46 PM
A0208005.d	Std2-0.5/5 ppb	ICAL	1	02/08/24 3:51 PM
A0208006.d	Std3-5/50 ppb	ICAL	1	02/08/24 3:56 PM
A0208007.d	Std4-10/100 ppb	ICAL	1	02/08/24 4:01 PM
A0208008.d	Std5-4.0/20/200 ppb	ICAL	1	02/08/24 4:05 PM
A0208009.d	Std6-8.0/40/400 ppb	ICAL	1	02/08/24 4:10 PM
A0208010.d	Std7-100/1000 ppb	ICAL	1	02/08/24 4:15 PM
A0208011.d	Std8-200/2000 ppb	ICAL	1	02/08/24 4:20 PM
A0208012.d	ICV	ICV	1	02/08/24 4:30 PM
A0208013.d	ICB	ICB	1	02/08/24 4:34 PM
A0208014.d	LLICV1	LLICV	1	02/08/24 4:39 PM
A0208015.d	MLCCV	CCV	1	02/08/24 4:45 PM
A0208016.d	ICSA1	ICSA	1	02/08/24 4:50 PM
A0208017.d	ICSAB1	ICSAB	1	02/08/24 4:54 PM
A0208018.d	MB-106672	MBLK	1	02/08/24 5:16 PM
A0208019.d	LCS-106672	LCS	1	02/08/24 5:20 PM
A0208020.d	N062802-001E	SAMP	1	02/08/24 5:25 PM
A0208021.d	N062802-001E	SAMP	5	02/08/24 5:30 PM
A0208022.d	N062802-001E-PS	PS	1	02/08/24 5:34 PM
A0208023.d	N062802-001E-MS	MS	1	02/08/24 5:39 PM
A0208024.d	N062802-001E-MSD	MSD	1	02/08/24 5:44 PM
A0208025.d	N062843-001D	SAMP	1	02/08/24 5:48 PM
A0208026.d	RINSE	ICAL	1	02/08/24 5:53 PM
A0208027.d	CCV1	CCV	1	02/08/24 5:58 PM
A0208028.d	CCB1	CCB	1	02/08/24 6:02 PM
A0208029.d	ICSA2	ICSA	1	02/08/24 6:07 PM
A0208030.d	ICSAB2	ICSAB	1	02/08/24 6:12 PM
A0208031.d	N062863-004A	SAMP	25	02/08/24 6:17 PM
A0208032.d	N062863-005A	SAMP	25	02/08/24 6:22 PM
A0208033.d	N062863-009A	SAMP	25	02/08/24 6:27 PM
A0208034.d	N062863-010A	SAMP	25	02/08/24 6:31 PM
A0208035.d	N062823-003A	SAMP	25	02/08/24 6:36 PM
A0208036.d	N062887-001D	SAMP	5	02/08/24 6:40 PM
A0208037.d	N062887-001D	SAMP	25	02/08/24 6:45 PM
A0208038.d	N062887-001D-PS	PS	5	02/08/24 6:50 PM
A0208039.d	N062887-001D-MS	MS	5	02/08/24 6:54 PM
A0208040.d	N062887-001D-MSD	MSD	5	02/08/24 6:59 PM
A0208041.d	CCV2	CCV	1	02/08/24 7:04 PM
A0208042.d	CCB2	CCB	1	02/08/24 7:08 PM
A0208043.d	N062887-002D	SAMP	5	02/08/24 7:13 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208044.d	N062894-001A	SAMP	5	02/08/24 7:18 PM
A0208045.d	N062894-001A-MS	MS	5	02/08/24 7:22 PM
A0208046.d	N062894-003A	SAMP	5	02/08/24 7:27 PM
A0208047.d	N062894-005A	SAMP	5	02/08/24 7:32 PM
A0208048.d	N062895-002A	SAMP	5	02/08/24 7:36 PM
A0208049.d	CCV3	CCV	1	02/08/24 7:41 PM
A0208050.d	CCB3	CCB	1	02/08/24 7:46 PM
A0208051.d	MB-106675	MBLK	1	02/08/24 7:50 PM
A0208052.d	LCS-106675	LCS	1	02/08/24 7:55 PM
A0208053.d	N062919-001C	SAMP	1	02/08/24 8:00 PM
A0208054.d	N062919-001C	SAMP	5	02/08/24 8:04 PM
A0208055.d	N062919-001C	SAMP	25	02/08/24 8:09 PM
A0208056.d	N062919-001C-PS	PS	1	02/08/24 8:14 PM
A0208057.d	N062919-001C-PS	PS	5	02/08/24 8:18 PM
A0208058.d	N062919-001C-MS	MS	1	02/08/24 8:23 PM
A0208059.d	N062919-001C-MS	MS	5	02/08/24 8:28 PM
A0208060.d	CCV4	CCV	1	02/08/24 8:32 PM
A0208061.d	CCB4	CCB	1	02/08/24 8:37 PM
A0208062.d	N062919-001C-MSD	MSD	1	02/08/24 8:42 PM
A0208063.d	N062919-001C-MSD	MSD	5	02/08/24 8:46 PM
A0208064.d	N062919-002C	SAMP	1	02/08/24 8:51 PM
A0208065.d	RINSE	ICAL	1	02/08/24 8:56 PM
A0208066.d	CCV5	CCV	1	02/08/24 9:00 PM
A0208067.d	CCB5	CCB	1	02/08/24 9:05 PM
A0208068.d	ICSA3	ICSA	1	02/08/24 9:10 PM
A0208069.d	ICSAB3	ICSAB	1	02/08/24 9:14 PM
A0208070.d	N062911-004C	SAMP	1	02/08/24 9:19 PM
A0208071.d	N062911-006C	SAMP	1	02/08/24 9:24 PM
A0208072.d	N062911-006C	SAMP	10	02/08/24 9:28 PM
A0208073.d	N062938-004C	SAMP	1	02/08/24 9:33 PM
A0208074.d	N062938-004C	SAMP	5	02/08/24 9:38 PM
A0208075.d	N062938-008C	SAMP	1	02/08/24 9:42 PM
A0208076.d	N062938-012C	SAMP	10	02/08/24 9:47 PM
A0208077.d	N062938-013C	SAMP	10	02/08/24 9:52 PM
A0208078.d	N062938-017C	SAMP	1	02/08/24 9:56 PM
A0208079.d	N062938-018C	SAMP	10	02/08/24 10:01 PM
A0208080.d	CCV6	CCV	1	02/08/24 10:05 PM
A0208081.d	CCB6	CCB	1	02/08/24 10:10 PM
A0208082.d	N062911-004C	SAMP	1	02/08/24 10:15 PM
A0208083.d	N062911-006C	SAMP	1	02/08/24 10:20 PM
A0208084.d	N062938-004C	SAMP	1	02/08/24 10:24 PM
A0208085.d	N062938-008C	SAMP	1	02/08/24 10:29 PM

INJECTION LOG: 240208A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
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A0208087.d	N062911-004C	SAMP	1	02/08/24 10:38 PM
A0208088.d	N062911-006C	SAMP	1	02/08/24 10:43 PM
A0208089.d	N062938-004C	SAMP	1	02/08/24 10:48 PM
A0208090.d	N062938-008C	SAMP	1	02/08/24 10:52 PM
A0208091.d	N062938-017C	SAMP	1	02/08/24 10:57 PM
A0208092.d	CCV7	CCV	1	02/08/24 11:01 PM
A0208093.d	CCB7	CCB	1	02/08/24 11:06 PM
A0208094.d	ICSA4	ICSA	1	02/08/24 11:11 PM
A0208095.d	ICSAB4	ICSAB	1	02/08/24 11:15 PM
A0208096.d	MB-106696	MBLK	1	02/08/24 11:20 PM
A0208097.d	LCS-106696	LCS	1	02/08/24 11:25 PM
A0208098.d	N062495-015D	SAMP	1	02/08/24 11:29 PM
A0208099.d	N062495-015D	SAMP	5	02/08/24 11:34 PM
A0208100.d	N062966-001C	SAMP	1	02/08/24 11:39 PM
A0208101.d	N062966-001C	SAMP	5	02/08/24 11:43 PM
A0208102.d	N062966-001C-PS	PS	1	02/08/24 11:48 PM
A0208103.d	N062966-001CMS	MS	1	02/08/24 11:53 PM
A0208104.d	N062966-001CMSD	MSD	1	02/08/24 11:57 PM
A0208105.d	RINSE	RINSE	1	02/09/24 12:02 AM
A0208106.d	CCV8	CCV	1	02/09/24 12:07 AM
A0208107.d	CCB8	CCB	1	02/09/24 12:11 AM
A0208108.d	N062966-003C	SAMP	1	02/09/24 12:16 AM
A0208109.d	N062966-005C	SAMP	1	02/09/24 12:21 AM
A0208110.d	N062966-006C	SAMP	1	02/09/24 12:25 AM
A0208111.d	N062966-008C	SAMP	1	02/09/24 12:30 AM
A0208112.d	N062966-009C	SAMP	1	02/09/24 12:34 AM
A0208113.d	N062966-010C	SAMP	1	02/09/24 12:39 AM
A0208114.d	N062966-012C	SAMP	1	02/09/24 12:44 AM
A0208115.d	N062966-013C	SAMP	1	02/09/24 12:48 AM
A0208116.d	N062966-014C	SAMP	1	02/09/24 12:53 AM
A0208117.d	RINSE	RINSE	1	02/09/24 12:58 AM
A0208118.d	CCV9	CCV	1	02/09/24 1:02 AM
A0208119.d	CCB9	CCB	1	02/09/24 1:07 AM
A0208120.d	N062966-015C	SAMP	1	02/09/24 1:11 AM
A0208121.d	N062966-016C	SAMP	1	02/09/24 1:16 AM
A0208122.d	N062966-017C	SAMP	1	02/09/24 1:21 AM
A0208123.d	N062966-017C	SAMP	5	02/09/24 1:25 AM
A0208124.d	N062966-017C-PS	PS	1	02/09/24 1:30 AM
A0208125.d	N062966-017CMS	MS	1	02/09/24 1:35 AM
A0208126.d	N062966-017CMSD	MSD	1	02/09/24 1:39 AM
A0208127.d	N062966-018C	SAMP	1	02/09/24 1:44 AM

INJECTION LOG: 240208A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208128.d	N062966-019C	SAMP	1	02/09/24 1:49 AM
A0208129.d	N062966-020C	SAMP	1	02/09/24 1:53 AM
A0208130.d	CCV10	CCV	1	02/09/24 1:58 AM
A0208131.d	CCB10	CCB	1	02/09/24 2:03 AM
A0208132.d	ICSA5	ICSA	1	02/09/24 2:07 AM
A0208133.d	ICSAB5	ICSAB	1	02/09/24 2:12 AM
A0208134.d	N062911-004C	SAMP	1	02/09/24 2:16 AM
A0208135.d	N062911-006C	SAMP	1	02/09/24 2:21 AM
A0208136.d	N062938-004C	SAMP	1	02/09/24 2:26 AM
A0208137.d	N062938-008C	SAMP	1	02/09/24 2:31 AM
A0208138.d	N062938-017C	SAMP	1	02/09/24 2:35 AM
A0208139.d	N062911-004C	SAMP	1	02/09/24 2:40 AM
A0208140.d	N062911-006C	SAMP	1	02/09/24 2:44 AM
A0208141.d	N062938-004C	SAMP	1	02/09/24 2:49 AM
A0208142.d	N062938-008C	SAMP	1	02/09/24 2:54 AM
A0208143.d	N062938-017C	SAMP	1	02/09/24 2:59 AM
A0208144.d	CCV11	CCV	1	02/09/24 3:03 AM
A0208145.d	CCB11	CCB	1	02/09/24 3:08 AM
A0208146.d	ICSA6	ICSA	1	02/09/24 3:12 AM
A0208147.d	ICSAB6	ICSAB	1	02/09/24 3:17 AM
A0208148.d	RINSE	ICAL	1	02/09/24 3:22 AM
A0208149.d	RINSE	ICAL	1	02/09/24 3:26 AM
A0208150.d	RINSE	ICAL	1	02/09/24 3:31 AM
A0208151.d	RINSE	ICAL	1	02/09/24 3:36 AM
A0208152.d	RINSE	ICAL	1	02/09/24 3:40 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/7/2024 11:31:39 AM

Reviewed/ Date: *JRB* 3/3/2024

Page: 1 of 2

Prep End Date: 2/7/2024 3:30:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106670 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-02-26

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106670	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106670	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062938-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-004CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/7/2024 11:31:39 AM

Prep End Date: 2/7/2024 3:30:00 PM

Prep Batch 106670 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 3/3/2024

Initials/ Date: for

Technician: Diane Jetajobe

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): 95 Location: DB-02-26

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062938-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062938-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240206A.b
Acq. Date-Time 2024-02-07 13:00:10
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

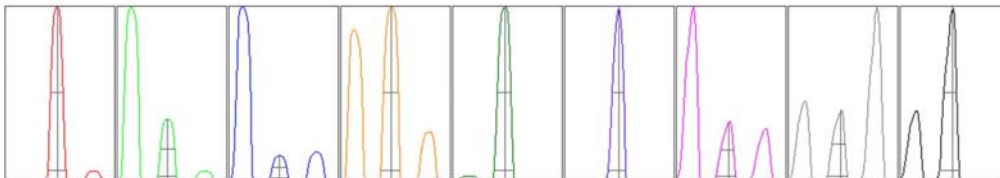
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7100	70999.51	500.00		1.740	5.000
24	10.00	18730	187295.91	500.00		2.368	5.000
25	10.00	2507	25067.59	500.00		3.647	5.000
26	10.00	2901	29008.63	500.00		2.870	5.000
59	10.00	28347	283474.29	500.00		2.511	5.000
115	10.00	31946	319457.96	500.00		2.149	5.000
206	10.00	5595	55947.67	500.00		2.117	5.000
207	10.00	4703	47027.48	500.00		2.037	5.000
208	10.00	11494	114937.25	500.00		2.143	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.499 %
Doubly Charged 70 / 140 1.112 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7326.46	8.95	8.90 - 9.10	
24	19186.71	23.90	23.90 - 24.10	
25	2588.79	24.90	24.90 - 25.10	
26	2959.41	25.90	25.90 - 26.10	
59	27955.60	58.95	58.90 - 59.10	
115	30962.92	115.00	114.90 - 115.10	
206	5523.45	205.95	205.90 - 206.10	
207	4879.93	206.95	206.90 - 207.10	
208	12272.95	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.39	0.495	0.900	
25	0.39	0.492	0.900	
26	0.41	0.534	0.900	
59	0.38	0.530	0.900	
115	0.33	0.479	0.900	
206	0.36	0.539	0.900	
207	0.36	0.552	0.900	
208	0.36	0.557	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2514 V Pulse HV 1592 V

[H2]

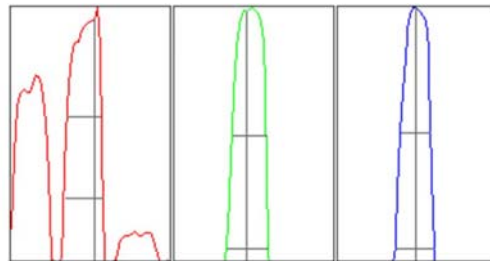
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		173	1730.69			15.009	
59		2861	28608.97			13.078	
115		29145	291453.72			12.220	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.423 %
 Doubly Charged 70 / 140 0.348 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	197.77	26.10	25.90 - 26.10	
59	3058.20	58.90	58.90 - 59.10	
115	31637.60	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.737	0.900	
59	0.64	0.781	0.900	
115	0.58	0.735	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1592 V
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[He]

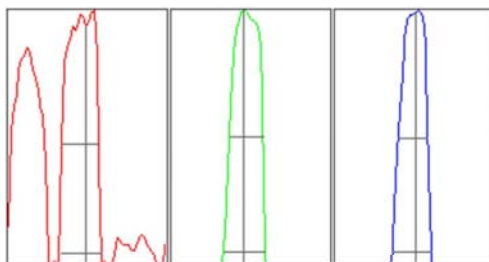
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		71	710.42			13.663	
59		5885	58854.68			2.106	
115		5308	53078.35			2.416	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.165 %
Doubly Charged	70 / 140 1.247 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	69.25	26.00	25.90 - 26.10	
59	5931.47	58.90	58.90 - 59.10	
115	5345.39	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.790	0.900	
59	0.64	0.780	0.900	
115	0.57	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2514 V	Pulse HV	1592 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240207A.b
Acq. Date-Time 2024-02-08 11:58:38
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

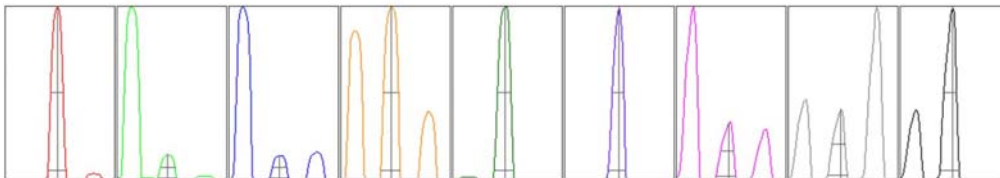
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6293	62927.79	500.00		2.159	5.000
24	10.00	18505	185047.37	500.00		2.235	5.000
25	10.00	2469	24686.83	500.00		3.042	5.000
26	10.00	2844	28443.28	500.00		2.716	5.000
59	10.00	28640	286397.98	500.00		1.778	5.000
115	10.00	34347	343465.47	500.00		1.897	5.000
206	10.00	6035	60350.55	500.00		2.366	5.000
207	10.00	5122	51223.45	500.00		2.256	5.000
208	10.00	12495	124949.23	500.00		2.335	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.533 %
Doubly Charged 70 / 140 0.932 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6542.86	8.95	8.90 - 9.10	
24	19479.13	23.90	23.90 - 24.10	
25	2567.75	24.90	24.90 - 25.10	
26	2967.68	25.90	25.90 - 26.10	
59	28845.91	58.95	58.90 - 59.10	
115	34318.53	115.00	114.90 - 115.10	
206	5965.69	205.95	205.90 - 206.10	
207	5341.53	206.95	206.90 - 207.10	
208	13316.16	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.39	0.494	0.900	
25	0.39	0.493	0.900	
26	0.41	0.533	0.900	
59	0.37	0.528	0.900	
115	0.33	0.477	0.900	
206	0.37	0.539	0.900	
207	0.36	0.554	0.900	
208	0.36	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2516 V Pulse HV 1593 V

[H2]

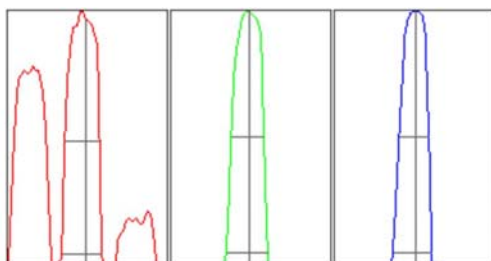
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		169	1694.08			9.901	
59		2318	23184.55			3.522	
115		29580	295798.80			2.689	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.480 %
 Doubly Charged 70 / 140 0.311 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	176.02	26.00	25.90 - 26.10	
59	2468.17	59.00	58.90 - 59.10	
115	31248.37	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.745	0.900	
59	0.62	0.779	0.900	
115	0.57	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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[He]

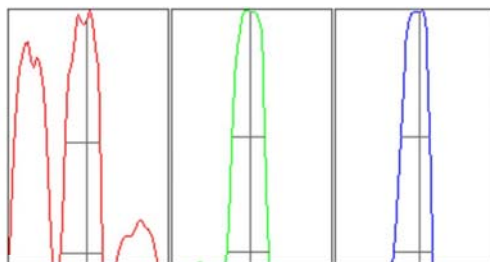
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		78	780.42			12.313	
59		6407	64068.48			1.994	
115		5210	52102.35			2.618	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.193 %
Doubly Charged	70 / 140 1.242 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	74.50	26.00	25.90 - 26.10	
59	6497.64	59.00	58.90 - 59.10	
115	5256.32	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.782	0.900	
59	0.62	0.779	0.900	
115	0.55	0.728	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240207A

Instrument ID: ICPMS-03

Analyte	Data File	A0207003.d	A0207004.d	A0207005.d	A0207006.d	A0207007.d	A0207008.d	A0207009.d	A0207010.d	A0207011.d	
	Acq. Date-Time	02/07/2024 01:14 PM	02/07/2024 01:19 PM	02/07/2024 01:23 PM	02/07/2024 01:28 PM	02/07/2024 01:33 PM	02/07/2024 01:38 PM	02/07/2024 01:42 PM	02/07/2024 01:47 PM	02/07/2024 01:52 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	44837.8	44274	43968.9	44277.4	43866.4	44270.7	44068	43572.2		
55 Mn [2]	CPS	67.6	831.9	7514.1	15249.8	30342	61498.2	155468	314384	0.9999	
52 Cr [2]	CPS	371.1	1619	14686.5	29121.1	57984.2	118070.7	296129.6	601406.6	0.9999	
72 Ge (ISTD) [1]	CPS	82865.2	80640.9	81260.4	80645.2	80107	80217.8	80398.5	80538		
78 Se [1]	CPS	1.1	90	1007.8	2102.4	4050.5	8171	20724.3	41737.8	1.0000	
72 Ge (ISTD) [2]	CPS	25199.5	24863.3	24665.3	24937.9	24404.9	24428.2	24322.5	24557.3		
75 As [2]	CPS	11.1	37.7	168.9	1600	3500.3	6740.1	13752.1	34554.5	1.0000	
103 Rh (ISTD) [2]	CPS	634704.1	629066.3	633277.1	626545.8	633086	637402.8	640309.4	633331.8		
95 Mo [2]	CPS	10	748.9	7120.5	14562.2	29404.6	59867.8	151994.2	312430.5	0.9998	
159 Tb (ISTD) [3]	CPS	1650367	1652749.7	1662669.4	1671017.5	1701483.3	1687094.2	1714679	1713262.9		
137 Ba [3]	CPS	53.3	1540.1	15344.5	31829.4	62753.4	129639.7	328548	671306.1	0.9999	

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240208A

Instrument ID: ICPMS-03

Analyte	Data File	A0208003.d	A0208004.d	A0208005.d	A0208006.d	A0208007.d	A0208008.d	A0208009.d	A0208010.d	A0208011.d	R
	Acq. Date-Time	02/08/2024 03:41 PM	02/08/2024 03:46 PM	02/08/2024 03:51 PM	02/08/2024 03:56 PM	02/08/2024 04:01 PM	02/08/2024 04:05 PM	02/08/2024 04:10 PM	02/08/2024 04:15 PM	02/08/2024 04:20 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	36159.1		36968.7	36715.9	37205.8	36536.6	37189.1	37655.7	37338.3	
55 Mn [2]	CPS	38.7		590.9	6129.8	12295	24970.6	50995.6	128443.3	261949.6	0.9999
72 Ge (ISTD) [2]	CPS	21180.4	21385.1	21341.7	21078	21330.6	21786.7	21694.4	21718.9	21622.1	
75 As [2]	CPS	10	30	145.5	1386.7	2827.9	5681.9	11855.1	29765.2	60854.8	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680449							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.558	0.10	10.00	0	106	90	110				
Barium	10.206	1.0	10.00	0	102	90	110				
Manganese	104.034	0.50	100.0	0	104	90	110				
Molybdenum	10.361	0.50	10.00	0	104	90	110				
Selenium	10.388	0.50	10.00	0	104	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ZZZZZZ	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680451							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.089	0.10	0.1000	0	88.9	80	120				
Barium	1.016	1.0	1.000	0	102	80	120				
Manganese	0.537	0.50	0.5000	0	107	80	120				
Molybdenum	0.558	0.50	0.5000	0	112	80	120				
Selenium	0.462	0.50	0.5000	0	92.4	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680452							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.392	0.10	20.00	0	97.0	90	110				
Barium	19.074	1.0	20.00	0	95.4	90	110				
Manganese	19.103	0.50	20.00	0	95.5	90	110				
Molybdenum	18.849	0.50	20.00	0	94.2	90	110				
Selenium	19.661	0.50	20.00	0	98.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062938
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.459	0.10	20.00	0	107	90	110				
Barium	21.283	1.0	20.00	0	106	90	110				
Manganese	16.973	0.50	20.00	0	84.9	90	110				S
Molybdenum	22.790	0.50	20.00	0	114	90	110				S
Selenium	20.506	0.50	20.00	0	103	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.354	0.10	20.00	0	107	90	110				
Barium	21.410	1.0	20.00	0	107	90	110				
Manganese	16.965	0.50	20.00	0	84.8	90	110				S
Molybdenum	22.597	0.50	20.00	0	113	90	110				S
Selenium	20.464	0.50	20.00	0	102	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCV	Batch ID: R181346	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680486							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.660	0.10	20.00	0	98.3	90	110				
Barium	20.034	1.0	20.00	0	100	90	110				
Manganese	19.193	0.50	20.00	0	96.0	90	110				
Molybdenum	19.287	0.50	20.00	0	96.4	90	110				
Selenium	18.921	0.50	20.00	0	94.6	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

%Rec of Mn and Mo in CCV1 and CCV2 failed, low and high bias. However, samples are reported within CCV14/CCB14 to CCV17/CCB17,

Momy 2/25/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680497			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.244	0.10	20.00	0	96.2	90	110				
Barium	19.903	1.0	20.00	0	99.5	90	110				
Manganese	19.206	0.50	20.00	0	96.0	90	110				
Molybdenum	18.784	0.50	20.00	0	93.9	90	110				
Selenium	19.459	0.50	20.00	0	97.3	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680508			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.132	0.10	20.00	0	95.7	90	110				
Barium	19.776	1.0	20.00	0	98.9	90	110				
Manganese	19.233	0.50	20.00	0	96.2	90	110				
Molybdenum	19.030	0.50	20.00	0	95.1	90	110				
Selenium	18.919	0.50	20.00	0	94.6	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680519			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.962	0.10	20.00	0	94.8	90	110				
Barium	19.492	1.0	20.00	0	97.5	90	110				
Manganese	18.996	0.50	20.00	0	95.0	90	110				
Molybdenum	19.016	0.50	20.00	0	95.1	90	110				
Selenium	19.209	0.50	20.00	0	96.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680538			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.428	0.10	20.00	0	97.1	90	110				
Barium	19.468	1.0	20.00	0	97.3	90	110				
Manganese	19.155	0.50	20.00	0	95.8	90	110				
Molybdenum	19.305	0.50	20.00	0	96.5	90	110				
Selenium	19.450	0.50	20.00	0	97.2	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680538			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.427	0.10	20.00	0	97.1	90	110				
Barium	19.428	1.0	20.00	0	97.1	90	110				
Manganese	19.238	0.50	20.00	0	96.2	90	110				
Molybdenum	18.840	0.50	20.00	0	94.2	90	110				
Selenium	18.853	0.50	20.00	0	94.3	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680551			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.191	0.10	20.00	0	96.0	90	110				
Barium	19.738	1.0	20.00	0	98.7	90	110				
Manganese	19.467	0.50	20.00	0	97.3	90	110				
Molybdenum	18.971	0.50	20.00	0	94.9	90	110				
Selenium	19.022	0.50	20.00	0	95.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680562			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.156	0.10	20.00	0	95.8	90	110				
Barium	19.574	1.0	20.00	0	97.9	90	110				
Manganese	19.017	0.50	20.00	0	95.1	90	110				
Molybdenum	18.823	0.50	20.00	0	94.1	90	110				
Selenium	19.132	0.50	20.00	0	95.7	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680566			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.909	0.10	20.00	0	94.5	90	110				
Barium	19.808	1.0	20.00	0	99.0	90	110				
Manganese	19.011	0.50	20.00	0	95.1	90	110				
Molybdenum	19.087	0.50	20.00	0	95.4	90	110				
Selenium	19.644	0.50	20.00	0	98.2	90	110				

Sample ID: CCV12		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680578			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.422	0.10	20.00	0	97.1	90	110				
Barium	20.186	1.0	20.00	0	101	90	110				
Manganese	19.193	0.50	20.00	0	96.0	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	19.015	0.50	20.00	0	95.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV13		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680592			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.749	0.10	20.00	0	93.7	90	110				
Barium	20.171	1.0	20.00	0	101	90	110				
Manganese	19.156	0.50	20.00	0	95.8	90	110				
Molybdenum	19.218	0.50	20.00	0	96.1	90	110				
Selenium	18.816	0.50	20.00	0	94.1	90	110				

Sample ID: CCV14		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680603			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.837	0.10	20.00	0	94.2	90	110				
Barium	20.085	1.0	20.00	0	100	90	110				
Manganese	19.011	0.50	20.00	0	95.1	90	110				
Molybdenum	18.962	0.50	20.00	0	94.8	90	110				
Selenium	19.361	0.50	20.00	0	96.8	90	110				

Sample ID: CCV15		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680616			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.104	0.10	20.00	0	95.5	90	110				
Barium	20.059	1.0	20.00	0	100	90	110				
Manganese	18.819	0.50	20.00	0	94.1	90	110				
Molybdenum	18.970	0.50	20.00	0	94.9	90	110				
Selenium	19.806	0.50	20.00	0	99.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV16		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680627			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.857	0.10	20.00	0	94.3	90	110				
Barium	20.127	1.0	20.00	0	101	90	110				
Manganese	18.835	0.50	20.00	0	94.2	90	110				
Molybdenum	19.014	0.50	20.00	0	95.1	90	110				
Selenium	19.706	0.50	20.00	0	98.5	90	110				

Sample ID: CCV17		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: CCV		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680634			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.004	0.10	20.00	0	95.0	90	110				
Barium	20.235	1.0	20.00	0	101	90	110				
Manganese	18.730	0.50	20.00	0	93.6	90	110				
Molybdenum	18.580	0.50	20.00	0	92.9	90	110				
Selenium	19.955	0.50	20.00	0	99.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682522							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.844	0.10	10.00	0	108	90	110				
Manganese	106.034	0.50	100.0	0	106	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ZZZZZ	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682524							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.108	0.10	0.1000	0	108	80	120				
Manganese	0.531	0.50	0.5000	0	106	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682525							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.496	0.10	20.00	0	97.5	90	110				
Manganese	19.454	0.50	20.00	0	97.3	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682536							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.842	0.10	20.00	0	99.2	90	110				
Manganese	18.461	0.50	20.00	0	92.3	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682550							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.960	0.10	20.00	0	94.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.351	0.50	20.00	0	96.8	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682558						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.478	0.10	20.00	0	97.4	90	110				
Manganese	19.225	0.50	20.00	0	96.1	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682569						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.296	0.10	20.00	0	101	90	110				
Manganese	19.174	0.50	20.00	0	95.9	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.925	0.10	20.00	0	99.6	90	110				
Manganese	19.296	0.50	20.00	0	96.5	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682588						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.309	0.10	20.00	0	96.5	90	110				
Manganese	19.012	0.50	20.00	0	95.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682600							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.228	0.10	20.00	0	96.1	90	110				
Manganese	19.128	0.50	20.00	0	95.6	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682613							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.843	0.10	20.00	0	99.2	90	110				
Manganese	19.123	0.50	20.00	0	95.6	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682624							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.470	0.10	20.00	0	97.4	90	110				
Manganese	19.274	0.50	20.00	0	96.4	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682636							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.371	0.10	20.00	0	96.9	90	110				
Manganese	18.982	0.50	20.00	0	94.9	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682650							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.350	0.10	20.00	0	96.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCV	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682650							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.049	0.50	20.00	0	95.2	90	110				

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680646							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.373	1.0	10.00	0	104	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ZZZZZ	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680648							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.015	1.0	1.000	0	101	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680649							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.310	1.0	20.00	0	96.6	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680662							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.383	1.0	20.00	0	102	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.362	1.0	20.00	0	102	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.207	1.0	20.00	0	96.0	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680694							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.218	1.0	20.00	0	96.1	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680705							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.212	1.0	20.00	0	96.1	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.246	1.0	20.00	0	96.2	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680727							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.106	1.0	20.00	0	95.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680735							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.514	1.0	20.00	0	97.6	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680748							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.462	1.0	20.00	0	97.3	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680759							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.235	1.0	20.00	0	96.2	90	110				

Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680763							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.031	1.0	20.00	0	95.2	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680775							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.285	1.0	20.00	0	96.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV13	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680789							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.255	1.0	20.00	0	96.3	90	110				

Sample ID: CCV14	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680800							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.448	1.0	20.00	0	97.2	90	110				

Sample ID: CCV15	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680813							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.444	1.0	20.00	0	97.2	90	110				

Sample ID: CCV16	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680824							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.562	1.0	20.00	0	97.8	90	110				

Sample ID: CCV17	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCV	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680831							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.308	1.0	20.00	0	96.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	0.055	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680498						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680579						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680593						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680617						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680628						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: CCB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682523						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682537						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682625
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682637
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: CCB	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682651
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680647						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680684						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680706	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680717	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680728	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680736	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680749	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680760						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680764						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680776						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB14	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB15	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680814	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB16	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680825	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID: CCB17	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: CCB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680832	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	21.279	0.10	20.00	0	106	80	120				
Barium	21.424	1.0	20.00	0	107	80	120				
Manganese	16.810	0.50	20.00	0	84.1	80	120				
Molybdenum	23.033	0.50	20.00	0	115	80	120				
Selenium	20.081	0.50	20.00	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062938
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSAB		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680479			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.993	0.10	20.00	0	105	80	120				
Barium	21.659	1.0	20.00	0	108	80	120				
Manganese	17.012	0.50	20.00	0	85.1	80	120				
Molybdenum	23.094	0.50	20.00	0	115	80	120				
Selenium	19.926	0.50	20.00	0	99.6	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSA		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680540			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSAB		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/7/2024		SeqNo: 5680541			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.279	0.10	20.00	0	106	80	120				
Barium	21.354	1.0	20.00	0	107	80	120				
Manganese	16.976	0.50	20.00	0	84.9	80	120				
Molybdenum	22.858	0.50	20.00	0	114	80	120				
Selenium	20.485	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.967	0.10	20.00	0	105	80	120				
Barium	21.522	1.0	20.00	0	108	80	120				
Manganese	16.754	0.50	20.00	0	83.8	80	120				
Molybdenum	22.641	0.50	20.00	0	113	80	120				
Selenium	20.880	0.50	20.00	0	104	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680580						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSAB		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680581			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.064	0.10	20.00	0	105	80	120				
Barium	21.669	1.0	20.00	0	108	80	120				
Manganese	16.880	0.50	20.00	0	84.4	80	120				
Molybdenum	22.653	0.50	20.00	0	113	80	120				
Selenium	19.953	0.50	20.00	0	99.8	80	120				

Sample ID: ICSA6		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSA		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680605			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB6		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181346			
Client ID: ICSAB		Batch ID: R181346		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5680606			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.225	0.10	20.00	0	106	80	120				
Barium	21.604	1.0	20.00	0	108	80	120				
Manganese	16.730	0.50	20.00	0	83.6	80	120				
Molybdenum	22.705	0.50	20.00	0	114	80	120				
Selenium	20.766	0.50	20.00	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSA	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB7	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ICSAB	Batch ID: R181346	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5680637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.706	0.10	20.00	0	104	80	120				
Barium	21.773	1.0	20.00	0	109	80	120				
Manganese	16.618	0.50	20.00	0	83.1	80	120				
Molybdenum	22.412	0.50	20.00	0	112	80	120				
Selenium	20.458	0.50	20.00	0	102	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA B	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.412	0.10	20.00	0	107	80	120				
Manganese	17.342	0.50	20.00	0	86.7	80	120				

Sample ID: ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA B	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.700	0.10	20.00	0	104	80	120				
Manganese	17.076	0.50	20.00	0	85.4	80	120				

Sample ID: ICSA 3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682577	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.927	0.10	20.00	0	105	80	120				
Manganese	17.177	0.50	20.00	0	85.9	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682602	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682603	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.877	0.10	20.00	0	104	80	120				
Manganese	16.648	0.50	20.00	0	83.2	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682638	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSAB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682639							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.303	0.10	20.00	0	102	80	120				
Manganese	16.936	0.50	20.00	0	84.7	80	120				

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSA	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID: ICSAB6	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181372						
Client ID: ICSAB	Batch ID: R181372	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682653							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.588	0.10	20.00	0	103	80	120				
Manganese	16.768	0.50	20.00	0	83.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.420	1.0	20.00	0	102	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.555	1.0	20.00	0	103	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020		Analysis Date: 2/7/2024	SeqNo: 5680737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/7/2024	SeqNo: 5680738							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.368	1.0	20.00	0	102	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680765							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680766							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.562	1.0	20.00	0	103	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680777							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ICSAB	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680778							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.642	1.0	20.00	0	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680802	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680802	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	21.106	1.0	20.00	0	106	80	120				
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Sample ID: ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680833	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID: ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347
Client ID: ICSA	Batch ID: R181347	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5680834	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	21.037	1.0	20.00	0	105	80	120				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1650367	1650367	100	PASS	30-150	44837.8	44837.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1666057.9	1650367	100.95	PASS	30-150	44009	44837.8	98.15	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1652749.7	1650367	100.14	PASS	30-150	44274	44837.8	98.74	PASS	30-150
Std3-5/50 ppb	ICAL	1	1662669.4	1650367	100.75	PASS	30-150	43968.9	44837.8	98.06	PASS	30-150
Std4-10/100 ppb	ICAL	1	1671017.5	1650367	101.25	PASS	30-150	44277.4	44837.8	98.75	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1701483.3	1650367	103.1	PASS	30-150	43866.4	44837.8	97.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1687094.2	1650367	102.23	PASS	30-150	44270.7	44837.8	98.74	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1714679	1650367	103.9	PASS	30-150	44068	44837.8	98.28	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1713262.9	1650367	103.81	PASS	30-150	43572.2	44837.8	97.18	PASS	30-150
ICV	ICV	1	1739832.2	1650367	105.42	PASS	30-150	42874.9	44837.8	95.62	PASS	30-150
ICB	ICB	1	1709601.4	1650367	103.59	PASS	30-150	42737.9	44837.8	95.32	PASS	30-150
LLICV1	LLICV	1	1711784.6	1650367	103.72	PASS	30-150	42943.9	44837.8	95.78	PASS	30-150
MLCCV	CCV	1	1717182.9	1650367	104.05	PASS	30-150	43379.5	44837.8	96.75	PASS	30-150
ICSA1	ICSA	1	1695000.2	1650367	102.7	PASS	30-150	43087.6	44837.8	96.1	PASS	30-150
ICSAB1	ICSAB	1	1554448.7	1650367	94.19	PASS	30-150	42936.1	44837.8	95.76	PASS	30-150
LLICV1	LLICV	1	1729949	1650367	104.82	PASS	30-150	46407.6	44837.8	103.5	PASS	30-150
CCV1	CCV	1	1561017	1650367	94.59	PASS	30-150	43740.4	44837.8	97.55	PASS	30-150
CCB1	CCB	1	1696791.1	1650367	102.81	PASS	30-150	46677.3	44837.8	104.1	PASS	30-150
CCV2	CCV	1	1540959.4	1650367	93.37	PASS	30-150	44388.8	44837.8	99	PASS	30-150
CCB2	CCB	1	1708454.1	1650367	103.52	PASS	30-150	47584.1	44837.8	106.12	PASS	30-150
ICSA2	ICSA	1	1665489.1	1650367	100.92	PASS	30-150	46413.1	44837.8	103.51	PASS	30-150
ICSAB2	ICSAB	1	1542969.2	1650367	93.49	PASS	30-150	45100.6	44837.8	100.59	PASS	30-150
CCV3	CCV	1	1723610.7	1650367	104.44	PASS	30-150	45407.1	44837.8	101.27	PASS	30-150
CCB3	CCB	1	1703963.8	1650367	103.25	PASS	30-150	45196.5	44837.8	100.8	PASS	30-150
CCV4	CCV	1	1705589.1	1650367	103.35	PASS	30-150	45011.5	44837.8	100.39	PASS	30-150
CCB4	CCB	1	1709333.2	1650367	103.57	PASS	30-150	43957.7	44837.8	98.04	PASS	30-150
CCV5	CCV	1	1721745.7	1650367	104.33	PASS	30-150	44518	44837.8	99.29	PASS	30-150
CCB5	CCB	1	1719611.4	1650367	104.2	PASS	30-150	44078	44837.8	98.31	PASS	30-150
CCV6	CCV	1	1745362	1650367	105.76	PASS	30-150	43851.8	44837.8	97.8	PASS	30-150
CCB6	CCB	1	1749663.7	1650367	106.02	PASS	30-150	42757.9	44837.8	95.36	PASS	30-150
CCV7	CCV	1	1756462.1	1650367	106.43	PASS	30-150	43456.4	44837.8	96.92	PASS	30-150
CCB7	CCB	1	1755566.4	1650367	106.37	PASS	30-150	41923.6	44837.8	93.5	PASS	30-150
CCV8	CCV	1	1757853.2	1650367	106.51	PASS	30-150	42827	44837.8	95.52	PASS	30-150
CCB8	CCB	1	1745919.2	1650367	105.79	PASS	30-150	42028.3	44837.8	93.73	PASS	30-150
ICSA3	ICSA	1	1722616.9	1650367	104.38	PASS	30-150	42206.5	44837.8	94.13	PASS	30-150
ICSAB3	ICSAB	1	1602913.5	1650367	97.12	PASS	30-150	42180.9	44837.8	94.07	PASS	30-150
CCV9	CCV	1	1742757.9	1650367	105.6	PASS	30-150	43767.2	44837.8	97.61	PASS	30-150
CCB9	CCB	1	1733186.8	1650367	105.02	PASS	30-150	42884.9	44837.8	95.64	PASS	30-150
CCV10	CCV	1	1752965.7	1650367	106.22	PASS	30-150	43997.8	44837.8	98.13	PASS	30-150
CCB10	CCB	1	1732469.1	1650367	104.97	PASS	30-150	43244.7	44837.8	96.45	PASS	30-150
CCV11	CCV	1	1750978.4	1650367	106.1	PASS	30-150	43824	44837.8	97.74	PASS	30-150

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	1722143.9	1650367	104.35	PASS	30-150	42757.9	44837.8	95.36	PASS	30-150
ICSA4	ICSA	1	1703894.1	1650367	103.24	PASS	30-150	42818.1	44837.8	95.5	PASS	30-150
ICSAB4	ICSAB	1	1594644.7	1650367	96.62	PASS	30-150	43097.7	44837.8	96.12	PASS	30-150
CCV12	CCV	1	1742041.6	1650367	105.55	PASS	30-150	44470.1	44837.8	99.18	PASS	30-150
CCB12	CCB	1	1709330.3	1650367	103.57	PASS	30-150	44052.3	44837.8	98.25	PASS	30-150
ICSA5	ICSA	1	1718398.1	1650367	104.12	PASS	30-150	43695.9	44837.8	97.45	PASS	30-150
ICSAB5	ICSAB	1	1596631	1650367	96.74	PASS	30-150	42951.7	44837.8	95.79	PASS	30-150
CCV13	CCV	1	1767228.5	1650367	107.08	PASS	30-150	45070.7	44837.8	100.52	PASS	30-150
CCB13	CCB	1	1757903	1650367	106.52	PASS	30-150	44259.5	44837.8	98.71	PASS	30-150
CCV14	CCV	1	1730615.1	1650367	104.86	PASS	30-150	42955.1	44837.8	95.8	PASS	30-150
CCB14	CCB	1	1724393.5	1650367	104.49	PASS	30-150	41750.9	44837.8	93.12	PASS	30-150
ICSA6	ICSA	1	1718077.7	1650367	104.1	PASS	30-150	40810.8	44837.8	91.02	PASS	30-150
ICSAB6	ICSAB	1	1584502.4	1650367	96.01	PASS	30-150	39261.6	44837.8	87.56	PASS	30-150
MB-106670	MBLK	1	1711808.9	1650367	103.72	PASS	30-150	41556	44837.8	92.68	PASS	30-150
LCS-106670	LCS	1	1713887.1	1650367	103.85	PASS	30-150	41096	44837.8	91.65	PASS	30-150
N062938-001C	SAMP	1	1344085.6	1650367	81.44	PASS	30-150	35907.5	44837.8	80.08	PASS	30-150
N062938-002C	SAMP	1	1423696.9	1650367	86.27	PASS	30-150	36343.9	44837.8	81.06	PASS	30-150
N062938-003C	SAMP	1	1429297.6	1650367	86.6	PASS	30-150	36233.7	44837.8	80.81	PASS	30-150
N062938-004C	SAMP	1	1335923.1	1650367	80.95	PASS	30-150	34850.7	44837.8	77.73	PASS	30-150
N062938-004C	SAMP	5	1568712.4	1650367	95.05	PASS	30-150	38570.1	44837.8	86.02	PASS	30-150
N062938-004C-PS	PS	1	1379431.4	1650367	83.58	PASS	30-150	36419.6	44837.8	81.23	PASS	30-150
N062938-004C-MS	MS	1	1390548.3	1650367	84.26	PASS	30-150	36525.4	44837.8	81.46	PASS	30-150
CCV15	CCV	1	1719604.5	1650367	104.2	PASS	30-150	41864.6	44837.8	93.37	PASS	30-150
CCB15	CCB	1	1707569	1650367	103.47	PASS	30-150	40225	44837.8	89.71	PASS	30-150
N062938-004C-MSD	MSD	1	1378028.8	1650367	83.5	PASS	30-150	36268.3	44837.8	80.89	PASS	30-150
N062938-005C	SAMP	1	1259941.5	1650367	76.34	PASS	30-150	33742.9	44837.8	75.26	PASS	30-150
N062938-006C	SAMP	1	1359027.3	1650367	82.35	PASS	30-150	34494.4	44837.8	76.93	PASS	30-150
N062938-007C	SAMP	1	1365917.3	1650367	82.76	PASS	30-150	35231.6	44837.8	78.58	PASS	30-150
N062938-008C	SAMP	1	1353750	1650367	82.03	PASS	30-150	35713.7	44837.8	79.65	PASS	30-150
N062938-010C	SAMP	1	1667133.8	1650367	101.02	PASS	30-150	39584.5	44837.8	88.28	PASS	30-150
N062938-012C	SAMP	1	1544779.9	1650367	93.6	PASS	30-150	36909.6	44837.8	82.32	PASS	30-150
N062938-013C	SAMP	1	1675408.6	1650367	101.52	PASS	30-150	38749.3	44837.8	86.42	PASS	30-150
N062938-014C	SAMP	1	1629159.7	1650367	98.71	PASS	30-150	37183.6	44837.8	82.93	PASS	30-150
CCV16	CCV	1	1717271	1650367	104.05	PASS	30-150	40207.1	44837.8	89.67	PASS	30-150
CCB16	CCB	1	1709501.3	1650367	103.58	PASS	30-150	39059	44837.8	87.11	PASS	30-150
N062938-015C	SAMP	1	1423840.7	1650367	86.27	PASS	30-150	34495.5	44837.8	76.93	PASS	30-150
N062938-016C	SAMP	1	1264058.1	1650367	76.59	PASS	30-150	32784.4	44837.8	73.12	PASS	30-150
N062938-017C	SAMP	1	1430291	1650367	86.67	PASS	30-150	36433	44837.8	81.26	PASS	30-150
N062938-017C	SAMP	10	1630377.1	1650367	98.79	PASS	30-150	39393	44837.8	87.86	PASS	30-150
N062938-018C	SAMP	1	1661406.7	1650367	100.67	PASS	30-150	37216.9	44837.8	83	PASS	30-150
CCV17	CCV	1	1729688.6	1650367	104.81	PASS	30-150	40001.1	44837.8	89.21	PASS	30-150

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB17	CCB	1	1701598	1650367	103.1	PASS	30-150	39320.7	44837.8	87.7	PASS	30-150
ICSA7	ICSA	1	1696556	1650367	102.8	PASS	30-150	38250.4	44837.8	85.31	PASS	30-150
ICSAB7	ICSAB	1	1559501.9	1650367	94.49	PASS	30-150	37582.2	44837.8	83.82	PASS	30-150

INTERNAL STANDARD: 240207A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	25199.5	25199.5	100	PASS	30-150	82865.2	82865.2	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	24863.3	25199.5	98.67	PASS	30-150	82055.6	82865.2	99.02	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	24665.3	25199.5	97.88	PASS	30-150	80640.9	82865.2	97.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	24937.9	25199.5	98.96	PASS	30-150	81260.4	82865.2	98.06	PASS	30-150
Std4-10/100 ppb	ICAL	1	24404.9	25199.5	96.85	PASS	30-150	80645.2	82865.2	97.32	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	24428.2	25199.5	96.94	PASS	30-150	80107	82865.2	96.67	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	24322.5	25199.5	96.52	PASS	30-150	80217.8	82865.2	96.81	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24557.3	25199.5	97.45	PASS	30-150	80398.5	82865.2	97.02	PASS	30-150
Std8-200/2000 ppb	ICAL	1	25133.7	25199.5	99.74	PASS	30-150	80538	82865.2	97.19	PASS	30-150
ICV	ICV	1	24161.2	25199.5	95.88	PASS	30-150	78699.2	82865.2	94.97	PASS	30-150
ICB	ICB	1	24254.7	25199.5	96.25	PASS	30-150	78821.9	82865.2	95.12	PASS	30-150
LLICV1	LLICV	1	24204.6	25199.5	96.05	PASS	30-150	79125.7	82865.2	95.49	PASS	30-150
MLCCV	CCV	1	24138.9	25199.5	95.79	PASS	30-150	79897.2	82865.2	96.42	PASS	30-150
ICSA1	ICSA	1	23572.6	25199.5	93.54	PASS	30-150	78027.3	82865.2	94.16	PASS	30-150
ICSAB1	ICSAB	1	23390.1	25199.5	92.82	PASS	30-150	75017.6	82865.2	90.53	PASS	30-150
LLICV1	LLICV	1	25600	25199.5	101.59	PASS	30-150	84871	82865.2	102.42	PASS	30-150
CCV1	CCV	1	23968.7	25199.5	95.12	PASS	30-150	77346.2	82865.2	93.34	PASS	30-150
CCB1	CCB	1	26281.2	25199.5	104.29	PASS	30-150	87261.1	82865.2	105.3	PASS	30-150
CCV2	CCV	1	24073.3	25199.5	95.53	PASS	30-150	78234.9	82865.2	94.41	PASS	30-150
CCB2	CCB	1	26610.5	25199.5	105.6	PASS	30-150	87613	82865.2	105.73	PASS	30-150
ICSA2	ICSA	1	25604.5	25199.5	101.61	PASS	30-150	84812.9	82865.2	102.35	PASS	30-150
ICSAB2	ICSAB	1	25231.7	25199.5	100.13	PASS	30-150	80751.3	82865.2	97.45	PASS	30-150
CCV3	CCV	1	25330.7	25199.5	100.52	PASS	30-150	84015.4	82865.2	101.39	PASS	30-150
CCB3	CCB	1	25814.8	25199.5	102.44	PASS	30-150	84043.3	82865.2	101.42	PASS	30-150
CCV4	CCV	1	25390.8	25199.5	100.76	PASS	30-150	83409	82865.2	100.66	PASS	30-150
CCB4	CCB	1	25574.4	25199.5	101.49	PASS	30-150	81435.8	82865.2	98.28	PASS	30-150
CCV5	CCV	1	25294	25199.5	100.38	PASS	30-150	82408.5	82865.2	99.45	PASS	30-150
CCB5	CCB	1	24663.1	25199.5	97.87	PASS	30-150	82438.5	82865.2	99.49	PASS	30-150
CCV6	CCV	1	24559.6	25199.5	97.46	PASS	30-150	79715.1	82865.2	96.2	PASS	30-150
CCB6	CCB	1	24521.7	25199.5	97.31	PASS	30-150	79821.1	82865.2	96.33	PASS	30-150
CCV7	CCV	1	24574	25199.5	97.52	PASS	30-150	79481.9	82865.2	95.92	PASS	30-150
CCB7	CCB	1	24480.5	25199.5	97.15	PASS	30-150	77784.9	82865.2	93.87	PASS	30-150
CCV8	CCV	1	24569.6	25199.5	97.5	PASS	30-150	80608.4	82865.2	97.28	PASS	30-150
CCB8	CCB	1	24647.5	25199.5	97.81	PASS	30-150	78943.7	82865.2	95.27	PASS	30-150
ICSA3	ICSA	1	24230.2	25199.5	96.15	PASS	30-150	78890	82865.2	95.2	PASS	30-150
ICSAB3	ICSAB	1	23668.2	25199.5	93.92	PASS	30-150	73777.6	82865.2	89.03	PASS	30-150
CCV9	CCV	1	25249.5	25199.5	100.2	PASS	30-150	81306.2	82865.2	98.12	PASS	30-150
CCB9	CCB	1	25128.2	25199.5	99.72	PASS	30-150	81843.5	82865.2	98.77	PASS	30-150
CCV10	CCV	1	24805.5	25199.5	98.44	PASS	30-150	82390.6	82865.2	99.43	PASS	30-150
CCB10	CCB	1	25280.7	25199.5	100.32	PASS	30-150	81482.6	82865.2	98.33	PASS	30-150
CCV11	CCV	1	25329.6	25199.5	100.52	PASS	30-150	81994.1	82865.2	98.95	PASS	30-150

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Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	24994.7	25199.5	99.19	PASS	30-150	80411.8	82865.2	97.04	PASS	30-150
ICSA4	ICSA	1	24539.5	25199.5	97.38	PASS	30-150	81300.6	82865.2	98.11	PASS	30-150
ICSAB4	ICSAB	1	24026.6	25199.5	95.35	PASS	30-150	76355.9	82865.2	92.14	PASS	30-150
CCV12	CCV	1	25588.9	25199.5	101.55	PASS	30-150	83782.9	82865.2	101.11	PASS	30-150
CCB12	CCB	1	25900.5	25199.5	102.78	PASS	30-150	82829.5	82865.2	99.96	PASS	30-150
ICSA5	ICSA	1	25196.1	25199.5	99.99	PASS	30-150	82139.3	82865.2	99.12	PASS	30-150
ICSAB5	ICSAB	1	24120	25199.5	95.72	PASS	30-150	76868.4	82865.2	92.76	PASS	30-150
CCV13	CCV	1	26122	25199.5	103.66	PASS	30-150	86779.6	82865.2	104.72	PASS	30-150
CCB13	CCB	1	25531	25199.5	101.32	PASS	30-150	84392.8	82865.2	101.84	PASS	30-150
CCV14	CCV	1	24586.3	25199.5	97.57	PASS	30-150	77329.5	82865.2	93.32	PASS	30-150
CCB14	CCB	1	24047.7	25199.5	95.43	PASS	30-150	75877.2	82865.2	91.57	PASS	30-150
ICSA6	ICSA	1	23542.5	25199.5	93.42	PASS	30-150	75611.4	82865.2	91.25	PASS	30-150
ICSAB6	ICSAB	1	22673.5	25199.5	89.98	PASS	30-150	68566.3	82865.2	82.74	PASS	30-150
MB-106670	MBLK	1	24098.9	25199.5	95.63	PASS	30-150	77050.4	82865.2	92.98	PASS	30-150
LCS-106670	LCS	1	24095.5	25199.5	95.62	PASS	30-150	76181.8	82865.2	91.93	PASS	30-150
N062938-001C	SAMP	1	20406.1	25199.5	80.98	PASS	30-150	59628.1	82865.2	71.96	PASS	30-150
N062938-002C	SAMP	1	20159.1	25199.5	80	PASS	30-150	60185.6	82865.2	72.63	PASS	30-150
N062938-003C	SAMP	1	20138	25199.5	79.91	PASS	30-150	59757.5	82865.2	72.11	PASS	30-150
N062938-004C	SAMP	1	19673	25199.5	78.07	PASS	30-150	57700	82865.2	69.63	PASS	30-150
N062938-004C	SAMP	5	22175	25199.5	88	PASS	30-150	67918	82865.2	81.96	PASS	30-150
N062938-004C-PS	PS	1	20441.7	25199.5	81.12	PASS	30-150	59699.4	82865.2	72.04	PASS	30-150
N062938-004C-MS	MS	1	20508.4	25199.5	81.38	PASS	30-150	60514.7	82865.2	73.03	PASS	30-150
CCV15	CCV	1	23896.4	25199.5	94.83	PASS	30-150	75700.8	82865.2	91.35	PASS	30-150
CCB15	CCB	1	23667.1	25199.5	93.92	PASS	30-150	73348	82865.2	88.51	PASS	30-150
N062938-004C-MSD	MSD	1	20405	25199.5	80.97	PASS	30-150	58445	82865.2	70.53	PASS	30-150
N062938-005C	SAMP	1	18812	25199.5	74.65	PASS	30-150	52628.6	82865.2	63.51	PASS	30-150
N062938-006C	SAMP	1	19869.9	25199.5	78.85	PASS	30-150	56281.9	82865.2	67.92	PASS	30-150
N062938-007C	SAMP	1	19868.7	25199.5	78.85	PASS	30-150	56643.1	82865.2	68.36	PASS	30-150
N062938-008C	SAMP	1	19848.7	25199.5	78.77	PASS	30-150	57805	82865.2	69.76	PASS	30-150
N062938-010C	SAMP	1	22976.2	25199.5	91.18	PASS	30-150	69049.3	82865.2	83.33	PASS	30-150
N062938-012C	SAMP	1	21207.1	25199.5	84.16	PASS	30-150	64196.3	82865.2	77.47	PASS	30-150
N062938-013C	SAMP	1	22193.9	25199.5	88.07	PASS	30-150	66704.2	82865.2	80.5	PASS	30-150
N062938-014C	SAMP	1	21391.8	25199.5	84.89	PASS	30-150	65332	82865.2	78.84	PASS	30-150
CCV16	CCV	1	23553.7	25199.5	93.47	PASS	30-150	72445.1	82865.2	87.43	PASS	30-150
CCB16	CCB	1	22990.6	25199.5	91.23	PASS	30-150	72012	82865.2	86.9	PASS	30-150
N062938-015C	SAMP	1	19764.2	25199.5	78.43	PASS	30-150	57689	82865.2	69.62	PASS	30-150
N062938-016C	SAMP	1	18552.8	25199.5	73.62	PASS	30-150	51813.9	82865.2	62.53	PASS	30-150
N062938-017C	SAMP	1	20486.2	25199.5	81.3	PASS	30-150	59060.5	82865.2	71.27	PASS	30-150
N062938-017C	SAMP	10	22535.6	25199.5	89.43	PASS	30-150	68283.9	82865.2	82.4	PASS	30-150
N062938-018C	SAMP	1	21705.6	25199.5	86.14	PASS	30-150	64836.7	82865.2	78.24	PASS	30-150
CCV17	CCV	1	23058.5	25199.5	91.5	PASS	30-150	71698.5	82865.2	86.52	PASS	30-150

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Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB17	CCB	1	23188.7	25199.5	92.02	PASS	30-150	70668.4	82865.2	85.28	PASS	30-150
ICSA7	ICSA	1	22565.6	25199.5	89.55	PASS	30-150	69473.3	82865.2	83.84	PASS	30-150
ICSAB7	ICSAB	1	21707.8	25199.5	86.14	PASS	30-150	65522.7	82865.2	79.07	PASS	30-150

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Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	634704.1	634704.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	630990.6	634704.1	99.41	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	629066.3	634704.1	99.11	PASS	30-150
Std3-5/50 ppb	ICAL	1	633277.1	634704.1	99.78	PASS	30-150
Std4-10/100 ppb	ICAL	1	626545.8	634704.1	98.71	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	633086	634704.1	99.75	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	637402.8	634704.1	100.43	PASS	30-150
Std7-100/1000 ppb	ICAL	1	640309.4	634704.1	100.88	PASS	30-150
Std8-200/2000 ppb	ICAL	1	633331.8	634704.1	99.78	PASS	30-150
ICV	ICV	1	622742.8	634704.1	98.12	PASS	30-150
ICB	ICB	1	622875.6	634704.1	98.14	PASS	30-150
LLICV1	LLICV	1	626372.5	634704.1	98.69	PASS	30-150
MLCCV	CCV	1	630772.5	634704.1	99.38	PASS	30-150
ICSA1	ICSA	1	615100.3	634704.1	96.91	PASS	30-150
ICSAB1	ICSAB	1	564720.3	634704.1	88.97	PASS	30-150
LLICV1	LLICV	1	655180.6	634704.1	103.23	PASS	30-150
CCV1	CCV	1	566542.3	634704.1	89.26	PASS	30-150
CCB1	CCB	1	663087.4	634704.1	104.47	PASS	30-150
CCV2	CCV	1	573469.8	634704.1	90.35	PASS	30-150
CCB2	CCB	1	661298.8	634704.1	104.19	PASS	30-150
ICSA2	ICSA	1	645825.5	634704.1	101.75	PASS	30-150
ICSAB2	ICSAB	1	578129.8	634704.1	91.09	PASS	30-150
CCV3	CCV	1	648138.8	634704.1	102.12	PASS	30-150
CCB3	CCB	1	641207.6	634704.1	101.03	PASS	30-150
CCV4	CCV	1	646266.4	634704.1	101.82	PASS	30-150
CCB4	CCB	1	635857.5	634704.1	100.18	PASS	30-150
CCV5	CCV	1	643822.8	634704.1	101.44	PASS	30-150
CCB5	CCB	1	638071.2	634704.1	100.53	PASS	30-150
CCV6	CCV	1	636105.9	634704.1	100.22	PASS	30-150
CCB6	CCB	1	629993.4	634704.1	99.26	PASS	30-150
CCV7	CCV	1	635274.9	634704.1	100.09	PASS	30-150
CCB7	CCB	1	629521.5	634704.1	99.18	PASS	30-150
CCV8	CCV	1	633836.6	634704.1	99.86	PASS	30-150
CCB8	CCB	1	630054.5	634704.1	99.27	PASS	30-150
ICSA3	ICSA	1	625490.3	634704.1	98.55	PASS	30-150
ICSAB3	ICSAB	1	566380.5	634704.1	89.24	PASS	30-150
CCV9	CCV	1	643674.3	634704.1	101.41	PASS	30-150
CCB9	CCB	1	634540	634704.1	99.97	PASS	30-150
CCV10	CCV	1	642257.2	634704.1	101.19	PASS	30-150
CCB10	CCB	1	642164.4	634704.1	101.18	PASS	30-150
CCV11	CCV	1	641547.3	634704.1	101.08	PASS	30-150

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Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	638367.6	634704.1	100.58	PASS	30-150
ICSA4	ICSA	1	634871.1	634704.1	100.03	PASS	30-150
ICSAB4	ICSAB	1	569797.4	634704.1	89.77	PASS	30-150
CCV12	CCV	1	644399	634704.1	101.53	PASS	30-150
CCB12	CCB	1	643231.1	634704.1	101.34	PASS	30-150
ICSA5	ICSA	1	635101.5	634704.1	100.06	PASS	30-150
ICSAB5	ICSAB	1	569763.9	634704.1	89.77	PASS	30-150
CCV13	CCV	1	649207.7	634704.1	102.29	PASS	30-150
CCB13	CCB	1	643843.4	634704.1	101.44	PASS	30-150
CCV14	CCV	1	621107.5	634704.1	97.86	PASS	30-150
CCB14	CCB	1	614022.3	634704.1	96.74	PASS	30-150
ICSA6	ICSA	1	602151.9	634704.1	94.87	PASS	30-150
ICSAB6	ICSAB	1	532678.8	634704.1	83.93	PASS	30-150
MB-106670	MBLK	1	611832	634704.1	96.4	PASS	30-150
LCS-106670	LCS	1	608091.1	634704.1	95.81	PASS	30-150
N062938-001C	SAMP	1	463984.2	634704.1	73.1	PASS	30-150
N062938-002C	SAMP	1	466197.1	634704.1	73.45	PASS	30-150
N062938-003C	SAMP	1	472000.3	634704.1	74.37	PASS	30-150
N062938-004C	SAMP	1	448794.3	634704.1	70.71	PASS	30-150
N062938-004C	SAMP	5	527307.3	634704.1	83.08	PASS	30-150
N062938-004C-PS	PS	1	467642.7	634704.1	73.68	PASS	30-150
N062938-004C-MS	MS	1	469281.5	634704.1	73.94	PASS	30-150
CCV15	CCV	1	612068	634704.1	96.43	PASS	30-150
CCB15	CCB	1	607037.5	634704.1	95.64	PASS	30-150
N062938-004C-MSD	MSD	1	464685.5	634704.1	73.21	PASS	30-150
N062938-005C	SAMP	1	424535.3	634704.1	66.89	PASS	30-150
N062938-006C	SAMP	1	450537.7	634704.1	70.98	PASS	30-150
N062938-007C	SAMP	1	448903.9	634704.1	70.73	PASS	30-150
N062938-008C	SAMP	1	459117.2	634704.1	72.34	PASS	30-150
N062938-010C	SAMP	1	539015.2	634704.1	84.92	PASS	30-150
N062938-012C	SAMP	1	510474.3	634704.1	80.43	PASS	30-150
N062938-013C	SAMP	1	540394.1	634704.1	85.14	PASS	30-150
N062938-014C	SAMP	1	519922.2	634704.1	81.92	PASS	30-150
CCV16	CCV	1	597356.7	634704.1	94.12	PASS	30-150
CCB16	CCB	1	595766.6	634704.1	93.87	PASS	30-150
N062938-015C	SAMP	1	458991.2	634704.1	72.32	PASS	30-150
N062938-016C	SAMP	1	417676	634704.1	65.81	PASS	30-150
N062938-017C	SAMP	1	473163.2	634704.1	74.55	PASS	30-150
N062938-017C	SAMP	10	540262.4	634704.1	85.12	PASS	30-150
N062938-018C	SAMP	1	522398.4	634704.1	82.31	PASS	30-150
CCV17	CCV	1	595251.8	634704.1	93.78	PASS	30-150

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Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB17	CCB	1	582769.1	634704.1	91.82	PASS	30-150
ICSA7	ICSA	1	586357.7	634704.1	92.38	PASS	30-150
ICSAB7	ICSAB	1	513664	634704.1	80.93	PASS	30-150

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Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	36159.1	36159.1	100	PASS	30-150	21180.4	21180.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	36365.1	36159.1	100.57	PASS	30-150	21385.1	21180.4	100.97	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	36968.7	36159.1	102.24	PASS	30-150	21341.7	21180.4	100.76	PASS	30-150
Std3-5/50 ppb	ICAL	1	36715.9	36159.1	101.54	PASS	30-150	21078	21180.4	99.52	PASS	30-150
Std4-10/100 ppb	ICAL	1	37205.8	36159.1	102.89	PASS	30-150	21330.6	21180.4	100.71	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	36536.6	36159.1	101.04	PASS	30-150	21786.7	21180.4	102.86	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	37189.1	36159.1	102.85	PASS	30-150	21694.4	21180.4	102.43	PASS	30-150
Std7-100/1000 ppb	ICAL	1	37655.7	36159.1	104.14	PASS	30-150	21718.9	21180.4	102.54	PASS	30-150
Std8-200/2000 ppb	ICAL	1	37338.3	36159.1	103.26	PASS	30-150	21622.1	21180.4	102.09	PASS	30-150
ICV	ICV	1	36132.3	36159.1	99.93	PASS	30-150	21098.1	21180.4	99.61	PASS	30-150
ICB	ICB	1	36241.4	36159.1	100.23	PASS	30-150	21001.3	21180.4	99.15	PASS	30-150
LLICV1	LLICV	1	36571.1	36159.1	101.14	PASS	30-150	21425.2	21180.4	101.16	PASS	30-150
MLCCV	CCV	1	37100	36159.1	102.6	PASS	30-150	21349.5	21180.4	100.8	PASS	30-150
ICSA1	ICSA	1	36316.1	36159.1	100.43	PASS	30-150	20965.7	21180.4	98.99	PASS	30-150
ICSAB1	ICSAB	1	35459.8	36159.1	98.07	PASS	30-150	19905.5	21180.4	93.98	PASS	30-150
CCV1	CCV	1	37618.9	36159.1	104.04	PASS	30-150	21157.1	21180.4	99.89	PASS	30-150
CCB1	CCB	1	37108.9	36159.1	102.63	PASS	30-150	21149.2	21180.4	99.85	PASS	30-150
ICSA2	ICSA	1	36647.9	36159.1	101.35	PASS	30-150	21456.3	21180.4	101.3	PASS	30-150
ICSAB2	ICSAB	1	35828.4	36159.1	99.09	PASS	30-150	20188.1	21180.4	95.32	PASS	30-150
CCV2	CCV	1	36096.7	36159.1	99.83	PASS	30-150	20907.8	21180.4	98.71	PASS	30-150
CCB2	CCB	1	36572.2	36159.1	101.14	PASS	30-150	20824.4	21180.4	98.32	PASS	30-150
CCV3	CCV	1	36152.4	36159.1	99.98	PASS	30-150	20902.3	21180.4	98.69	PASS	30-150
CCB3	CCB	1	35954.1	36159.1	99.43	PASS	30-150	21033.5	21180.4	99.31	PASS	30-150
CCV4	CCV	1	36624.5	36159.1	101.29	PASS	30-150	20955.7	21180.4	98.94	PASS	30-150
CCB4	CCB	1	37096.7	36159.1	102.59	PASS	30-150	20989	21180.4	99.1	PASS	30-150
CCV5	CCV	1	36917.4	36159.1	102.1	PASS	30-150	21277.2	21180.4	100.46	PASS	30-150
CCB5	CCB	1	36985.3	36159.1	102.28	PASS	30-150	21517.5	21180.4	101.59	PASS	30-150
ICSA3	ICSA	1	36830.5	36159.1	101.86	PASS	30-150	21597.6	21180.4	101.97	PASS	30-150
ICSAB3	ICSAB	1	36267.1	36159.1	100.3	PASS	30-150	20442.8	21180.4	96.52	PASS	30-150
N062938-004C	SAMP	1	32238.8	36159.1	89.16	PASS	30-150	18071.1	21180.4	85.32	PASS	30-150
N062938-004C	SAMP	5	35665.8	36159.1	98.64	PASS	30-150	20241.4	21180.4	95.57	PASS	30-150
N062938-008C	SAMP	1	33555.9	36159.1	92.8	PASS	30-150	18651.8	21180.4	88.06	PASS	30-150
N062938-012C	SAMP	10	35842.8	36159.1	99.13	PASS	30-150	20801.1	21180.4	98.21	PASS	30-150
N062938-013C	SAMP	10	35520	36159.1	98.23	PASS	30-150	20475.1	21180.4	96.67	PASS	30-150
N062938-017C	SAMP	1	33241.9	36159.1	91.93	PASS	30-150	18723	21180.4	88.4	PASS	30-150
N062938-018C	SAMP	10	35813.8	36159.1	99.05	PASS	30-150	20705.3	21180.4	97.76	PASS	30-150
CCV6	CCV	1	36926.3	36159.1	102.12	PASS	30-150	21186	21180.4	100.03	PASS	30-150
CCB6	CCB	1	36741.5	36159.1	101.61	PASS	30-150	21000.1	21180.4	99.15	PASS	30-150
N062938-004C	SAMP	1	31651.1	36159.1	87.53	PASS	30-150	17757.4	21180.4	83.84	PASS	30-150
N062938-008C	SAMP	1	32568.4	36159.1	90.07	PASS	30-150	18497.1	21180.4	87.33	PASS	30-150
N062938-017C	SAMP	1	33327.7	36159.1	92.17	PASS	30-150	18558.3	21180.4	87.62	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062938-004C	SAMP	1	31735.7	36159.1	87.77	PASS	30-150	17713	21180.4	83.63	PASS	30-150
N062938-008C	SAMP	1	32785.5	36159.1	90.67	PASS	30-150	18301.4	21180.4	86.41	PASS	30-150
N062938-017C	SAMP	1	33804.1	36159.1	93.49	PASS	30-150	18781.9	21180.4	88.68	PASS	30-150
CCV7	CCV	1	37743.7	36159.1	104.38	PASS	30-150	21726.6	21180.4	102.58	PASS	30-150
CCB7	CCB	1	37269.3	36159.1	103.07	PASS	30-150	21735.6	21180.4	102.62	PASS	30-150
ICSA4	ICSA	1	36458.6	36159.1	100.83	PASS	30-150	21315	21180.4	100.64	PASS	30-150
ICSAB4	ICSAB	1	34963.2	36159.1	96.69	PASS	30-150	19800.9	21180.4	93.49	PASS	30-150
CCV8	CCV	1	34959.9	36159.1	96.68	PASS	30-150	19918.8	21180.4	94.04	PASS	30-150
CCB8	CCB	1	34762.7	36159.1	96.14	PASS	30-150	20244.8	21180.4	95.58	PASS	30-150
CCV9	CCV	1	36350.6	36159.1	100.53	PASS	30-150	21009.1	21180.4	99.19	PASS	30-150
CCB9	CCB	1	35990.9	36159.1	99.53	PASS	30-150	20735.4	21180.4	97.9	PASS	30-150
CCV10	CCV	1	36711.4	36159.1	101.53	PASS	30-150	21149.3	21180.4	99.85	PASS	30-150
CCB10	CCB	1	35913	36159.1	99.32	PASS	30-150	20847.7	21180.4	98.43	PASS	30-150
ICSA5	ICSA	1	35482.1	36159.1	98.13	PASS	30-150	20838.8	21180.4	98.39	PASS	30-150
ICSAB5	ICSAB	1	34043.6	36159.1	94.15	PASS	30-150	19442.7	21180.4	91.8	PASS	30-150
N062938-004C	SAMP	1	30006.9	36159.1	82.99	PASS	30-150	16780.9	21180.4	79.23	PASS	30-150
N062938-008C	SAMP	1	31322.7	36159.1	86.62	PASS	30-150	17652.9	21180.4	83.35	PASS	30-150
N062938-017C	SAMP	1	31726.8	36159.1	87.74	PASS	30-150	18224.6	21180.4	86.05	PASS	30-150
N062938-004C	SAMP	1	30117.1	36159.1	83.29	PASS	30-150	17030	21180.4	80.4	PASS	30-150
N062938-008C	SAMP	1	31442.8	36159.1	86.96	PASS	30-150	18033.3	21180.4	85.14	PASS	30-150
N062938-017C	SAMP	1	32449.3	36159.1	89.74	PASS	30-150	18377	21180.4	86.76	PASS	30-150
CCV11	CCV	1	36616.7	36159.1	101.27	PASS	30-150	21269.4	21180.4	100.42	PASS	30-150
CCB11	CCB	1	35888.5	36159.1	99.25	PASS	30-150	21145.9	21180.4	99.84	PASS	30-150
ICSA6	ICSA	1	35089	36159.1	97.04	PASS	30-150	20423.9	21180.4	96.43	PASS	30-150
ICSAB6	ICSAB	1	33749.6	36159.1	93.34	PASS	30-150	19292.5	21180.4	91.09	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062938
Test Method: EPA 6020
Analysis Date: 2/8/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106670

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Se & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062938-004C DT 5x	Barium	Ba	µg/L	51.12924	PASS	50.14197	1.97%	10
N062938-004C DT 5x	Manganese	Mn	µg/L	26.56666	PASS	26.19277	1.43%	10
N062938-004C DT 5x	Molybdenum	Mo	µg/L	32.93838	PASS	34.91626	5.66%	10
N062938-004C DT 5x	Selenium	Se	µg/L	0.2272934	NA	0.2705774	16.00%	10
N062938-004C DT 5x	Arsenic	As	µg/L	0.7961079	NA	0.976129	18.44%	10
N062938-004C DT 5x	Chromium	Cr	µg/L	32.7514	PASS	32.76553	0.04%	10

Reviewed by:

 3/3/2024

Note: NA - Not Applicable

02/21/24 22:36

DT_EPA 6020_N062938_106670

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062938
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062938-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ZZZZZZ	Batch ID: 106670	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	59.730	1.0	10.00	50.14	95.9	80	120				
Manganese	117.108	0.50	100.0	26.19	90.9	80	120				
Molybdenum	45.237	0.50	10.00	34.92	103	80	120				
Selenium	9.319	0.50	10.00	0.2706	90.5	80	120				

Sample ID: N062938-004C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181346						
Client ID: ZZZZZZ	Batch ID: 106670	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5700983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.640	0.10	10.00	0.9761	96.6	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062938
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062938-004C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181347						
Client ID: ZZZZZZ	Batch ID: 106670	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5680811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	41.582	1.0	10.00	32.77	88.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

MDL STUDY



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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

CALIFORNIA

11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 P:562.219.7435 F:562.219.7436
 ELAP Cert 2921 | EPA ID CA01638

NEVADA

3151 W. Post Rd., Las Vegas, NV 89118
 P:702.307.2659 F:702.307.2691
 ELAP Cert 2676 | NV Cert NV00922 | ORELAP/NELAP Cert 4046



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 502013
Report Level: IV
Report Date: 02/26/2024

Total Organic Carbon by IR

Analytical Report *prepared for:*

Yoandra Rodriguez
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N062940

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Yoandra Rodriguez
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 502013
 Location: N062940
 Date Received: 02/09/24

Sample ID	Lab ID	Collected	Matrix
N062940-001A/TW-02D-Q124	502013-001	02/06/24 10:21	Water
N062940-002A/MW-920-Q124	502013-002	02/06/24 09:57	Water
N062940-003A/TW-02S-Q124	502013-003	02/06/24 09:47	Water
N062940-004A/TW-03D-Q124	502013-004	02/06/24 10:54	Water
N062940-005A/MW-82-046-Q124	502013-005	02/06/24 11:56	Water
N062940-006A/MW-82-112-Q124	502013-006	02/06/24 08:58	Water
N062940-007A/MW-82-168-Q124	502013-007	02/06/24 12:36	Water
N062940-008A/MW-82-198-Q124	502013-008	02/06/24 13:12	Water
N062940-009A/MW-39-040-Q124	502013-009	02/06/24 13:30	Water
N062940-010A/MW-39-050-Q124	502013-010	02/06/24 12:09	Water
N062940-011A/MW-39-060-Q124	502013-011	02/06/24 11:43	Water
N062940-012A/MW-39-070-Q124	502013-012	02/06/24 13:05	Water
N062940-013A/MW-39-080-Q124	502013-013	02/06/24 12:38	Water
N062940-014A/MW-39-100-Q124	502013-014	02/06/24 11:18	Water
N062940-015A/MW-30-030R-Q124	502013-015	02/06/24 10:12	Water
N062940-016A/MW-30-050-Q124	502013-016	02/06/24 09:35	Water

Case Narrative

TOTAL ORGANIC CARBON BY IR (SM 5310B)

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Yoandra Rodriguez

Lab Job 502013
Number:
Location: N062940
Date Received: 02/09/24

This data package contains sample and QC results for sixteen water samples, requested for the above referenced project on 02/09/24. See attached cooler receipt form for any sample receipt problems or discrepancies.

Chain of Custody

502013

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Field Sampler: Riggle Tep

08-Feb-24

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				SMS310B	
N062940-001A / TW-02D-Q124	Groundwater	2/6/2024 10:21:00 AM	8OZA	1	
N062940-002A / MW-920-Q124	Groundwater	2/6/2024 9:57:00 AM	8OZA	1	
N062940-003A / TW-02S-Q124	Groundwater	2/6/2024 9:47:00 AM	8OZA	1	
N062940-004A / TW-03D-Q124	Groundwater	2/6/2024 10:54:00 AM	8OZA	1	(MS/MSD)
N062940-005A / MW-82-046-Q124	Groundwater	2/6/2024 11:56:00 AM	8OZA	1	
N062940-006A / MW-82-112-Q124	Groundwater	2/6/2024 8:58:00 AM	8OZA	1	
N062940-007A / MW-82-168-Q124	Groundwater	2/6/2024 12:36:00 PM	8OZA	1	
N062940-008A / MW-82-198-Q124	Groundwater	2/6/2024 1:12:00 PM	8OZA	1	
N062940-009A / MW-39-040-Q124	Groundwater	2/6/2024 1:30:00 PM	8OZA	1	
N062940-010A / MW-39-050-Q124	Groundwater	2/6/2024 12:09:00 PM	8OZA	1	
N062940-011A / MW-39-060-Q124	Groundwater	2/6/2024 11:43:00 AM	8OZA	1	
N062940-012A / MW-39-070-Q124	Groundwater	2/6/2024 11:05:00 PM	8OZA	1	
N062940-013A / MW-39-080-Q124	Groundwater	2/6/2024 12:38:00 PM	8OZA	1	
N062940-014A / MW-39-100-Q124	Groundwater	2/6/2024 11:18:00 AM	8OZA	1	
N062940-015A / MW-30-030R-Q124	Groundwater	2/6/2024 10:12:00 AM	8OZA	1	
N062940-016A / MW-30-050-Q124	Groundwater	2/6/2024 9:35:00 AM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#:N62940A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call
 Marion at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.
 Please analyze for TOC by SMS310B. EDD requirement Labspec7 edata.

GILS #: 560921169

Relinquished by: <u>V Rodriguez</u>	Date/Time: <u>2/8/2024 1630</u>
Relinquished by: _____	Date/Time: _____
Received by: _____	Date/Time: <u>2/09/24 10:00AM</u>
Received by: _____	Date/Time: _____

2/7/24



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

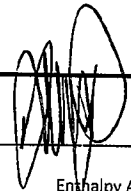
Section 1
 Client: ASSET LABS Project: _____
 Date Received: 2/09/24 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 5.1 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: GLS # 560922269

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 2.7 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	/		
Are sample IDs present?	/		
Are sampling dates & times present?	/		
Is a relinquished signature present?	/		
Are the tests required clearly indicated on the COC?	/		
Are custody seals present?		/	
If custody seals are present, were they intact?			/
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	/		
Did all samples arrive intact? If no, indicate in Section 4 below.	/		
Did all bottle labels agree with COC? (ID, dates and times)	/		
Were the samples collected in the correct containers for the required tests?	/		
Are the containers labeled with the correct preservatives?	/		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			/
Was a sufficient amount of sample submitted for the requested tests?	/		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:


Completed By: _____ Date: 2/09/24

Results & QC Summary

Total Organic Carbon by High-Temperature

Lab #: 502013	Project#: STANDARD	
Client: Asset Laboratories	Location: N062940	
Field ID: N062940-001A/TW-02D-Q124	Diln Fac: 1.000	Analyzed: 02/15/24
Type: SAMPLE	Batch#: 332935	Prep:
Lab ID: 502013-001	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-001 Analyte		Result
Total Organic Carbon		1.4
		RL
		1.0
		Units
		mg/L
Field ID: N062940-002A/MW-920-Q124	Diln Fac: 1.000	Analyzed: 02/15/24
Type: SAMPLE	Batch#: 332935	Prep:
Lab ID: 502013-002	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-002 Analyte		Result
Total Organic Carbon		1.7
		RL
		1.0
		Units
		mg/L
Field ID: N062940-003A/TW-02S-Q124	Diln Fac: 1.000	Analyzed: 02/15/24
Type: SAMPLE	Batch#: 332935	Prep:
Lab ID: 502013-003	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-003 Analyte		Result
Total Organic Carbon		1.7
		RL
		1.0
		Units
		mg/L
Field ID: N062940-004A/TW-03D-Q124	Diln Fac: 1.000	Analyzed: 02/22/24
Type: SAMPLE	Batch#: 333568	Prep:
Lab ID: 502013-004	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-004 Analyte		Result
Total Organic Carbon		2.2
		RL
		1.0
		Units
		mg/L
Field ID: N062940-005A/MW-82-046-Q124	Diln Fac: 2.000	Analyzed: 02/15/24
Type: SAMPLE	Batch#: 332935	Prep:
Lab ID: 502013-005	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-005 Analyte		Result
Total Organic Carbon		30
		RL
		2.0
		Units
		mg/L
Field ID: N062940-006A/MW-82-112-Q124	Diln Fac: 1.000	Analyzed: 02/15/24
Type: SAMPLE	Batch#: 332935	Prep:
Lab ID: 502013-006	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-006 Analyte		Result
Total Organic Carbon		1.1
		RL
		1.0
		Units
		mg/L

Total Organic Carbon by High-Temperature

Lab #: 502013 Client: Asset Laboratories	Project#: STANDARD Location: N062940			
Field ID: N062940-007A/MW-82-168-Q124 Type: SAMPLE Lab ID: 502013-007 Matrix: Water	Diln Fac: 1.000 Batch#: 332935 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/15/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-007 Analyte		Result	RL	Units
Total Organic Carbon		1.7	1.0	mg/L
Field ID: N062940-008A/MW-82-198-Q124 Type: SAMPLE Lab ID: 502013-008 Matrix: Water	Diln Fac: 1.000 Batch#: 332935 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/15/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-008 Analyte		Result	RL	Units
Total Organic Carbon		2.2	1.0	mg/L
Field ID: N062940-009A/MW-39-040-Q124 Type: SAMPLE Lab ID: 502013-009 Matrix: Water	Diln Fac: 1.000 Batch#: 332935 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/15/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-009 Analyte		Result	RL	Units
Total Organic Carbon		9.4	1.0	mg/L
Field ID: N062940-010A/MW-39-050-Q124 Type: SAMPLE Lab ID: 502013-010 Matrix: Water	Diln Fac: 1.000 Batch#: 332935 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/15/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-010 Analyte		Result	RL	Units
Total Organic Carbon		2.3	1.0	mg/L
Field ID: N062940-011A/MW-39-060-Q124 Type: SAMPLE Lab ID: 502013-011 Matrix: Water	Diln Fac: 1.000 Batch#: 333568 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/22/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-011 Analyte		Result	RL	Units
Total Organic Carbon		2.2	1.0	mg/L
Field ID: N062940-012A/MW-39-070-Q124 Type: SAMPLE Lab ID: 502013-012 Matrix: Water	Diln Fac: 1.000 Batch#: 333568 Sampled: 02/06/24 Received: 02/09/24	Analyzed: 02/22/24 Prep: Analysis: SM 5310B Analyst: EPL		
502013-012 Analyte		Result	RL	Units
Total Organic Carbon		1.8	1.0	mg/L

Total Organic Carbon by High-Temperature

Lab #: 502013	Project#: STANDARD	
Client: Asset Laboratories	Location: N062940	
Field ID: N062940-013A/MW-39-080-Q124	Diln Fac: 1.000	Analyzed: 02/22/24
Type: SAMPLE	Batch#: 333568	Prep:
Lab ID: 502013-013	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-013 Analyte		Result
Total Organic Carbon		2.7
		RL
		1.0
		Units
		mg/L
Field ID: N062940-014A/MW-39-100-Q124	Diln Fac: 1.000	Analyzed: 02/22/24
Type: SAMPLE	Batch#: 333568	Prep:
Lab ID: 502013-014	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-014 Analyte		Result
Total Organic Carbon		2.2
		RL
		1.0
		Units
		mg/L
Field ID: N062940-015A/MW-30-030R-Q124	Diln Fac: 2.000	Analyzed: 02/22/24
Type: SAMPLE	Batch#: 333568	Prep:
Lab ID: 502013-015	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-015 Analyte		Result
Total Organic Carbon		32
		RL
		2.0
		Units
		mg/L
Field ID: N062940-016A/MW-30-050-Q124	Diln Fac: 1.000	Analyzed: 02/22/24
Type: SAMPLE	Batch#: 333568	Prep:
Lab ID: 502013-016	Sampled: 02/06/24	Analysis: SM 5310B
Matrix: Water	Received: 02/09/24	Analyst: EPL
502013-016 Analyte		Result
Total Organic Carbon		2.5
		RL
		1.0
		Units
		mg/L
Type: BLANK	Diln Fac: 1.000	Prep:
Lab ID: QC1127900	Batch#: 332935	Analysis: SM 5310B
Matrix: Water	Analyzed: 02/14/24	Analyst: EPL
QC1127900 Analyte		Result
Total Organic Carbon		ND
		RL
		1.0
		Units
		mg/L
Type: BLANK	Diln Fac: 1.000	Prep:
Lab ID: QC1129977	Batch#: 333568	Analysis: SM 5310B
Matrix: Water	Analyzed: 02/22/24	Analyst: EPL
QC1129977 Analyte		Result
Total Organic Carbon		ND
		RL
		1.0
		Units
		mg/L

Legend

ND: Not Detected

RL: Reporting Limit

Total Organic Carbon by High-Temperature: Batch QC

Lab #: 502013		Project#: STANDARD			
Client: Asset Laboratories		Location: N062940			
Type: LCS	Diln Fac: 1.000	Prep:			
Lab ID: QC1127901	Batch#: 332935	Analysis: SM 5310B			
Matrix: Water	Analyzed: 02/14/24	Analyst: EPL			
QC1127901 Analyte	Spiked	Result	%REC	Limits	Units
Total Organic Carbon	25.00	24.70	99	80-120	mg/L

Total Organic Carbon by High-Temperature: Batch QC

Lab #: 502013	Project#: STANDARD	
Client: Asset Laboratories	Location: N062940	
Field ID: N062967-001A/MW-34-055-Q124	Diln Fac: 1.000	Prep:
Type: MS	Batch#: 332935	Analysis: SM 5310B
MSS Lab ID: 502011-001	Sampled: 02/07/24	Analyst: EPL
Lab ID: QC1127902	Received: 02/09/24	
Matrix: Water	Analyzed: 02/14/24	

QC1127902 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Total Organic Carbon	3.405	25.00	29.75	105	80-120	mg/L

Field ID: N062967-001A/MW-34-055-Q124	Diln Fac: 1.000	Prep:
Type: MSD	Batch#: 332935	Analysis: SM 5310B
MSS Lab ID: 502011-001	Sampled: 02/07/24	Analyst: EPL
Lab ID: QC1127903	Received: 02/09/24	
Matrix: Water	Analyzed: 02/14/24	

QC1127903 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Total Organic Carbon	25.00	29.11	103	80-120	mg/L	2	20

Legend
 RPD: Relative Percent
 Difference

Total Organic Carbon by High-Temperature: Batch QC

Lab #: 502013	Project#: STANDARD	
Client: Asset Laboratories	Location: N062940	
Field ID: N062967-013A/MW-79-102-Q124	Diln Fac: 1.000	Prep:
Type: MS	Batch#: 332935	Analysis: SM 5310B
MSS Lab ID: 502011-013	Sampled: 02/07/24	Analyst: EPL
Lab ID: QC1127904	Received: 02/09/24	
Matrix: Water	Analyzed: 02/14/24	

QC1127904 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Total Organic Carbon	1.866	25.00	29.81	112	80-120	mg/L

Field ID: N062967-013A/MW-79-102-Q124	Diln Fac: 1.000	Prep:
Type: MSD	Batch#: 332935	Analysis: SM 5310B
MSS Lab ID: 502011-013	Sampled: 02/07/24	Analyst: EPL
Lab ID: QC1127905	Received: 02/09/24	
Matrix: Water	Analyzed: 02/14/24	

QC1127905 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Total Organic Carbon	25.00	29.04	109	80-120	mg/L	3	20

Legend
 RPD: Relative Percent
 Difference

Total Organic Carbon by High-Temperature: Batch QC

Lab #: 502013		Project#: STANDARD			
Client: Asset Laboratories		Location: N062940			
Type: LCS	Diln Fac: 1.000	Prep:			
Lab ID: QC1129978	Batch#: 333568	Analysis: SM 5310B			
Matrix: Water	Analyzed: 02/22/24	Analyst: EPL			
QC1129978 Analyte	Spiked	Result	%REC	Limits	Units
Total Organic Carbon	25.00	25.00	100	80-120	mg/L

Total Organic Carbon by High-Temperature: Batch QC

Lab #: 502013	Project#: STANDARD	
Client: Asset Laboratories	Location: N062940	
Field ID: N062940-004A/TW-03D-Q124	Diln Fac: 1.000	Prep:
Type: MS	Batch#: 333568	Analysis: SM 5310B
MSS Lab ID: 502013-004	Sampled: 02/06/24	Analyst: EPL
Lab ID: QC1129979	Received: 02/09/24	
Matrix: Water	Analyzed: 02/22/24	

QC1129979 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Total Organic Carbon	2.170	25.00	29.30	109	80-120	mg/L

Field ID: N062940-004A/TW-03D-Q124	Diln Fac: 1.000	Prep:
Type: MSD	Batch#: 333568	Analysis: SM 5310B
MSS Lab ID: 502013-004	Sampled: 02/06/24	Analyst: EPL
Lab ID: QC1129980	Received: 02/09/24	
Matrix: Water	Analyzed: 02/22/24	

QC1129980 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Total Organic Carbon	25.00	28.05	104	80-120	mg/L	4	20

Legend
 RPD: Relative Percent
 Difference

Instrument: CHEM-TOC01
Method: SM 5310B

Begun: 02/14/24 08:15

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	202402140815001	UNKNOWN	TC RINSE (20)			02/14/24 08:15	1.0		
002	202402140815002	CCV	CCV_TC_50 PPM			02/14/24 09:06	1.0	1	
003	202402140815003	UNKNOWN	XCCV			02/14/24 09:17	1.0	2	
004	202402140815004	CCV	CCV_IC_50 PPM			02/14/24 09:58	1.0	2	
005	202402140815005	CCV	CCV_TC_10 PPM			02/14/24 10:07	1.0	1	
006	202402140815006	CCV	CCV_IC_10 PPM			02/14/24 10:22	1.0	2	
007	202402140815007	CCB				02/14/24 10:29	1.0		
008	202402140815008	BLANK	QC1127900	Water	332935	02/14/24 10:41	1.0		
009	202402140815009	LCS	QC1127901	Water	332935	02/14/24 10:59	1.0	1 2	
010	202402140815010	MSS	502011-001	Water	332935	02/14/24 11:14	1.0		
011	202402140815011	MS	QC1127902	Water	332935	02/14/24 11:28	1.0	1 2	
012	202402140815012	MSD	QC1127903	Water	332935	02/14/24 11:42	1.0	1 2	
013	202402140815013	MSS	502011-013	Water	332935	02/14/24 11:56	1.0		
014	202402140815014	MS	QC1127904	Water	332935	02/14/24 12:10	1.0	1 2	
015	202402140815015	MSD	QC1127905	Water	332935	02/14/24 12:24	1.0	1 2	
016	202402140815016	CCV	CCV_TC_50 PPM			02/14/24 12:40	1.0	1	
017	202402140815017	CCV	CCV_IC_50 PPM			02/14/24 13:03	1.0	2	
018	202402140815018	CCV	CCV_TC_10 PPM			02/14/24 13:12	1.0	1	
019	202402140815019	CCV				02/14/24 13:27	1.0	2	
020	202402140815020	CCV				02/14/24 18:24	1.0	2	
021	202402140815021	CCV				02/14/24 20:32	1.0	2	
022	202402140815022	CCB				02/14/24 20:39	1.0		
023	202402140815023	SAMPLE	502011-007	Water	332935	02/14/24 21:53	1.0		
024	202402140815024	SAMPLE	502011-008	Water	332935	02/14/24 22:07	1.0		
025	202402140815025	SAMPLE	502011-009	Water	332935	02/14/24 22:21	1.0		
026	202402140815026	SAMPLE	502011-010	Water	332935	02/14/24 22:34	1.0		
027	202402140815027	SAMPLE	502011-011	Water	332935	02/14/24 22:48	1.0		
028	202402140815028	SAMPLE	502011-012	Water	332935	02/14/24 23:02	1.0		
029	202402140815029	SAMPLE	502011-014	Water	332935	02/14/24 23:19	1.0		
030	202402140815030	SAMPLE	502011-015	Water	332935	02/14/24 23:33	1.0		
031	202402140815031	SAMPLE	502011-016	Water	332935	02/14/24 23:47	1.0		
032	202402140815032	SAMPLE	502013-001	Water	332935	02/15/24 00:03	1.0		
033	202402140815033	CCV	CCV_TC_50 PPM			02/15/24 00:20	1.0	1	
034	202402140815034	CCV	CCV_IC_50 PPM			02/15/24 00:31	1.0	2	
035	202402140815035	CCV	CCV_TC_10 PPM			02/15/24 00:40	1.0	1	
036	202402140815036	CCV	CCV_IC_10 PPM			02/15/24 00:52	1.0	2	
037	202402140815037	CCB				02/15/24 00:58	1.0		
038	202402140815038	BLANK	QC1127900	Water	332935	02/15/24 01:11	1.0		
039	202402140815039	SAMPLE	502013-002	Water	332935	02/15/24 01:28	1.0		
040	202402140815040	SAMPLE	502013-003	Water	332935	02/15/24 01:42	1.0		
041	202402140815041	SAMPLE	502013-005	Water	332935	02/15/24 01:56	1.0		2:TOTC=240
042	202402140815042	SAMPLE	502013-006	Water	332935	02/15/24 02:15	1.0		
043	202402140815043	SAMPLE	502013-007	Water	332935	02/15/24 02:36	1.0		
044	202402140815044	SAMPLE	502013-008	Water	332935	02/15/24 02:50	1.0		
045	202402140815045	SAMPLE	502013-009	Water	332935	02/15/24 03:08	1.0		
046	202402140815046	SAMPLE	502013-010	Water	332935	02/15/24 03:22	1.0		
047	202402140815047	CCV	CCV_TC_50 PPM			02/15/24 03:38	1.0	1	
048	202402140815048	CCV	CCV_IC_50 PPM			02/15/24 03:53	1.0	2	
049	202402140815049	CCV	CCV_TC_10 PPM			02/15/24 04:05	1.0	1	
050	202402140815050	CCV	CCV_IC_10 PPM			02/15/24 04:20	1.0	2	
051	202402140815051	CCB				02/15/24 04:26	1.0		
052	202402140815052	SAMPLE	502013-005	Water	332935	02/15/24 08:30	2.0		
053	202402140815053	CCV	CCV_TC_50 PPM			02/15/24 08:53	1.0	1	
054	202402140815054	CCV	CCV_IC_50 PPM			02/15/24 09:08	1.0	2	
055	202402140815055	CCV	CCV_TC_10 PPM			02/15/24 09:20	1.0	1	

Instrument: CHEM-TOC01

Begun: 02/14/24 08:15

Method: SM 5310B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
056	202402140815056	CCV	CCV_IC_10 PPM			02/15/24 09:29	1.0	2	
057	202402140815057	CCB				02/15/24 09:37	1.0		

Standards Used:
1=S19972 2=S19305

	Type	Analysis	Sample Name	Sample ID	Origin	Manu	Result	Notes	Comment	Status
1	Unknown	TC	TC Rinse (20)	Untitled	TC	1.0	TC:0.2497mg/L			Complete
2	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:52.02mg/L			Complete
3	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:55.32mg/L		Rerun	Complete
4	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:51.90mg/L			Complete
5	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.26mg/L			Complete
6	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.38mg/L			Complete
7	Unknown	TOC	CCB		CCB	1.0	TOC:0.09149mg/L TC:0.2636mg/L IC:0.1721mg/L			Complete
8	Unknown	TOC	BLANK.QC1127900.332935		231	1.0	TOC:0.1376mg/L TC:0.2989mg/L IC:0.1613mg/L		pH=6, LOT#HC325179 2/13/24 1444 EPL	Complete
9	Unknown	TOC	LCS.QC1127901.332935.S19972.40X.S19305.40X		231	1.0	TOC:24.70mg/L TC:51.47mg/L IC:26.77mg/L		pH=8	Complete
10	Unknown	TOC	MSS.502011-001.332935		231	1.0	TOC:3.405mg/L TC:34.02mg/L IC:30.62mg/L		pH<2	Complete
11	Unknown	TOC	MS.QC1127902.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.75mg/L TC:68.68mg/L IC:38.93mg/L			Complete
12	Unknown	TOC	MSD.QC1127903.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.11mg/L TC:69.39mg/L IC:40.28mg/L			Complete
13	Unknown	TOC	MSS.502011-013.332935		231	1.0	TOC:1.866mg/L TC:28.58mg/L IC:26.71mg/L		pH<2	Complete
14	Unknown	TOC	MS.QC1127904.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.81mg/L TC:67.93mg/L IC:38.12mg/L			Complete
15	Unknown	TOC	MSD.QC1127905.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.04mg/L TC:67.73mg/L IC:38.69mg/L			Complete
16	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:49.12mg/L			Complete
17	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.11mg/L			Complete
18	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.21mg/L			Complete
19	Control	IC	CCV.S19305.100X//R1	CCV_IC_10 ppm	CCV	1.0	IC:11.14mg/L			Complete
20	Control	IC	CCV.S19305.100X//R2	CCV_IC_10 ppm	CCV	1.0	IC:11.24mg/L		Only sample affected in above bracket is BLANK. To be analyzed in last bracket	Complete
21	Control	IC	CCV.S19305.100X//R3	CCV_IC_10 ppm	CCV	1.0	IC:10.21mg/L		Remade CCV analyzed to continue next bracket	Complete
22	Unknown	TOC	CCB		CCB	1.0	TOC:0.1074mg/L TC:0.3003mg/L IC:0.1929mg/L			Complete
23	Unknown	TOC	502011-007.332935		231	1.0	TOC:2.937mg/L TC:41.59mg/L IC:38.66mg/L		pH<2	Complete
24	Unknown	TOC	502011-008.332935		231	1.0	TOC:2.607mg/L TC:42.74mg/L IC:40.13mg/L		pH<2	Complete
25	Unknown	TOC	502011-009.332935		231	1.0	TOC:2.435mg/L TC:41.59mg/L IC:39.16mg/L		pH<2	Complete
26	Unknown	TOC	502011-010.332935		231	1.0	TOC:1.282mg/L TC:30.87mg/L IC:29.59mg/L		pH<2	Complete
27	Unknown	TOC	502011-011.332935		231	1.0	TOC:1.671mg/L TC:37.83mg/L IC:36.16mg/L		pH<2	Complete
28	Unknown	TOC	502011-012.332935		231	1.0	TOC:2.455mg/L TC:37.40mg/L IC:34.95mg/L		pH<2	Complete
29	Unknown	TOC	502011-014.332935		231	1.0	TOC:1.764mg/L TC:39.11mg/L IC:37.35mg/L		pH<2	Complete
30	Unknown	TOC	502011-015.332935		231	1.0	TOC:2.003mg/L TC:31.69mg/L IC:29.68mg/L		pH<2	Complete
31	Unknown	TOC	502011-016.332935		231	1.0	TOC:2.318mg/L TC:34.45mg/L IC:32.14mg/L		pH<2	Complete
32	Unknown	TOC	502013-001.332935		231	1.0	TOC:1.425mg/L TC:35.50mg/L IC:34.07mg/L		pH<2	Complete
33	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:51.23mg/L			Complete
34	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.40mg/L			Complete
35	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.26mg/L			Complete
36	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.48mg/L			Complete
37	Unknown	TOC	CCB		CCB	1.0	TOC:0.1555mg/L TC:0.3497mg/L IC:0.1942mg/L			Complete
38	Unknown	TOC	BLANK.QC1127900.332935		231	1.0	TOC:0.1055mg/L TC:0.3773mg/L IC:0.2719mg/L		pH=6, LOT#HC325179 2/13/24 1444 EPL	Complete
39	Unknown	TOC	502013-002.332935		231	1.0	TOC:1.712mg/L TC:33.99mg/L IC:32.28mg/L		pH<2	Complete
40	Unknown	TOC	502013-003.332935		231	1.0	TOC:1.700mg/L TC:33.97mg/L IC:32.27mg/L		pH<2	Complete
41	Unknown	TOC	502013-005.332935//R1 don't use		231	1.0	TOC:25.41mg/L TC:236.4mg/L IC:211.0mg/L		pH<2 TC and IC >LR	Complete
42	Unknown	TOC	502013-006.332935		231	1.0	TOC:1.093mg/L TC:14.30mg/L IC:13.20mg/L		pH<2	Complete
43	Unknown	TOC	502013-007.332935		231	1.0	TOC:1.716mg/L TC:34.77mg/L IC:33.05mg/L		pH<2	Complete
44	Unknown	TOC	502013-008.332935		231	1.0	TOC:2.173mg/L TC:15.18mg/L IC:13.01mg/L		pH<2	Complete
45	Unknown	TOC	502013-009.332935		231	1.0	TOC:9.364mg/L TC:79.91mg/L IC:70.54mg/L		pH<2	Complete
46	Unknown	TOC	502013-010.332935		231	1.0	TOC:2.334mg/L TC:32.11mg/L IC:29.77mg/L		pH<2	Complete
47	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:50.93mg/L			Complete
48	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.20mg/L			Complete
49	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:9.988mg/L			Complete
50	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.61mg/L			Complete
51	Unknown	TOC	CCB		CCB	1.0	TOC:0.06535mg/L TC:0.3426mg/L IC:0.2773mg/L			Complete
52	Unknown	TOC	502013-005.332935//R2	TC Auto DF=2, IC Auto DF=	231	1.0	TOC:30.31mg/L TC:147.5mg/L IC:117.2mg/L		pH<2	Complete
53	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:49.69mg/L			Complete
54	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:53.91mg/L			Complete
55	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.48mg/L			Complete
56	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.49mg/L			Complete
57	Unknown	TOC	CCB		CCB	1.0	TOC:0.1853mg/L TC:0.3934mg/L IC:0.2081mg/L			Complete

	Date / Time	Vial
1	2/14/2024 8:59:15 AM	0
2	2/14/2024 9:11:16 AM	61
3	2/14/2024 9:19:57 AM	62
4	2/14/2024 10:00:46 AM	62
5	2/14/2024 10:16:57 AM	63
6	2/14/2024 10:25:14 AM	64
7	2/14/2024 10:35:59 AM	0
8	2/14/2024 10:52:26 AM	1
9	2/14/2024 11:08:42 AM	2
10	2/14/2024 11:22:18 AM	3
11	2/14/2024 11:36:16 AM	4
12	2/14/2024 11:50:34 AM	5
13	2/14/2024 12:04:12 PM	6
14	2/14/2024 12:18:25 PM	7
15	2/14/2024 12:32:41 PM	8
16	2/14/2024 12:56:55 PM	65
17	2/14/2024 1:05:35 PM	66
18	2/14/2024 1:21:56 PM	67
19	2/14/2024 1:30:20 PM	68
20	2/14/2024 6:32:42 PM	68
21	2/14/2024 8:35:17 PM	68
22	2/14/2024 8:46:05 PM	0
23	2/14/2024 10:01:18 PM	9
24	2/14/2024 10:15:21 PM	10
25	2/14/2024 10:29:08 PM	11
26	2/14/2024 10:42:50 PM	12
27	2/14/2024 10:56:36 PM	13
28	2/14/2024 11:13:23 PM	14
29	2/14/2024 11:27:14 PM	15
30	2/14/2024 11:41:04 PM	16
31	2/14/2024 11:57:57 PM	17
32	2/15/2024 12:11:52 AM	18
33	2/15/2024 12:24:52 AM	65
34	2/15/2024 12:33:39 AM	66
35	2/15/2024 12:46:30 AM	67
36	2/15/2024 12:54:59 AM	68
37	2/15/2024 1:05:52 AM	0
38	2/15/2024 1:22:21 AM	1
39	2/15/2024 1:36:26 AM	19
40	2/15/2024 1:50:21 AM	20
41	2/15/2024 2:10:00 AM	21
42	2/15/2024 2:30:31 AM	22
43	2/15/2024 2:44:27 AM	23
44	2/15/2024 3:02:55 AM	24
45	2/15/2024 3:17:10 AM	25
46	2/15/2024 3:30:53 AM	26
47	2/15/2024 3:47:09 AM	65
48	2/15/2024 3:58:20 AM	66
49	2/15/2024 4:14:01 AM	67
50	2/15/2024 4:22:25 AM	68
51	2/15/2024 4:35:10 AM	0
52	2/15/2024 8:45:09 AM	21
53	2/15/2024 9:02:21 AM	65
54	2/15/2024 9:13:34 AM	66
55	2/15/2024 9:23:25 AM	67
56	2/15/2024 9:34:09 AM	68
57	2/15/2024 9:44:50 AM	0



Initial and Continuing Calibration Verification Summary

ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264065295002	File: 202402140815002	Time: 14-FEB-2024 09:06

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.1410	50.00	52.02	mg/L	4	10	

EPL reviewed 02/19/24 09:11

MCP reviewed 02/19/24 10:10

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264065295004	File: 202402140815004	Time: 14-FEB-2024 09:58

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.2170	50.00	51.90	mg/L	4	10	

EPL reviewed 02/19/24 09:11

MCP reviewed 02/19/24 10:15

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264065295005	File: 202402140815005	Time: 14-FEB-2024 10:07

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9205	10.00	10.26	mg/L	3	10	

EPL reviewed 02/19/24 09:11

MCP reviewed 02/19/24 10:17

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264065295006	File: 202402140815006	Time: 14-FEB-2024 10:22

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.3400	10.00	10.38	mg/L	4	10	

EPL reviewed 02/19/24 09:11

MCP reviewed 02/19/24 10:17

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264065295016	File: 202402140815016	Time: 14-FEB-2024 12:40

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	2.9660	50.00	49.12	mg/L	-2	10	

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:31

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264065295018	File: 202402140815018	Time: 14-FEB-2024 13:12

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9060	10.00	10.21	mg/L	2	10	

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:32

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295019	File: 202402140815019
	Time: 14-FEB-2024 13:27

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.5820	10.00	11.14	mg/L	11	10	c+ ***

+=high bias c=CCV

	02/19/24 09:09	R1 ,CCV_IC_10 ppm	
MCP	02/19/24 10:32	CCV fails high	[Total Inorganic Carbon L]

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:32

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295020	File: 202402140815020
	Time: 14-FEB-2024 18:24

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.6165	10.00	11.24	mg/L	12	10	c+ ***

+=high bias c=CCV

	02/19/24 09:09	R2 ,CCV_IC_10 ppm	
MCP	02/19/24 10:33	CCV fails high	[Total Inorganic Carbon L]

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:33

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295021	File: 202402140815021
	Time: 14-FEB-2024 20:32

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.2855	10.00	10.21	mg/L	2	10	

<input type="checkbox"/> 02/19/24 09:09	<input type="checkbox"/> R3,CCV_IC_10 ppm	<input type="checkbox"/>	<input type="checkbox"/>
---	---	--------------------------	--------------------------

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:34

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264065295033	File: 202402140815033	Time: 15-FEB-2024 00:20

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.0930	50.00	51.23	mg/L	2	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:34

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264065295034	File: 202402140815034	Time: 15-FEB-2024 00:31

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3710	50.00	54.40	mg/L	9	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:34

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264065295035	File: 202402140815035	Time: 15-FEB-2024 00:40

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9225	10.00	10.26	mg/L	3	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:34

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264065295036	File: 202402140815036	Time: 15-FEB-2024 00:52

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.3745	10.00	10.48	mg/L	5	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:34

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264065295047	File: 202402140815047	Time: 15-FEB-2024 03:38

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.0750	50.00	50.93	mg/L	2	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:36

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264065295048	File: 202402140815048	Time: 15-FEB-2024 03:53

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3590	50.00	54.20	mg/L	8	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:36

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264065295049	File: 202402140815049	Time: 15-FEB-2024 04:05

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.8440	10.00	9.988	mg/L	0	10	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:36

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264065295050	File: 202402140815050	Time: 15-FEB-2024 04:20

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.4160	10.00	10.61	mg/L	6	10	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:36

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264065295053	File: 202402140815053	Time: 15-FEB-2024 08:53

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.0000	50.00	49.69	mg/L	-1	10	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:37

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264065295054	File: 202402140815054	Time: 15-FEB-2024 09:08

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3410	50.00	53.91	mg/L	8	10	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:37

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264065295055	File: 202402140815055	Time: 15-FEB-2024 09:20

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9845	10.00	10.48	mg/L	5	10	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:37

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264065295056	File: 202402140815056	Time: 15-FEB-2024 09:29

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.3775	10.00	10.49	mg/L	5	10	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:37

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ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295007	File: 202402140815007
	Time: 14-FEB-2024 10:29

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	ND	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/19/24 09:11

MCP reviewed 02/19/24 10:17

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295022	File: 202402140815022
	Time: 14-FEB-2024 20:39

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.3003	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/19/24 09:12

MCP reviewed 02/19/24 10:34

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 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295037	File: 202402140815037
	Time: 15-FEB-2024 00:58

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.3497	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/19/24 09:13

MCP reviewed 02/19/24 10:34

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 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295051	File: 202402140815051
	Time: 15-FEB-2024 04:26

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.3426	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:36

Print
 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264065295057	File: 202402140815057
	Time: 15-FEB-2024 09:37

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.3934	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/19/24 09:14

MCP reviewed 02/19/24 10:37

Print
 Sort: Default



Raw Data

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:52.02mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.86	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 52.02 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl	Rem.: *****	SD Area: 1.344
Spl. No.: 1	Vial: 61	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	158.0	52.34	2/14/2024 9:06:48 AM	1
TC	156.1	51.71	2/14/2024 9:11:16 AM	2

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:51.90mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.04	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 51.90 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl	Rem.: *****	SD Area: 0.07071
Spl. No.: 1	Vial: 62	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	160.9	51.92	2/14/2024 9:58:19 AM	1
IC	160.8	51.89	2/14/2024 10:00:46 AM	2

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.26mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.07	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.26 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.02121	Spl. No.: 1
Vial: 63		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.41	10.68	2/14/2024 10:07:23 AM	1	1
TC	29.70	10.43	2/14/2024 10:10:42 AM	1	2
TC	29.22	10.26	2/14/2024 10:13:49 AM	0	3
TC	29.19	10.25	2/14/2024 10:16:57 AM	0	4

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.38mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.00	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\CAL_IC_LOW.2023_11_30_11_23_08.cal
Conc.: 10.38	Excluded: 0	Inj. Vol.: 50
Notes: Control value: 10.38 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****
SD Area: 0.000	Spl. No.: 1	Vial: 64

Analysis	Area	Date / Time	Inj. No.
IC	33.40	2/14/2024 10:22:57 AM	1
IC	33.40	2/14/2024 10:25:14 AM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:49.12mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.29	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Inj. Vol.: 50	Notes: Control value: 49.12 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl
Rem.: *****	SD Area: 0.4243	Spl. No.: 1
Vial: 65		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	156.3	51.77	2/14/2024 12:40:49 PM	1	1
TC	153.0	50.68	2/14/2024 12:45:14 PM	1	2
TC	150.8	49.95	2/14/2024 12:49:22 PM	1	3
TC	148.6	49.22	2/14/2024 12:53:11 PM	0	4
TC	148.0	49.02	2/14/2024 12:56:55 PM	0	5

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.21mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.49	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.21 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.1414	Spl. No.: 1
Vial: 67		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.10	10.57	2/14/2024 1:12:22 PM	1	1
TC	29.47	10.35	2/14/2024 1:15:35 PM	1	2
TC	28.96	10.17	2/14/2024 1:18:45 PM	0	3
TC	29.16	10.24	2/14/2024 1:21:56 PM	0	4

TOCControlL Export

Sample Name: CCV,S19305,100X//R1	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:11.14mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.91	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 11.14 / Control exceeds range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.3253
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	36.05	11.21	2/14/2024 1:27:59 PM	1
IC	35.59	11.06	2/14/2024 1:30:20 PM	2

TOCControlL Export

Sample Name: CCV,S19305,100X//R2	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:11.24mg/L	Auto. Dil.: 1.000

Comments: Only sample affected in above bracket is BLANK. To be analyzed in last bracket.

Anal.: IC	CV Area: 0.25	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Inj. Vol.: 50	Notes: Control value: 11.24 / Control exceeds range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl
SD Area: 0.09192	Spl. No.: 1	Vial: 68

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Rem.
IC	37.37	11.62	2/14/2024 6:24:38 PM	1	1	T*****S
IC	65.92	20.58	2/14/2024 6:27:54 PM	1	2	**h***S
IC	36.23	11.26	2/14/2024 6:30:19 PM	0	3	*****
IC	36.10	11.22	2/14/2024 6:32:42 PM	0	4	*****

TOCControlL Export

Sample Name: CCV,S19305,100X//R3	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.21mg/L	Auto. Dil.: 1.000

Comments: Remade CCV analyzed to continue next bracket

Anal.: IC	CV Area: 0.02	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.21 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.00707
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	32.85	10.20	2/14/2024 8:32:52 PM	1
IC	32.86	10.21	2/14/2024 8:35:17 PM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:51.23mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.87	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 51.23 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl	Rem.: *****	SD Area: 1.344
Spl. No.: 1	Vial: 65	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	155.6	51.54	2/15/2024 12:20:20 AM	1
TC	153.7	50.91	2/15/2024 12:24:52 AM	2

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:54.40mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.46	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 54.40 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl	Rem.: *****	SD Area: 0.7778
Spl. No.: 1	Vial: 66	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	169.1	54.58	2/15/2024 12:31:12 AM	1
IC	168.0	54.22	2/15/2024 12:33:39 AM	2

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.26mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.51	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\CAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.26 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.1485	Spl. No.: 1
Vial: 67		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.53	10.72	2/15/2024 12:40:16 AM	1	1
TC	29.12	10.23	2/15/2024 12:43:23 AM	0	2
TC	29.33	10.30	2/15/2024 12:46:30 AM	0	3

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.48mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.02	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.48 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.00707
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	33.75	10.49	2/15/2024 12:52:37 AM	1
IC	33.74	10.48	2/15/2024 12:54:59 AM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:50.93mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.87	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Inj. Vol.: 50	Notes: Control value: 50.93 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl
Rem.: *****	SD Area: 1.344	Spl. No.: 1
Vial: 65		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	157.6	52.20	2/15/2024 3:38:38 AM	1	1
TC	154.7	51.24	2/15/2024 3:42:59 AM	0	2
TC	152.8	50.61	2/15/2024 3:47:09 AM	0	3

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:54.20mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.46	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 54.20 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 0.7778	Spl. No.: 1
Vial: 66		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	170.7	55.09	2/15/2024 3:53:30 AM	1	1
IC	167.4	54.03	2/15/2024 3:55:56 AM	0	2
IC	168.5	54.38	2/15/2024 3:58:20 AM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:9.988mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.65	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 9.988 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.1838	Spl. No.: 1
Vial: 67		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.27	10.63	2/15/2024 4:05:04 AM	1	1
TC	29.00	10.18	2/15/2024 4:08:07 AM	1	2
TC	28.57	10.03	2/15/2024 4:11:09 AM	0	3
TC	28.31	9.942	2/15/2024 4:14:01 AM	0	4

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.61mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.33	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.61 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.1131
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	34.24	10.64	2/15/2024 4:20:02 AM	1
IC	34.08	10.59	2/15/2024 4:22:25 AM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:49.69mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.66	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Inj. Vol.: 50	Notes: Control value: 49.69 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl
SD Area: 0.9899	Spl. No.: 1	Vial: 65

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Rem.
TC	153.6	50.88	2/15/2024 8:53:34 AM	1	1	T*****
TC	150.7	49.92	2/15/2024 8:58:24 AM	0	2	*****
TC	149.3	49.45	2/15/2024 9:02:21 AM	0	3	*****

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:53.91mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.38	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 53.91 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 0.6364	Spl. No.: 1
Vial: 66		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	171.3	55.29	2/15/2024 9:08:45 AM	1	1
IC	166.6	53.77	2/15/2024 9:11:10 AM	0	2
IC	167.5	54.06	2/15/2024 9:13:34 AM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.48mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.88	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity
		Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.48 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity	Rem.: *****	SD Area: 0.2616
Catalyst\CCV_TC_10 ppm.tpl		
Spl. No.: 1	Vial: 67	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	30.03	10.55	2/15/2024 9:20:09 AM	1
TC	29.66	10.42	2/15/2024 9:23:25 AM	2

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.49mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.57	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Inj. Vol.: 50	Notes: Control value: 10.49 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl
Rem.: *****	SD Area: 0.1909	Spl. No.: 1
Vial: 68		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	34.64	10.77	2/15/2024 9:29:31 AM	1	1
IC	33.64	10.45	2/15/2024 9:31:50 AM	0	2
IC	33.91	10.54	2/15/2024 9:34:09 AM	0	3

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.09149mg/L TC:0.2636mg/L IC:0.1721mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	0.8266	0.2820	2/14/2024 10:29:08 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	9.58	0.07418
TC	0.7217	0.2451	2/14/2024 10:31:20 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	9.58	0.07418
IC	0.6193	0.1942	2/14/2024 10:33:52 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	18.20	0.09984
IC	0.4781	0.1499	2/14/2024 10:35:59 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	18.20	0.09984

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.1074mg/L TC:0.3003mg/L IC:0.1929mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	0.8220	0.2804	2/14/2024 8:39:13 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	9.10	0.07990
TC	0.9350	0.3201	2/14/2024 8:41:26 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	9.10	0.07990
IC	0.6466	0.2028	2/14/2024 8:43:58 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.28	0.04476
IC	0.5833	0.1829	2/14/2024 8:46:05 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.28	0.04476

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.1555mg/L TC:0.3497mg/L IC:0.1942mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	0.9953	0.3413	2/15/2024 12:58:50 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	3.31	0.03373
TC	1.043	0.3581	2/15/2024 1:01:11 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	3.31	0.03373
IC	0.5730	0.1797	2/15/2024 1:03:44 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	10.57	0.06548
IC	0.6656	0.2087	2/15/2024 1:05:52 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	10.57	0.06548

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.06535mg/L TC:0.3426mg/L IC:0.2773mg/L	Auto. Dil.: 1.000

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****	Spl. No.: 1
Vial: 0		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.025	0.3517	2/15/2024 4:26:17 AM	0	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	3.67	0.03663
TC	0.9732	0.3335	2/15/2024 4:28:24 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	3.67	0.03663
IC	0.6806	0.2134	2/15/2024 4:30:56 AM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.91	0.06993
IC	0.9336	0.2928	2/15/2024 4:33:03 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.91	0.06993
IC	0.8347	0.2618	2/15/2024 4:35:10 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.91	0.06993

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.1853mg/L TC:0.3934mg/L IC:0.2081mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.176	0.4048	2/15/2024 9:37:59 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.02	0.04596
TC	1.111	0.3820	2/15/2024 9:40:12 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.02	0.04596
IC	0.6103	0.1914	2/15/2024 9:42:44 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	11.32	0.07509
IC	0.7165	0.2247	2/15/2024 9:44:50 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	11.32	0.07509

Instrument: CHEM-TOC01
 Method: SM 5310B

Begun: 02/22/24 08:08

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	202402220808001	UNKNOWN	RINSE (20)			02/22/24 08:08	1.0		
002	202402220808002	CCV	CCV_TC_50 PPM			02/22/24 09:59	1.0	1	
003	202402220808003	CCV	CCV_IC_50 PPM			02/22/24 10:09	1.0	2	
004	202402220808004	CCV	CCV_TC_10 PPM			02/22/24 10:19	1.0	1	
005	202402220808005	CCV	CCV_IC_10 PPM			02/22/24 10:31	1.0	2	
006	202402220808006	CCB				02/22/24 10:37	1.0		
007	202402220808007	BLANK	QC1129977	Water	333568	02/22/24 10:50	1.0		
008	202402220808008	LCS	QC1129978	Water	333568	02/22/24 11:09	1.0	1 2	
009	202402220808009	MSS	502013-004	Water	333568	02/22/24 11:25	1.0		
010	202402220808010	MS	QC1129979	Water	333568	02/22/24 11:39	1.0	1 2	
011	202402220808011	MSD	QC1129980	Water	333568	02/22/24 11:53	1.0	1 2	
012	202402220808012	CCV	CCV_TC_50 PPM			02/22/24 12:10	1.0	1	
013	202402220808013	UNKNOWN	XCCV			02/22/24 12:21	1.0	2	
014	202402220808014	CCV	CCV_IC_50 PPM			02/22/24 12:43	1.0	2	
015	202402220808015	CCV	CCV_TC_10 PPM			02/22/24 12:54	1.0	1	
016	202402220808016	CCV	CCV_IC_10 PPM			02/22/24 13:09	1.0	2	
017	202402220808017	CCB				02/22/24 13:15	1.0		
018	202402220808018	SAMPLE	502013-011	Water	333568	02/22/24 13:28	1.0		
019	202402220808019	SAMPLE	502013-012	Water	333568	02/22/24 13:42	1.0		
020	202402220808020	SAMPLE	502013-013	Water	333568	02/22/24 13:56	1.0		
021	202402220808021	SAMPLE	502013-014	Water	333568	02/22/24 14:09	1.0		
022	202402220808022	SAMPLE	502013-015	Water	333568	02/22/24 14:24	1.0		1:TOTC=220
023	202402220808023	SAMPLE	502013-016	Water	333568	02/22/24 14:41	1.0		
024	202402220808024	SAMPLE	502063-054	Water	333568	02/22/24 14:55	1.0		
025	202402220808025	SAMPLE	502063-055	Water	333568	02/22/24 15:09	1.0		
026	202402220808026	SAMPLE	502063-056	Water	333568	02/22/24 15:22	1.0		
027	202402220808027	SAMPLE	502063-057	Water	333568	02/22/24 15:36	1.0		
028	202402220808028	CCV	CCV_TC_50 PPM			02/22/24 15:51	1.0	1	
029	202402220808029	CCV	CCV_IC_50 PPM			02/22/24 16:06	1.0	2	
030	202402220808030	CCV	CCV_TC_10 PPM			02/22/24 16:17	1.0	1	
031	202402220808031	UNKNOWN	XCCV			02/22/24 16:26	1.0	2	
032	202402220808032	CCV	CCV_IC_10 PPM			02/22/24 18:02	1.0	2	
033	202402220808033	CCB				02/22/24 18:08	1.0		
034	202402220808034	SAMPLE	502013-015	Water	333568	02/22/24 18:24	2.0		
035	202402220808035	SAMPLE	502238-001	Water	333568	02/22/24 18:46	1.0		
036	202402220808036	SAMPLE	502238-002	Water	333568	02/22/24 19:05	1.0		
037	202402220808037	SAMPLE	502238-003	Water	333568	02/22/24 19:18	1.0		
038	202402220808038	SAMPLE	502238-004	Water	333568	02/22/24 19:32	1.0		
039	202402220808039	SAMPLE	502238-005	Water	333568	02/22/24 19:47	1.0		
040	202402220808040	SAMPLE	502238-006	Water	333568	02/22/24 20:01	1.0		
041	202402220808041	SAMPLE	502238-007	Water	333568	02/22/24 20:15	1.0		
042	202402220808042	SAMPLE	502378-001	Water	333568	02/22/24 20:29	1.0		
043	202402220808043	SAMPLE	502378-002	Water	333568	02/22/24 20:42	1.0		
044	202402220808044	CCV	CCV_TC_50 PPM			02/22/24 20:58	1.0	1	
045	202402220808045	CCV	CCV_IC_50 PPM			02/22/24 21:09	1.0	2	
046	202402220808046	CCV	CCV_TC_10 PPM			02/22/24 21:20	1.0	1	
047	202402220808047	CCV	CCV_IC_10 PPM			02/22/24 21:32	1.0	2	
048	202402220808048	CCB				02/22/24 21:38	1.0		
049	202402220808049	SAMPLE	502013-015	Water	333568	02/22/24 21:56	2.0		
050	202402220808050	CCV	CCV_TC_50 PPM			02/22/24 22:19	1.0	1	
051	202402220808051	CCV	CCV_IC_50 PPM			02/22/24 22:33	1.0	2	
052	202402220808052	CCV	CCV_TC_10 PPM			02/22/24 22:45	1.0	1	
053	202402220808053	CCV	CCV_IC_10 PPM			02/22/24 22:54	1.0	2	
054	202402220808054	CCB				02/22/24 23:00	1.0		
055	202402220808055	UNKNOWN	RINSE (20)			02/22/24 23:14	1.0		

Instrument: CHEM-TOC01

Begun: 02/22/24 08:08

Method: SM 5310B

Standards Used:
1=S19972 2=S19305

	Type	Analysis	Sample Name	Sample ID	Origi	Manu	Result	No	Comment	Status	Date / Time	Vial
1	Unknown	TOC	Rinse (20)		R	1.00	TOC:0.2605mg/L TC:0.4867mg/L IC:0.2262mg/L			Complete	2/22/2024 9:52:13 AM	0
2	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:52.34mg/L			Complete	2/22/2024 10:03:34 AM	61
3	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:54.77mg/L			Complete	2/22/2024 10:12:13 AM	62
4	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.52mg/L			Complete	2/22/2024 10:25:40 AM	63
5	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.50mg/L			Complete	2/22/2024 10:33:58 AM	64
6	Unknown	TOC	CCB		C	1.00	TOC:0.2647mg/L TC:0.4716mg/L IC:0.2069mg/L			Complete	2/22/2024 10:44:42 AM	0
7	Unknown	TOC	BLANK,QC1129977,333568		2	1.00	TOC:0.1072mg/L TC:0.2371mg/L IC:0.1299mg/L	pH=6, LOT#HC325179, 2/21/24 0950 EPL		Complete	2/22/2024 11:01:05 AM	1
8	Unknown	TOC	LCS,QC1129978,333568,S19972,40X,S19305,40X		2	1.00	TOC:25.00mg/L TC:50.01mg/L IC:25.01mg/L	pH=8		Complete	2/22/2024 11:19:51 AM	2
9	Unknown	TOC	MSS,502013-004,333568		2	1.00	TOC:2.170mg/L TC:34.55mg/L IC:32.38mg/L	pH<2		Complete	2/22/2024 11:33:30 AM	3
10	Unknown	TOC	MS,QC1129979,333568,S19972,40X,S19305,40X		2	1.00	TOC:29.30mg/L TC:73.55mg/L IC:44.24mg/L			Complete	2/22/2024 11:47:46 AM	4
11	Unknown	TOC	MSD,QC1129980,333568,S19972,40X,S19305,40X		2	1.00	TOC:28.05mg/L TC:73.43mg/L IC:45.38mg/L			Complete	2/22/2024 12:01:55 PM	5
12	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:53.07mg/L			Complete	2/22/2024 12:14:47 PM	61
13	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:55.14mg/L		Re-run for confirmation	Complete	2/22/2024 12:23:30 PM	62
14	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:50.59mg/L			Complete	2/22/2024 12:47:58 PM	62
15	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.49mg/L			Complete	2/22/2024 1:03:41 PM	63
16	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.62mg/L			Complete	2/22/2024 1:11:54 PM	64
17	Unknown	TOC	CCB		C	1.00	TOC:0.2303mg/L TC:0.4394mg/L IC:0.2092mg/L			Complete	2/22/2024 1:22:47 PM	0
18	Unknown	TOC	502013-011,333568		2	1.00	TOC:2.190mg/L TC:36.43mg/L IC:34.24mg/L	pH<2		Complete	2/22/2024 1:36:40 PM	6
19	Unknown	TOC	502013-012,333568		2	1.00	TOC:1.756mg/L TC:34.41mg/L IC:32.65mg/L	pH<2		Complete	2/22/2024 1:50:19 PM	7
20	Unknown	TOC	502013-013,333568		2	1.00	TOC:2.715mg/L TC:43.23mg/L IC:40.52mg/L	pH<2		Complete	2/22/2024 2:04:02 PM	8
21	Unknown	TOC	502013-014,333568		2	1.00	TOC:2.192mg/L TC:40.87mg/L IC:38.67mg/L	pH<2		Complete	2/22/2024 2:17:44 PM	9
22	Unknown	TOC	502013-015,333568//R1 don't use		2	1.00	TOC:49.21mg/L TC:220.7mg/L IC:171.5mg/L	pH<2 TC>LR		Complete	2/22/2024 2:36:00 PM	10
23	Unknown	TOC	502013-016,333568		2	1.00	TOC:2.471mg/L TC:59.87mg/L IC:57.39mg/L	pH<2		Complete	2/22/2024 2:49:37 PM	11
24	Unknown	TOC	502063-054,333568		2	1.00	TOC:1.188mg/L TC:41.59mg/L IC:40.41mg/L	pH<2		Complete	2/22/2024 3:03:11 PM	12
25	Unknown	TOC	502063-055,333568		2	1.00	TOC:0.8361mg/L TC:38.88mg/L IC:38.04mg/L	pH<2		Complete	2/22/2024 3:16:44 PM	13
26	Unknown	TOC	502063-056,333568		2	1.00	TOC:1.354mg/L TC:38.13mg/L IC:36.78mg/L	pH<2		Complete	2/22/2024 3:30:18 PM	14
27	Unknown	TOC	502063-057,333568		2	1.00	TOC:1.693mg/L TC:39.52mg/L IC:37.83mg/L	pH<2		Complete	2/22/2024 3:43:52 PM	15
28	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:51.77mg/L			Complete	2/22/2024 3:59:51 PM	61
29	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:51.13mg/L			Complete	2/22/2024 4:10:56 PM	62
30	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.47mg/L			Complete	2/22/2024 4:20:36 PM	63
31	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:11.02mg/L		Re-run for confirmation	Complete	2/22/2024 4:29:02 PM	64
32	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.01mg/L			Complete	2/22/2024 6:04:36 PM	64
33	Unknown	TOC	CCB		C	1.00	TOC:0.2355mg/L TC:0.4319mg/L IC:0.1964mg/L			Complete	2/22/2024 6:15:17 PM	0
34	Unknown	TOC	502013-015,333568//R2	Auto TC DF=2, Auto IC DF=2	2	1.00	TOC:32.48mg/L TC:139.1mg/L IC:106.6mg/L			Complete	2/22/2024 6:40:39 PM	10
35	Unknown	TOC	502238-001,333568		2	1.00	TOC:1.261mg/L TC:20.44mg/L IC:19.18mg/L	pH<2		Complete	2/22/2024 6:59:22 PM	16
36	Unknown	TOC	502238-002,333568		2	1.00	TOC:1.411mg/L TC:27.79mg/L IC:26.38mg/L	pH<2		Complete	2/22/2024 7:13:02 PM	17
37	Unknown	TOC	502238-003,333568		2	1.00	TOC:1.428mg/L TC:28.99mg/L IC:27.57mg/L	pH<2		Complete	2/22/2024 7:26:39 PM	18
38	Unknown	TOC	502238-004,333568		2	1.00	TOC:1.720mg/L TC:31.03mg/L IC:29.31mg/L	pH<2		Complete	2/22/2024 7:41:35 PM	19
39	Unknown	TOC	502238-005,333568		2	1.00	TOC:6.168mg/L TC:60.06mg/L IC:53.90mg/L	pH<2		Complete	2/22/2024 7:55:30 PM	20
40	Unknown	TOC	502238-006,333568		2	1.00	TOC:3.253mg/L TC:44.84mg/L IC:41.59mg/L	pH<2		Complete	2/22/2024 8:09:17 PM	21
41	Unknown	TOC	502238-007,333568		2	1.00	TOC:4.542mg/L TC:67.77mg/L IC:63.22mg/L	pH<2		Complete	2/22/2024 8:23:14 PM	22
42	Unknown	TOC	502378-001,333568		2	1.00	TOC:1.419mg/L TC:51.19mg/L IC:49.77mg/L	pH<2		Complete	2/22/2024 8:36:59 PM	23
43	Unknown	TOC	502378-002,333568		2	1.00	TOC:1.422mg/L TC:49.88mg/L IC:48.45mg/L			Complete	2/22/2024 8:50:36 PM	24
44	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:52.62mg/L			Complete	2/22/2024 9:02:50 PM	65
45	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:53.80mg/L			Complete	2/22/2024 9:13:52 PM	66
46	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.47mg/L			Complete	2/22/2024 9:26:43 PM	67
47	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:9.953mg/L			Complete	2/22/2024 9:35:06 PM	68
48	Unknown	TOC	CCB		C	1.00	TOC:0.2298mg/L TC:0.4719mg/L IC:0.2421mg/L			Complete	2/22/2024 9:47:58 PM	0
49	Unknown	TOC	502013-015,333568//R3	Auto TC DF=2, Auto IC DF=2	2	1.00	TOC:30.89mg/L TC:130.1mg/L IC:99.24mg/L	R2 TC value was drastically different from R1, R3 for confirmation		Complete	2/22/2024 10:10:46 PM	10
50	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:50.78mg/L			Complete	2/22/2024 10:27:20 PM	65
51	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:53.99mg/L			Complete	2/22/2024 10:38:25 PM	66
52	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.72mg/L			Complete	2/22/2024 10:48:34 PM	67
53	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:9.994mg/L			Complete	2/22/2024 10:56:51 PM	68
54	Unknown	TOC	CCB		C	1.00	TOC:0.2318mg/L TC:0.4299mg/L IC:0.1982mg/L			Complete	2/22/2024 11:09:49 PM	0
55	Unknown	TOC	Rinse (20)		R	1.00	TOC:0.2386mg/L TC:0.4607mg/L IC:0.2221mg/L			Complete	2/23/2024 12:58:15 AM	0

	Type	Analysis	Sample Name	Sample ID	Origin	Manu	Result	Notes	Comment	Status
1	Unknown	TC	TC Rinse (20)	Untitled	TC	1.0	TC:0.2497mg/L			Complete
2	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:52.02mg/L			Complete
3	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:55.32mg/L		Rerun	Complete
4	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:51.90mg/L			Complete
5	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.26mg/L			Complete
6	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.38mg/L			Complete
7	Unknown	TOC	CCB		CCB	1.0	TOC:0.09149mg/L TC:0.2636mg/L IC:0.1721mg/L			Complete
8	Unknown	TOC	BLANK.QC1127900.332935		231	1.0	TOC:0.1376mg/L TC:0.2989mg/L IC:0.1613mg/L		pH=6, LOT#HC325179 2/13/24 1444 EPL	Complete
9	Unknown	TOC	LCS.QC1127901.332935.S19972.40X.S19305.40X		231	1.0	TOC:24.70mg/L TC:51.47mg/L IC:26.77mg/L		pH=8	Complete
10	Unknown	TOC	MSS.502011-001.332935		231	1.0	TOC:3.405mg/L TC:34.02mg/L IC:30.62mg/L		pH<2	Complete
11	Unknown	TOC	MS.QC1127902.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.75mg/L TC:68.68mg/L IC:38.93mg/L			Complete
12	Unknown	TOC	MSD.QC1127903.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.11mg/L TC:69.39mg/L IC:40.28mg/L			Complete
13	Unknown	TOC	MSS.502011-013.332935		231	1.0	TOC:1.866mg/L TC:28.58mg/L IC:26.71mg/L		pH<2	Complete
14	Unknown	TOC	MS.QC1127904.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.81mg/L TC:67.93mg/L IC:38.12mg/L			Complete
15	Unknown	TOC	MSD.QC1127905.332935.S19972.40X.S19305.40X		231	1.0	TOC:29.04mg/L TC:67.73mg/L IC:38.69mg/L			Complete
16	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:49.12mg/L			Complete
17	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.11mg/L			Complete
18	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.21mg/L			Complete
19	Control	IC	CCV.S19305.100X/R1	CCV_IC_10 ppm	CCV	1.0	IC:11.14mg/L			Complete
20	Control	IC	CCV.S19305.100X/R2	CCV_IC_10 ppm	CCV	1.0	IC:11.24mg/L		Only sample affected in above bracket is BLANK. To be analyzed in last bracket	Complete
21	Control	IC	CCV.S19305.100X/R3	CCV_IC_10 ppm	CCV	1.0	IC:10.21mg/L		Remade CCV analyzed to continue next bracket	Complete
22	Unknown	TOC	CCB		CCB	1.0	TOC:0.1074mg/L TC:0.3003mg/L IC:0.1929mg/L			Complete
23	Unknown	TOC	502011-007.332935		231	1.0	TOC:2.937mg/L TC:41.59mg/L IC:38.66mg/L		pH<2	Complete
24	Unknown	TOC	502011-008.332935		231	1.0	TOC:2.607mg/L TC:42.74mg/L IC:40.13mg/L		pH<2	Complete
25	Unknown	TOC	502011-009.332935		231	1.0	TOC:2.435mg/L TC:41.59mg/L IC:39.16mg/L		pH<2	Complete
26	Unknown	TOC	502011-010.332935		231	1.0	TOC:1.282mg/L TC:30.87mg/L IC:29.59mg/L		pH<2	Complete
27	Unknown	TOC	502011-011.332935		231	1.0	TOC:1.671mg/L TC:37.83mg/L IC:36.16mg/L		pH<2	Complete
28	Unknown	TOC	502011-012.332935		231	1.0	TOC:2.455mg/L TC:37.40mg/L IC:34.95mg/L		pH<2	Complete
29	Unknown	TOC	502011-014.332935		231	1.0	TOC:1.764mg/L TC:39.11mg/L IC:37.35mg/L		pH<2	Complete
30	Unknown	TOC	502011-015.332935		231	1.0	TOC:2.003mg/L TC:31.69mg/L IC:29.68mg/L		pH<2	Complete
31	Unknown	TOC	502011-016.332935		231	1.0	TOC:2.318mg/L TC:34.45mg/L IC:32.14mg/L		pH<2	Complete
32	Unknown	TOC	502013-001.332935		231	1.0	TOC:1.425mg/L TC:35.50mg/L IC:34.07mg/L		pH<2	Complete
33	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:51.23mg/L			Complete
34	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.40mg/L			Complete
35	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.26mg/L			Complete
36	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.48mg/L			Complete
37	Unknown	TOC	CCB		CCB	1.0	TOC:0.1555mg/L TC:0.3497mg/L IC:0.1942mg/L			Complete
38	Unknown	TOC	BLANK.QC1127900.332935		231	1.0	TOC:0.1055mg/L TC:0.3773mg/L IC:0.2719mg/L		pH=6, LOT#HC325179 2/13/24 1444 EPL	Complete
39	Unknown	TOC	502013-002.332935		231	1.0	TOC:1.712mg/L TC:33.99mg/L IC:32.28mg/L		pH<2	Complete
40	Unknown	TOC	502013-003.332935		231	1.0	TOC:1.700mg/L TC:33.97mg/L IC:32.27mg/L		pH<2	Complete
41	Unknown	TOC	502013-005.332935/R1 don't use		231	1.0	TOC:25.41mg/L TC:236.4mg/L IC:211.0mg/L		pH<2 TC and IC >LR	Complete
42	Unknown	TOC	502013-006.332935		231	1.0	TOC:1.093mg/L TC:14.30mg/L IC:13.20mg/L		pH<2	Complete
43	Unknown	TOC	502013-007.332935		231	1.0	TOC:1.716mg/L TC:34.77mg/L IC:33.05mg/L		pH<2	Complete
44	Unknown	TOC	502013-008.332935		231	1.0	TOC:2.173mg/L TC:15.18mg/L IC:13.01mg/L		pH<2	Complete
45	Unknown	TOC	502013-009.332935		231	1.0	TOC:9.364mg/L TC:79.91mg/L IC:70.54mg/L		pH<2	Complete
46	Unknown	TOC	502013-010.332935		231	1.0	TOC:2.334mg/L TC:32.11mg/L IC:29.77mg/L		pH<2	Complete
47	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:50.93mg/L			Complete
48	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:54.20mg/L			Complete
49	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:9.988mg/L			Complete
50	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.61mg/L			Complete
51	Unknown	TOC	CCB		CCB	1.0	TOC:0.06535mg/L TC:0.3426mg/L IC:0.2773mg/L			Complete
52	Unknown	TOC	502013-005.332935/R2	TC Auto DF=2, IC Auto DF=	231	1.0	TOC:30.31mg/L TC:147.5mg/L IC:117.2mg/L		pH<2	Complete
53	Control	TC	CCV.S19972.20X	CCV_TC_50 ppm	CCV	1.0	TC:49.69mg/L			Complete
54	Control	IC	CCV.S19305.20X	CCV_IC_50 ppm	CCV	1.0	IC:53.91mg/L			Complete
55	Control	TC	CCV.S19972.100X	CCV_TC_10 ppm	CCV	1.0	TC:10.48mg/L			Complete
56	Control	IC	CCV.S19305.100X	CCV_IC_10 ppm	CCV	1.0	IC:10.49mg/L			Complete
57	Unknown	TOC	CCB		CCB	1.0	TOC:0.1853mg/L TC:0.3934mg/L IC:0.2081mg/L			Complete

	Date / Time	Vial
1	2/14/2024 8:59:15 AM	0
2	2/14/2024 9:11:16 AM	61
3	2/14/2024 9:19:57 AM	62
4	2/14/2024 10:00:46 AM	62
5	2/14/2024 10:16:57 AM	63
6	2/14/2024 10:25:14 AM	64
7	2/14/2024 10:35:59 AM	0
8	2/14/2024 10:52:26 AM	1
9	2/14/2024 11:08:42 AM	2
10	2/14/2024 11:22:18 AM	3
11	2/14/2024 11:36:16 AM	4
12	2/14/2024 11:50:34 AM	5
13	2/14/2024 12:04:12 PM	6
14	2/14/2024 12:18:25 PM	7
15	2/14/2024 12:32:41 PM	8
16	2/14/2024 12:56:55 PM	65
17	2/14/2024 1:05:35 PM	66
18	2/14/2024 1:21:56 PM	67
19	2/14/2024 1:30:20 PM	68
20	2/14/2024 6:32:42 PM	68
21	2/14/2024 8:35:17 PM	68
22	2/14/2024 8:46:05 PM	0
23	2/14/2024 10:01:18 PM	9
24	2/14/2024 10:15:21 PM	10
25	2/14/2024 10:29:08 PM	11
26	2/14/2024 10:42:50 PM	12
27	2/14/2024 10:56:36 PM	13
28	2/14/2024 11:13:23 PM	14
29	2/14/2024 11:27:14 PM	15
30	2/14/2024 11:41:04 PM	16
31	2/14/2024 11:57:57 PM	17
32	2/15/2024 12:11:52 AM	18
33	2/15/2024 12:24:52 AM	65
34	2/15/2024 12:33:39 AM	66
35	2/15/2024 12:46:30 AM	67
36	2/15/2024 12:54:59 AM	68
37	2/15/2024 1:05:52 AM	0
38	2/15/2024 1:22:21 AM	1
39	2/15/2024 1:36:26 AM	19
40	2/15/2024 1:50:21 AM	20
41	2/15/2024 2:10:00 AM	21
42	2/15/2024 2:30:31 AM	22
43	2/15/2024 2:44:27 AM	23
44	2/15/2024 3:02:55 AM	24
45	2/15/2024 3:17:10 AM	25
46	2/15/2024 3:30:53 AM	26
47	2/15/2024 3:47:09 AM	65
48	2/15/2024 3:58:20 AM	66
49	2/15/2024 4:14:01 AM	67
50	2/15/2024 4:22:25 AM	68
51	2/15/2024 4:35:10 AM	0
52	2/15/2024 8:45:09 AM	21
53	2/15/2024 9:02:21 AM	65
54	2/15/2024 9:13:34 AM	66
55	2/15/2024 9:23:25 AM	67
56	2/15/2024 9:34:09 AM	68
57	2/15/2024 9:44:50 AM	0

	Type	Analysis	Sample Name	Sample ID	Origi	Manu	Result	No	Comment	Status	Date / Time	Vial
1	Unknown	TOC	Rinse (20)		R	1.00	TOC:0.2605mg/L TC:0.4867mg/L IC:0.2262mg/L			Complete	2/22/2024 9:52:13 AM	0
2	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:52.34mg/L			Complete	2/22/2024 10:03:34 AM	61
3	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:54.77mg/L			Complete	2/22/2024 10:12:13 AM	62
4	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.52mg/L			Complete	2/22/2024 10:25:40 AM	63
5	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.50mg/L			Complete	2/22/2024 10:33:58 AM	64
6	Unknown	TOC	CCB		C	1.00	TOC:0.2647mg/L TC:0.4716mg/L IC:0.2069mg/L			Complete	2/22/2024 10:44:42 AM	0
7	Unknown	TOC	BLANK,QC1129977,333568		2	1.00	TOC:0.1072mg/L TC:0.2371mg/L IC:0.1299mg/L	pH=6, LOT#HC325179, 2/21/24 0950 EPL		Complete	2/22/2024 11:01:05 AM	1
8	Unknown	TOC	LCS,QC1129978,333568,S19972,40X,S19305,40X		2	1.00	TOC:25.00mg/L TC:50.01mg/L IC:25.01mg/L	pH=8		Complete	2/22/2024 11:19:51 AM	2
9	Unknown	TOC	MSS,502013-004,333568		2	1.00	TOC:2.170mg/L TC:34.55mg/L IC:32.38mg/L	pH<2		Complete	2/22/2024 11:33:30 AM	3
10	Unknown	TOC	MS,QC1129979,333568,S19972,40X,S19305,40X		2	1.00	TOC:29.30mg/L TC:73.55mg/L IC:44.24mg/L			Complete	2/22/2024 11:47:46 AM	4
11	Unknown	TOC	MSD,QC1129980,333568,S19972,40X,S19305,40X		2	1.00	TOC:28.05mg/L TC:73.43mg/L IC:45.38mg/L			Complete	2/22/2024 12:01:55 PM	5
12	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:53.07mg/L			Complete	2/22/2024 12:14:47 PM	61
13	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:55.14mg/L		Re-run for confirmation	Complete	2/22/2024 12:23:30 PM	62
14	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:50.59mg/L			Complete	2/22/2024 12:47:58 PM	62
15	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.49mg/L			Complete	2/22/2024 1:03:41 PM	63
16	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.62mg/L			Complete	2/22/2024 1:11:54 PM	64
17	Unknown	TOC	CCB		C	1.00	TOC:0.2303mg/L TC:0.4394mg/L IC:0.2092mg/L			Complete	2/22/2024 1:22:47 PM	0
18	Unknown	TOC	502013-011,333568		2	1.00	TOC:2.190mg/L TC:36.43mg/L IC:34.24mg/L	pH<2		Complete	2/22/2024 1:36:40 PM	6
19	Unknown	TOC	502013-012,333568		2	1.00	TOC:1.756mg/L TC:34.41mg/L IC:32.65mg/L	pH<2		Complete	2/22/2024 1:50:19 PM	7
20	Unknown	TOC	502013-013,333568		2	1.00	TOC:2.715mg/L TC:43.23mg/L IC:40.52mg/L	pH<2		Complete	2/22/2024 2:04:02 PM	8
21	Unknown	TOC	502013-014,333568		2	1.00	TOC:2.192mg/L TC:40.87mg/L IC:38.67mg/L	pH<2		Complete	2/22/2024 2:17:44 PM	9
22	Unknown	TOC	502013-015,333568//R1 don't use		2	1.00	TOC:49.21mg/L TC:220.7mg/L IC:171.5mg/L	pH<2 TC>LR		Complete	2/22/2024 2:36:00 PM	10
23	Unknown	TOC	502013-016,333568		2	1.00	TOC:2.471mg/L TC:59.87mg/L IC:57.39mg/L	pH<2		Complete	2/22/2024 2:49:37 PM	11
24	Unknown	TOC	502063-054,333568		2	1.00	TOC:1.188mg/L TC:41.59mg/L IC:40.41mg/L	pH<2		Complete	2/22/2024 3:03:11 PM	12
25	Unknown	TOC	502063-055,333568		2	1.00	TOC:0.8361mg/L TC:38.88mg/L IC:38.04mg/L	pH<2		Complete	2/22/2024 3:16:44 PM	13
26	Unknown	TOC	502063-056,333568		2	1.00	TOC:1.354mg/L TC:38.13mg/L IC:36.78mg/L	pH<2		Complete	2/22/2024 3:30:18 PM	14
27	Unknown	TOC	502063-057,333568		2	1.00	TOC:1.693mg/L TC:39.52mg/L IC:37.83mg/L	pH<2		Complete	2/22/2024 3:43:52 PM	15
28	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:51.77mg/L			Complete	2/22/2024 3:59:51 PM	61
29	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:51.13mg/L			Complete	2/22/2024 4:10:56 PM	62
30	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.47mg/L			Complete	2/22/2024 4:20:36 PM	63
31	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:11.02mg/L		Re-run for confirmation	Complete	2/22/2024 4:29:02 PM	64
32	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:10.01mg/L			Complete	2/22/2024 6:04:36 PM	64
33	Unknown	TOC	CCB		C	1.00	TOC:0.2355mg/L TC:0.4319mg/L IC:0.1964mg/L			Complete	2/22/2024 6:15:17 PM	0
34	Unknown	TOC	502013-015,333568//R2	Auto TC DF=2, Auto IC DF=2	2	1.00	TOC:32.48mg/L TC:139.1mg/L IC:106.6mg/L			Complete	2/22/2024 6:40:39 PM	10
35	Unknown	TOC	502238-001,333568		2	1.00	TOC:1.261mg/L TC:20.44mg/L IC:19.18mg/L	pH<2		Complete	2/22/2024 6:59:22 PM	16
36	Unknown	TOC	502238-002,333568		2	1.00	TOC:1.411mg/L TC:27.79mg/L IC:26.38mg/L	pH<2		Complete	2/22/2024 7:13:02 PM	17
37	Unknown	TOC	502238-003,333568		2	1.00	TOC:1.428mg/L TC:28.99mg/L IC:27.57mg/L	pH<2		Complete	2/22/2024 7:26:39 PM	18
38	Unknown	TOC	502238-004,333568		2	1.00	TOC:1.720mg/L TC:31.03mg/L IC:29.31mg/L	pH<2		Complete	2/22/2024 7:41:35 PM	19
39	Unknown	TOC	502238-005,333568		2	1.00	TOC:6.168mg/L TC:60.06mg/L IC:53.90mg/L	pH<2		Complete	2/22/2024 7:55:30 PM	20
40	Unknown	TOC	502238-006,333568		2	1.00	TOC:3.253mg/L TC:44.84mg/L IC:41.59mg/L	pH<2		Complete	2/22/2024 8:09:17 PM	21
41	Unknown	TOC	502238-007,333568		2	1.00	TOC:4.542mg/L TC:67.77mg/L IC:63.22mg/L	pH<2		Complete	2/22/2024 8:23:14 PM	22
42	Unknown	TOC	502378-001,333568		2	1.00	TOC:1.419mg/L TC:51.19mg/L IC:49.77mg/L	pH<2		Complete	2/22/2024 8:36:59 PM	23
43	Unknown	TOC	502378-002,333568		2	1.00	TOC:1.422mg/L TC:49.88mg/L IC:48.45mg/L			Complete	2/22/2024 8:50:36 PM	24
44	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:52.62mg/L			Complete	2/22/2024 9:02:50 PM	65
45	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:53.80mg/L			Complete	2/22/2024 9:13:52 PM	66
46	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.47mg/L			Complete	2/22/2024 9:26:43 PM	67
47	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:9.953mg/L			Complete	2/22/2024 9:35:06 PM	68
48	Unknown	TOC	CCB		C	1.00	TOC:0.2298mg/L TC:0.4719mg/L IC:0.2421mg/L			Complete	2/22/2024 9:47:58 PM	0
49	Unknown	TOC	502013-015,333568//R3	Auto TC DF=2, Auto IC DF=2	2	1.00	TOC:30.89mg/L TC:130.1mg/L IC:99.24mg/L	R2 TC value was drastically different from R1, R3 for confirmation		Complete	2/22/2024 10:10:46 PM	10
50	Control	TC	CCV,S19972,20X	CCV_TC_50 ppm	C	1.00	TC:50.78mg/L			Complete	2/22/2024 10:27:20 PM	65
51	Control	IC	CCV,S19305,20X	CCV_IC_50 ppm	C	1.00	IC:53.99mg/L			Complete	2/22/2024 10:38:25 PM	66
52	Control	TC	CCV,S19972,100X	CCV_TC_10 ppm	C	1.00	TC:10.72mg/L			Complete	2/22/2024 10:48:34 PM	67
53	Control	IC	CCV,S19305,100X	CCV_IC_10 ppm	C	1.00	IC:9.994mg/L			Complete	2/22/2024 10:56:51 PM	68
54	Unknown	TOC	CCB		C	1.00	TOC:0.2318mg/L TC:0.4299mg/L IC:0.1982mg/L			Complete	2/22/2024 11:09:49 PM	0
55	Unknown	TOC	Rinse (20)		R	1.00	TOC:0.2386mg/L TC:0.4607mg/L IC:0.2221mg/L			Complete	2/23/2024 12:58:15 AM	0

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-001	Client ID: N062940-001A/TW-02D-Q124
Seqnum: 264065295032.1	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815032	Batch: 332935	Time: 15-FEB-2024 00:03
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.4	1.0		U

U=Use

Reviewed By: EPL 02/19/24, MCP 02/19/24, HCH 02/20/24

TOCControlL Export

Sample Name: 502013-001,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.425mg/L TC:35.50mg/L IC:34.07mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 18	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	107.2	35.52	2/15/2024 12:03:54 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.07	0.07071
TC	107.1	35.48	2/15/2024 12:06:50 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.07	0.07071
IC	104.4	33.81	2/15/2024 12:09:32 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.08	1.131
IC	106.0	34.33	2/15/2024 12:11:52 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.08	1.131

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-002	Client ID: N062940-002A/MW-920-Q124
Seqnum: 264065295039	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815039	Batch: 332935	Time: 15-FEB-2024 01:28
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.7	1.0		U

U=Use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-002,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.712mg/L TC:33.99mg/L IC:32.28mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 19	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	101.7	33.69	2/15/2024 1:28:23 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.24	1.273
TC	103.5	34.29	2/15/2024 1:31:20 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.24	1.273
IC	99.63	32.27	2/15/2024 1:34:05 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.04243
IC	99.69	32.29	2/15/2024 1:36:26 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.04243

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-003	Client ID: N062940-003A/TW-02S-Q124
Seqnum: 264065295040	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815040	Batch: 332935	Time: 15-FEB-2024 01:42
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.7	1.0		u

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-003,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.700mg/L TC:33.97mg/L IC:32.27mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 20	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	102.0	33.79	2/15/2024 1:42:18 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.76	0.7778
TC	103.1	34.16	2/15/2024 1:45:17 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.76	0.7778
IC	100.1	32.42	2/15/2024 1:47:59 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.65	0.6435
IC	99.19	32.13	2/15/2024 1:50:21 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.65	0.6435

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-004	Client ID: N062940-004A/TW-03D-Q124
Seqnum: 264076808009	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808009	Batch: 333568	Time: 22-FEB-2024 11:25
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.2	1.0		u

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: MSS,502013-004,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.170mg/L TC:34.55mg/L IC:32.38mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 3	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	104.3	34.55	2/22/2024 11:25:42 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.00	0.000
TC	104.3	34.55	2/22/2024 11:28:32 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.00	0.000
IC	98.97	32.06	2/22/2024 11:31:13 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.44	1.435
IC	101.0	32.71	2/22/2024 11:33:30 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.44	1.435

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-005	Client ID: N062940-005A/MW-82-046-Q124
Seqnum: 264065295052	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815052	Batch: 332935	Time: 15-FEB-2024 08:30
IDF: 2.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	30	2.0		u

02/19/24 : R2,TC Auto DF=2, IC Auto DF= 2

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-005,332935//R2	Type: Unknown
Sample ID: TC Auto DF=2, IC Auto DF= 2	Manual Dilution: 1.00
Result: TOC:30.31mg/L TC:147.5mg/L IC:117.2mg/L	Auto. Dil.: 2.000

Comments: pH<2

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 21		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	237.2	157.2	2/15/2024 8:30:47 AM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.05	2.333
TC	221.0	146.4	2/15/2024 8:33:51 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.05	2.333
TC	224.3	148.6	2/15/2024 8:36:44 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.05	2.333
IC	195.4	126.6	2/15/2024 8:40:23 AM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.45	2.616
IC	182.8	118.4	2/15/2024 8:42:47 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.45	2.616
IC	179.1	116.0	2/15/2024 8:45:09 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.45	2.616

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-006	Client ID: N062940-006A/MW-82-112-Q124
Seqnum: 264065295042	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815042	Batch: 332935	Time: 15-FEB-2024 02:15
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.1	1.0		u

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-006,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.093mg/L TC:14.30mg/L IC:13.20mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 22		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	41.50	13.75	2/15/2024 2:15:44 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.50	0.2051
TC	40.82	14.35	2/15/2024 2:18:29 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.50	0.2051
TC	40.53	14.25	2/15/2024 2:21:27 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.50	0.2051
IC	46.62	15.10	2/15/2024 2:24:02 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.64	0.2687
IC	43.43	13.62	2/15/2024 2:26:15 AM	1	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.64	0.2687
IC	41.91	13.14	2/15/2024 2:28:23 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.64	0.2687
IC	42.29	13.26	2/15/2024 2:30:31 AM	0	4	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.64	0.2687

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-007	Client ID: N062940-007A/MW-82-168-Q124
Seqnum: 264065295043	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815043	Batch: 332935	Time: 15-FEB-2024 02:36
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.7	1.0		U

U=Use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-007,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.716mg/L TC:34.77mg/L IC:33.05mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 23	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	104.5	34.62	2/15/2024 2:36:25 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.61	0.6364
TC	105.4	34.92	2/15/2024 2:39:22 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.61	0.6364
IC	102.1	33.07	2/15/2024 2:42:07 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.07	0.07071
IC	102.0	33.04	2/15/2024 2:44:27 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.07	0.07071

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-008	Client ID: N062940-008A/MW-82-198-Q124
Seqnum: 264065295044	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815044	Batch: 332935	Time: 15-FEB-2024 02:50
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.2	1.0		u

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-008,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.173mg/L TC:15.18mg/L IC:13.01mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 24		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	42.48	14.07	2/15/2024 2:50:17 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.44	0.1909
TC	43.05	15.13	2/15/2024 2:53:09 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.44	0.1909
TC	43.32	15.23	2/15/2024 2:55:56 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.44	0.1909
IC	41.52	13.45	2/15/2024 2:58:32 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.16	0.4808
IC	41.13	12.90	2/15/2024 3:00:46 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	1.16	0.4808
IC	41.81	13.11	2/15/2024 3:02:55 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	1.16	0.4808

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-009	Client ID: N062940-009A/MW-39-040-Q124
Seqnum: 264065295045	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815045	Batch: 332935	Time: 15-FEB-2024 03:08
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	9.4	1.0		u

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-009,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:9.364mg/L TC:79.91mg/L IC:70.54mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 25	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	240.1	79.54	2/15/2024 3:08:53 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.64	1.556
TC	242.3	80.27	2/15/2024 3:11:53 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.64	1.556
IC	216.9	70.25	2/15/2024 3:14:44 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.58	1.273
IC	218.7	70.84	2/15/2024 3:17:10 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.58	1.273

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-010	Client ID: N062940-010A/MW-39-050-Q124
Seqnum: 264065295046	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402140815046	Batch: 332935	Time: 15-FEB-2024 03:22
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.3	1.0		u

u=use

Analyst: EPL 02/19/24

Reviewer: MCP 02/19/24

TOCControlL Export

Sample Name: 502013-010,332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.334mg/L TC:32.11mg/L IC:29.77mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 26	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	96.35	31.92	2/15/2024 3:22:59 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.82	0.7990
TC	97.48	32.29	2/15/2024 3:25:51 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.82	0.7990
IC	91.17	29.53	2/15/2024 3:28:33 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.16	1.068
IC	92.68	30.02	2/15/2024 3:30:53 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.16	1.068

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-011	Client ID: N062940-011A/MW-39-060-Q124
Seqnum: 264076808018	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808018	Batch: 333568	Time: 22-FEB-2024 13:28
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.2	1.0		u

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-011,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.190mg/L TC:36.43mg/L IC:34.24mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 6	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	109.1	36.14	2/22/2024 1:28:55 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.09	1.202
TC	110.8	36.71	2/22/2024 1:31:40 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.09	1.202
IC	104.3	33.78	2/22/2024 1:34:20 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.87	1.980
IC	107.1	34.69	2/22/2024 1:36:40 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.87	1.980

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-012	Client ID: N062940-012A/MW-39-070-Q124
Seqnum: 264076808019	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808019	Batch: 333568	Time: 22-FEB-2024 13:42
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	1.8	1.0		U

U=Use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-012,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:1.756mg/L TC:34.41mg/L IC:32.65mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 7	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	103.4	34.26	2/22/2024 1:42:31 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.61	0.6364
TC	104.3	34.55	2/22/2024 1:45:21 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.61	0.6364
IC	100.5	32.55	2/22/2024 1:48:01 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.42	0.4243
IC	101.1	32.75	2/22/2024 1:50:19 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.42	0.4243

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-013	Client ID: N062940-013A/MW-39-080-Q124
Seqnum: 264076808020	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808020	Batch: 333568	Time: 22-FEB-2024 13:56
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.7	1.0		u

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-013,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.715mg/L TC:43.23mg/L IC:40.52mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 8	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	129.6	42.94	2/22/2024 1:56:13 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.98	1.273
TC	131.4	43.53	2/22/2024 1:59:05 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.98	1.273
IC	124.5	40.33	2/22/2024 2:01:46 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.68	0.8485
IC	125.7	40.71	2/22/2024 2:04:02 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.68	0.8485

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-014	Client ID: N062940-014A/MW-39-100-Q124
Seqnum: 264076808021	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808021	Batch: 333568	Time: 22-FEB-2024 14:09
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.2	1.0		u

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-014,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.192mg/L TC:40.87mg/L IC:38.67mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 9	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	123.7	40.98	2/22/2024 2:09:57 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.40	0.4950
TC	123.0	40.75	2/22/2024 2:12:49 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.40	0.4950
IC	119.0	38.54	2/22/2024 2:15:27 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.47	0.5657
IC	119.8	38.80	2/22/2024 2:17:44 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.47	0.5657

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-015	Client ID: N062940-015A/MW-30-030R-Q124
Seqnum: 264076808034	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808034	Batch: 333568	Time: 22-FEB-2024 18:24
IDF: 2.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	32	2.0		u

02/23/24 : R2,Auto TC DF=2, Auto IC DF=2

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-015,333568//R2	Type: Unknown
Sample ID: Auto TC DF=2, Auto IC DF=2	Manual Dilution: 1.00
Result: TOC:32.48mg/L TC:139.1mg/L IC:106.6mg/L	Auto. Dil.: 2.000

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 10		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	220.8	146.3	2/22/2024 6:24:13 PM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.28	2.687
TC	208.0	137.8	2/22/2024 6:27:08 PM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.28	2.687
TC	211.8	140.3	2/22/2024 6:30:03 PM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.28	2.687
IC	176.7	114.5	2/22/2024 6:33:38 PM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.07071
IC	169.8	110.0	2/22/2024 6:35:58 PM	1	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.07071
IC	164.6	106.6	2/22/2024 6:38:18 PM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.07071
IC	164.5	106.6	2/22/2024 6:40:39 PM	0	4	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.04	0.07071

ENTHALPY SAMPLE USER REPORT FOR SM 5310B

Inst: CHEM-TOC01	Lab ID: 502013-016	Client ID: N062940-016A/MW-30-050-Q124
Seqnum: 264076808023	Matrix: Water	Acct: ASSET LABS (QGL)
File: 202402220808023	Batch: 333568	Time: 22-FEB-2024 14:41
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Blank	Flags
Total Organic Carbon	P	2.5	1.0		u

u=use

Analyst: EPL 02/23/24

Reviewer: MCP 02/23/24

TOCControlL Export

Sample Name: 502013-016,333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:2.471mg/L TC:59.87mg/L IC:57.39mg/L	Auto. Dil.: 1.000

Comments: pH<2

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 11	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	180.4	59.77	2/22/2024 2:41:47 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.23	0.4243
TC	181.0	59.96	2/22/2024 2:44:34 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.23	0.4243
IC	178.7	57.88	2/22/2024 2:47:18 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.20	2.121
IC	175.7	56.91	2/22/2024 2:49:37 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	1.20	2.121

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 502013 TOC Water
SM 5310B

Inst: CHEM-TOC01	Lab ID: QC1127900	
Seqnum: 264065295008.3	Matrix: Water	
File: 202402140815008	Batch: 332935	Time: 14-FEB-2024 10:41
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Flags
Total Organic Carbon	P	ND	1.0	u

HCH 02/20/24 : use this one, first one. [general version]

u=use

TOCControlL Export

Sample Name: BLANK, QC1127900, 332935	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.1376mg/L TC:0.2989mg/L IC:0.1613mg/L	Auto. Dil.: 1.000

Comments: pH=6, LOT#HC325179 2/13/24 1444 EPL

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 1		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	0.8166	0.2705	2/14/2024 10:41:22 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.50	0.00424
TC	0.8473	0.2978	2/14/2024 10:43:32 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.50	0.00424
TC	0.8533	0.2999	2/14/2024 10:45:42 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.50	0.00424
IC	0.5877	0.1904	2/14/2024 10:48:12 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	5.22	0.02687
IC	0.5333	0.1673	2/14/2024 10:50:19 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	5.22	0.02687
IC	0.4953	0.1553	2/14/2024 10:52:26 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	5.22	0.02687

ENTHALPY BLANK USER REPORT FOR 502013 TOC Water
SM 5310B

Inst: CHEM-TOC01	Lab ID: QC1129977	
Seqnum: 264076808007.1	Matrix: Water	
File: 202402220808007	Batch: 333568	Time: 22-FEB-2024 10:50
IDF: 1.0		Units: mg/L

Analyte	Ch	Result	RL	Flags
Total Organic Carbon	P	ND	1.0	u

u=use

TOCControlL Export

Sample Name: BLANK, QC1129977, 333568	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.1072mg/L TC:0.2371mg/L IC:0.1299mg/L	Auto. Dil.: 1.000

Comments: pH=6, LOT#HC325179, 2/21/24 0950 EPL

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****	Spl. No.: 1
Vial: 1		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	0.5750	0.1905	2/22/2024 10:50:04 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	5.36	0.03613
TC	0.6490	0.2281	2/22/2024 10:52:14 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	5.36	0.03613
TC	0.7001	0.2461	2/22/2024 10:54:21 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	5.36	0.03613
IC	0.3322	0.1076	2/22/2024 10:56:51 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	2.59	0.01075
IC	0.4067	0.1275	2/22/2024 10:58:58 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	2.59	0.01075
IC	0.4219	0.1323	2/22/2024 11:01:05 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	2.59	0.01075

ENTHALPY SPIKE USER REPORT FOR 502013 TOC Water
SM 5310B

Type: LCS
Inst: CHEM-TOC01
Seqnum: 264065295009.1
File: 202402140815009
IDF: 1.0
Lab ID: QC1127901
Matrix: Water
Batch: 332935
Time: 14-FEB-2024 10:59
Units: mg/L

• LCS:

Analyte	Spiked	LCS	Ch	%Rec	Limits	Flags
Total Organic Carbon	25.00	24.70	P	99	80-120	u

u=use

TOCControlL Export

Sample Name: LCS, QC1127901, 332935, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:24.70mg/L TC:51.47mg/L IC:26.77mg/L	Auto. Dil.: 1.000

Comments: pH=8

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 2	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	157.3	52.11	2/14/2024 10:59:58 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.78	2.758
TC	153.4	50.82	2/14/2024 11:03:45 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.78	2.758
IC	82.54	26.73	2/14/2024 11:06:26 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.16	0.1344
IC	82.73	26.80	2/14/2024 11:08:42 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.16	0.1344

ENTHALPY SPIKE USER REPORT FOR 502013 TOC Water
SM 5310B

Type: LCS
Inst: CHEM-TOC01
Seqnum: 264076808008.3
File: 202402220808008
IDF: 1.0
Lab ID: QC1129978
Matrix: Water
Batch: 333568
Time: 22-FEB-2024 11:09
Units: mg/L

• LCS:

Analyte	Spiked	LCS	Ch	%Rec	Limits	Flags
Total Organic Carbon	25.00	25.00	P	100	80-120	u

u=use

TOCControlL Export

Sample Name: LCS, QC1129978, 333568, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:25.00mg/L TC:50.01mg/L IC:25.01mg/L	Auto. Dil.: 1.000

Comments: pH=8

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Spl. No.: 1	Vial: 2

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	Rem.	SD Area
TC	152.6	50.56	2/22/2024 11:09:01 AM	0	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.55	*****	2.333
TC	149.3	49.46	2/22/2024 11:12:49 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.55	*****	2.333
IC	79.43	25.73	2/22/2024 11:15:27 AM	2	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.55	*****	0.4384
IC	80.06	25.11	2/22/2024 11:17:39 AM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.55	**h****	0.4384
IC	79.44	24.91	2/22/2024 11:19:51 AM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.55	**h****	0.4384

ENTHALPY SPIKE USER REPORT FOR 502013 TOC Water
SM 5310B

Type: MSS	Type: MS	Type: MSD
Inst: CHEM-TOC01	Inst: CHEM-TOC01	Inst: CHEM-TOC01
Seqnum: 264065295010	Seqnum: 264065295011.1	Seqnum: 264065295012.1
File: 202402140815010	File: 202402140815011	File: 202402140815012
IDF: 1.0	IDF: 1.0	IDF: 1.0
Lab ID: 502011-001	Lab ID: QC1127902	Lab ID: QC1127903
Matrix: Water	Matrix: Water	Matrix: Water
Batch: 332935	Batch: 332935	Batch: 332935
Time: 14-FEB-2024 11:14	Time: 14-FEB-2024 11:28	Time: 14-FEB-2024 11:42
Units: mg/L		

- MSS:
- MS:
- MSD:

Analyte	MSS	Ch	Spiked	MS	Ch	%Rec	MSD	Ch	%Rec	Limits	RPD	Lim	Flags
Total Organic Carbon	3.405	P	25.00	29.75	P	105	29.11	P	103	80-120	2	20	u

u=use

TOCControlL Export

Sample Name: MS, QC1127902, 332935, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:29.75mg/L TC:68.68mg/L IC:38.93mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 4	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	206.3	68.35	2/14/2024 11:28:17 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.68	1.414
TC	208.3	69.01	2/14/2024 11:31:16 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.68	1.414
IC	119.9	38.84	2/14/2024 11:33:56 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.35	0.4243
IC	120.5	39.03	2/14/2024 11:36:16 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.35	0.4243

TOCControlL Export

Sample Name: MSD,QC1127903,332935,S19972,40X,S19305,40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:29.11mg/L TC:69.39mg/L IC:40.28mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 5	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	209.4	69.37	2/14/2024 11:42:32 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.03	0.07071
TC	209.5	69.41	2/14/2024 11:45:34 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.03	0.07071
IC	124.0	40.16	2/14/2024 11:48:15 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.40	0.4950
IC	124.7	40.39	2/14/2024 11:50:34 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.40	0.4950

ENTHALPY SPIKE USER REPORT FOR 502013 TOC Water
SM 5310B

Type: MSS	Type: MS	Type: MSD
Inst: CHEM-TOC01	Inst: CHEM-TOC01	Inst: CHEM-TOC01
Seqnum: 264065295013	Seqnum: 264065295014.1	Seqnum: 264065295015.1
File: 202402140815013	File: 202402140815014	File: 202402140815015
IDF: 1.0	IDF: 1.0	IDF: 1.0
Lab ID: 502011-013	Lab ID: QC1127904	Lab ID: QC1127905
Matrix: Water	Matrix: Water	Matrix: Water
Batch: 332935	Batch: 332935	Batch: 332935
Time: 14-FEB-2024 11:56	Time: 14-FEB-2024 12:10	Time: 14-FEB-2024 12:24
Units: mg/L		

- MSS:
- MS:
- MSD:

Analyte	MSS	Ch	Spiked	MS	Ch	%Rec	MSD	Ch	%Rec	Limits	RPD	Lim	Flags
Total Organic Carbon	1.866	P	25.00	29.81	P	112	29.04	P	109	80-120	3	20	u

u=use

TOCControlL Export

Sample Name: MS, QC1127904, 332935, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:29.81mg/L TC:67.93mg/L IC:38.12mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 7	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	204.9	67.88	2/14/2024 12:10:25 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.10	0.2121
TC	205.2	67.98	2/14/2024 12:13:29 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.10	0.2121
IC	117.4	38.03	2/14/2024 12:16:09 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.36	0.4243
IC	118.0	38.22	2/14/2024 12:18:25 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.36	0.4243

TOCControlL Export

Sample Name: MSD, QC1127905, 332935, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:29.04mg/L TC:67.73mg/L IC:38.69mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 8	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	203.4	67.39	2/14/2024 12:24:38 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.73	1.485
TC	205.5	68.08	2/14/2024 12:27:46 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.73	1.485
IC	119.4	38.67	2/14/2024 12:30:26 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.06	0.07071
IC	119.5	38.71	2/14/2024 12:32:41 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.06	0.07071

ENTHALPY SPIKE USER REPORT FOR 502013 TOC Water
SM 5310B

Type: MSS	Type: MS	Type: MSD
Inst: CHEM-TOC01	Inst: CHEM-TOC01	Inst: CHEM-TOC01
Seqnum: 264076808009	Seqnum: 264076808010.3	Seqnum: 264076808011.3
File: 202402220808009	File: 202402220808010	File: 202402220808011
IDF: 1.0	IDF: 1.0	IDF: 1.0
Lab ID: 502013-004	Lab ID: QC1129979	Lab ID: QC1129980
Matrix: Water	Matrix: Water	Matrix: Water
Batch: 333568	Batch: 333568	Batch: 333568
Time: 22-FEB-2024 11:25	Time: 22-FEB-2024 11:39	Time: 22-FEB-2024 11:53
Units: mg/L		

- MSS:
- MS:
- MSD:

Analyte	MSS	Ch	Spiked	MS	Ch	%Rec	MSD	Ch	%Rec	Limits	RPD	Lim	Flags
Total Organic Carbon	2.170	P	25.00	29.30	P	109	28.05	P	104	80-120	4	20	u

u=use

TOCControlL Export

Sample Name: MS, QC1129979, 333568, S19972, 40X, S19305, 40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:29.30mg/L TC:73.55mg/L IC:44.24mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 4	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	224.2	74.28	2/22/2024 11:39:43 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.40	3.111
TC	219.8	72.82	2/22/2024 11:42:44 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	1.40	3.111
IC	137.3	44.47	2/22/2024 11:45:27 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.72	0.9899
IC	135.9	44.02	2/22/2024 11:47:46 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.72	0.9899

TOCControlL Export

Sample Name: MSD,QC1129980,333568,S19972,40X,S19305,40X	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:28.05mg/L TC:73.43mg/L IC:45.38mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\231017 TC-IC Method.met	Rem.: *****
Spl. No.: 1	Vial: 5	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	221.9	73.51	2/22/2024 11:53:57 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.16	0.3536
TC	221.4	73.35	2/22/2024 11:56:57 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal	0.16	0.3536
IC	140.3	45.44	2/22/2024 11:59:38 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.20	0.2828
IC	139.9	45.31	2/22/2024 12:01:55 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal	0.20	0.2828



Initial Calibration

TOC-Control L Report

2023_10_17_001_Calibration.tlx

Instr. Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
High Sensitivity

Cal. Curve

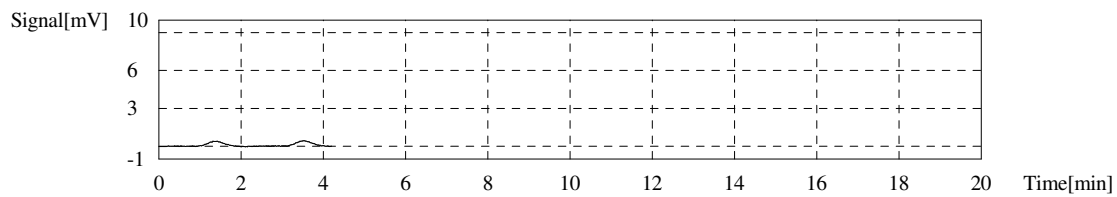
Sample Name: ICAL, S19030
Sample ID: ICAL_TC_LOW
Cal. Curve: ICAL_TC_LOW.2023_10_17_00_26_39.cal
Status: Completed
Comment:

Type	Anal.
Standard	TC

Conc: 0.3000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.151	50uL	66.67	*****		10/17/2023 12:34:28 AM
2	1.198	50uL	66.67	*****		10/17/2023 12:36:44 AM

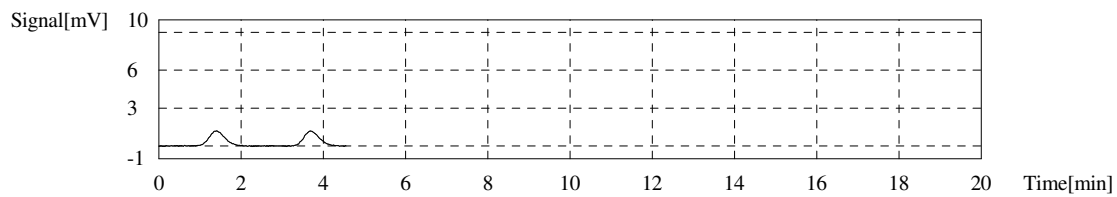
Acid Add. 0.000%
Mean Area 1.175
SD Area 0.03323
CV Area 2.83%
Vial 25



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.253	50uL	20.00	*****		10/17/2023 12:42:52 AM
2	3.229	50uL	20.00	*****		10/17/2023 12:45:20 AM

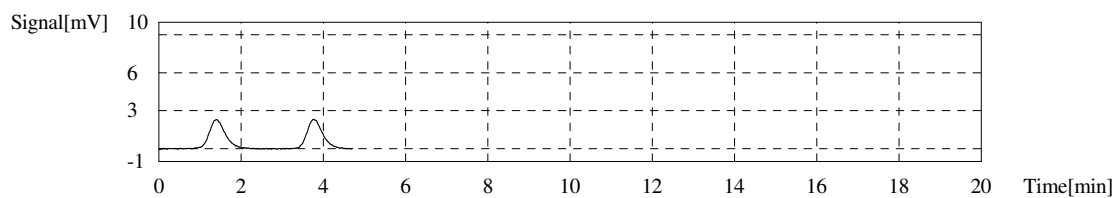
Acid Add. 0.000%
Mean Area 3.241
SD Area 0.01697
CV Area 0.52%
Vial 25



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.196	50uL	10.00	*****		10/17/2023 12:51:33 AM
2	6.151	50uL	10.00	*****		10/17/2023 12:54:06 AM

Acid Add. 0.000%
Mean Area 6.174
SD Area 0.03182
CV Area 0.52%
Vial 25



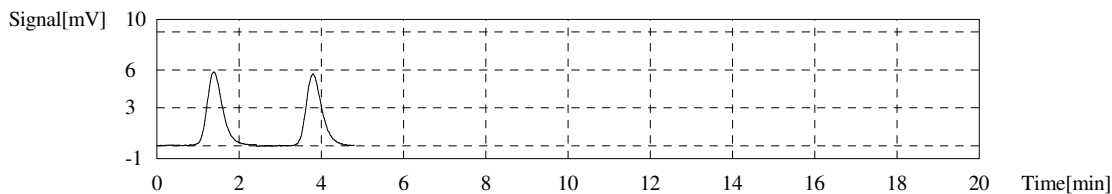
Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	15.09	50uL	4.000	*****		10/17/2023 1:00:21 AM
2	15.12	50uL	4.000	*****		10/17/2023 1:02:57 AM

TOC-Control L Report

2023_10_17_001_Calibration.tlx

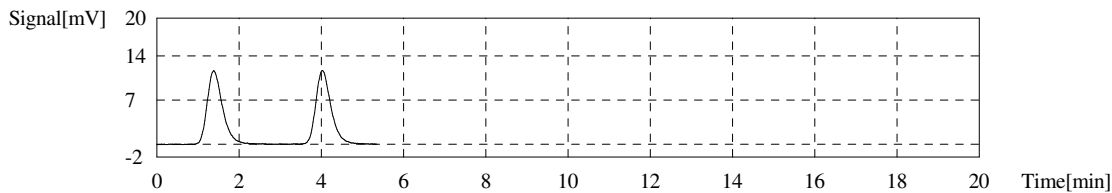
Acid Add. 0.000%
Mean Area 15.11
SD Area 0.02121
CV Area 0.14%
Vial 25



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.98	50uL	2.000	*****		10/17/2023 1:09:26 AM
2	29.92	50uL	2.000	*****		10/17/2023 1:12:24 AM

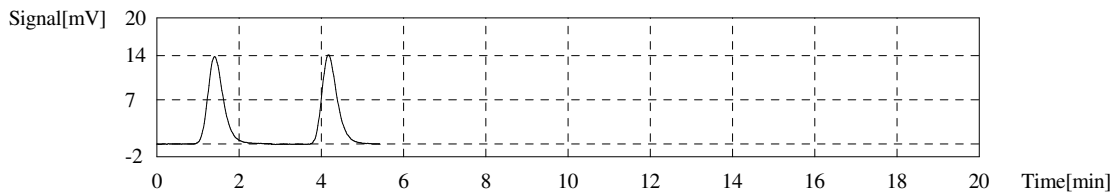
Acid Add. 0.000%
Mean Area 29.95
SD Area 0.04243
CV Area 0.14%
Vial 25



Conc: 12.50mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	36.71	50uL	1.600	*****		10/17/2023 1:19:01 AM
2	37.10	50uL	1.600	*****		10/17/2023 1:21:56 AM

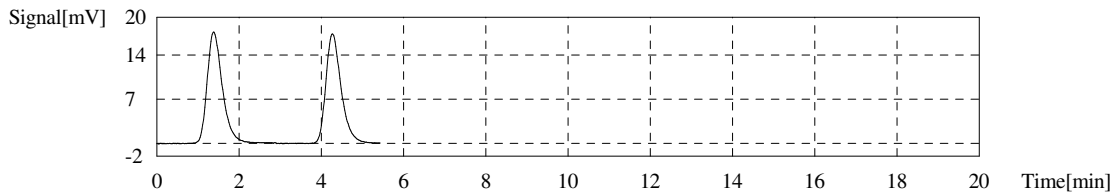
Acid Add. 0.000%
Mean Area 36.91
SD Area 0.2758
CV Area 0.75%
Vial 25



Conc: 15.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	45.38	50uL	1.333	*****		10/17/2023 1:28:40 AM
2	44.75	50uL	1.333	*****		10/17/2023 1:31:27 AM

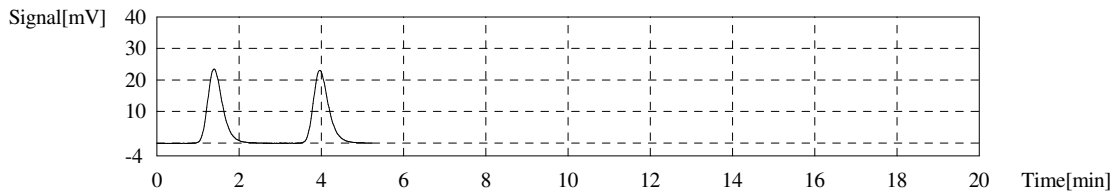
Acid Add. 0.000%
Mean Area 45.06
SD Area 0.4455
CV Area 0.99%
Vial 25



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	60.09	50uL	1.000	*****		10/17/2023 1:35:29 AM
2	60.20	50uL	1.000	*****		10/17/2023 1:38:21 AM

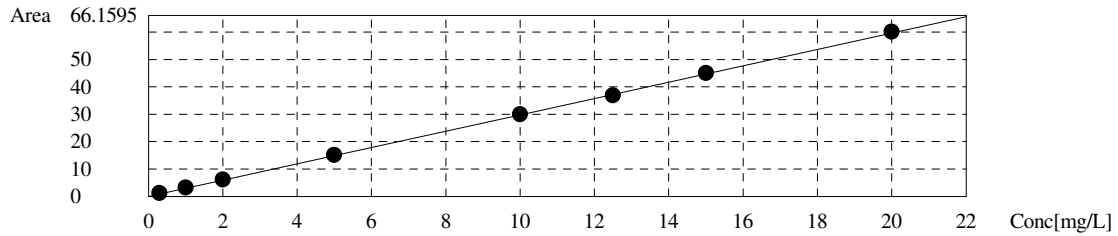
Acid Add. 0.000%
Mean Area 60.15
SD Area 0.07778
CV Area 0.13%
Vial 25



TOC-Control L Report

2023_10_17_001_Calibration.tlx

Slope: 2.984
 Intercept: 0.000
 r^2 : 0.9999
 r: 0.9999
 Zero Shift: Yes



Cal. Curve

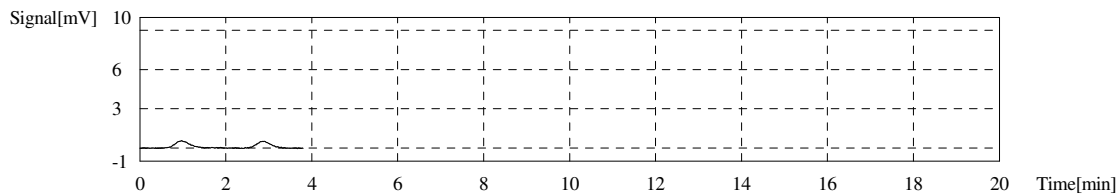
Sample Name: ICAL, S17684
 Sample ID: ICAL_IC_LOW
 Cal. Curve: ICAL_IC_LOW.2023_10_17_02_03_13.cal
 Status: Completed
 Comment:

Type	Anal.
Standard	IC

Conc: 0.3000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.261	50uL	66.67	*****		10/17/2023 2:10:36 AM
2	1.317	50uL	66.67	*****		10/17/2023 2:12:44 AM

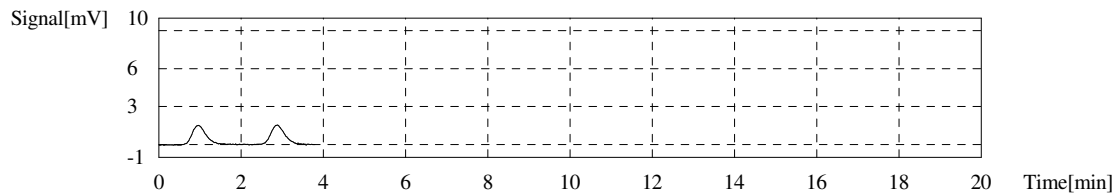
Mean Area: 1.289
 SD Area: 0.03960
 CV Area: 3.07%
 Vial: 26



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.551	50uL	20.00	*****		10/17/2023 2:18:29 AM
2	3.559	50uL	20.00	*****		10/17/2023 2:20:38 AM

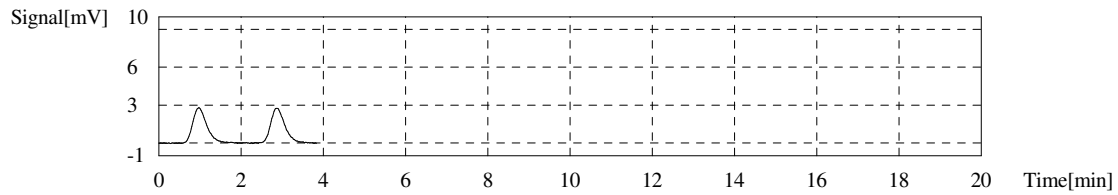
Mean Area: 3.555
 SD Area: 0.00566
 CV Area: 0.16%
 Vial: 26



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.634	50uL	10.00	*****		10/17/2023 2:26:22 AM
2	6.540	50uL	10.00	*****		10/17/2023 2:28:32 AM

Mean Area: 6.587
 SD Area: 0.06647
 CV Area: 1.01%
 Vial: 26



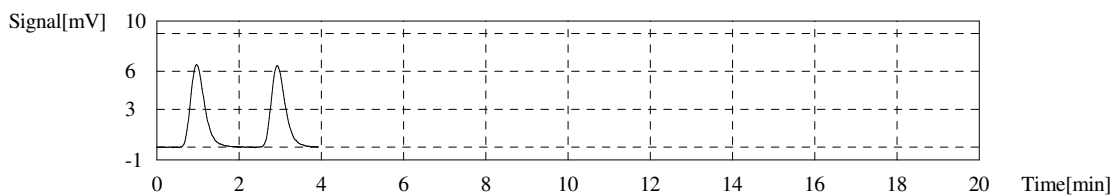
Conc: 5.000mg/L

TOC-Control L Report

2023_10_17_001_Calibration.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	15.62	50uL	4.000	*****		10/17/2023 2:34:20 AM
2	15.48	50uL	4.000	*****		10/17/2023 2:36:33 AM

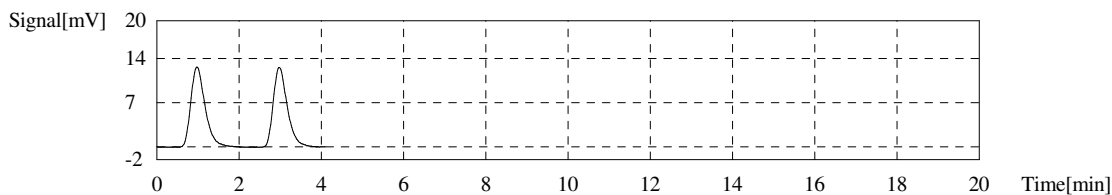
Mean Area 15.55
SD Area 0.09899
CV Area 0.64%
Vial 26



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	30.44	50uL	2.000	*****		10/17/2023 2:42:24 AM
2	30.10	50uL	2.000	*****		10/17/2023 2:44:44 AM

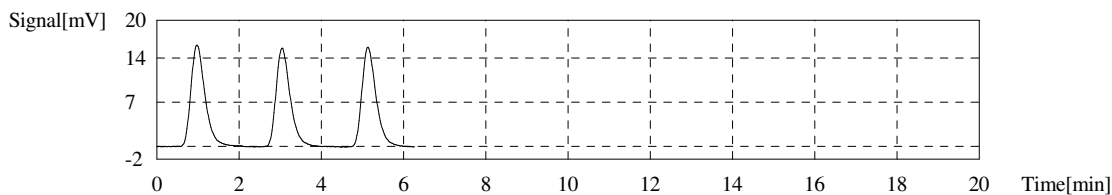
Mean Area 30.27
SD Area 0.2404
CV Area 0.79%
Vial 26



Conc: 12.50mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	38.16	50uL	1.600	*****		10/17/2023 2:50:39 AM
2	37.31	50uL	1.600	*****	E	10/17/2023 2:53:00 AM
3	37.88	50uL	1.600	*****		10/17/2023 2:55:20 AM

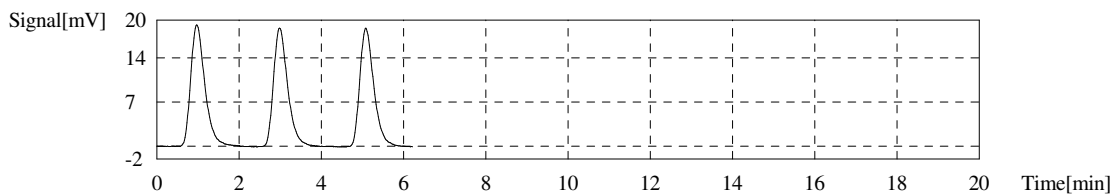
Mean Area 38.02
SD Area 0.1980
CV Area 0.52%
Vial 26



Conc: 15.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	45.93	50uL	1.333	*****	E	10/17/2023 3:01:10 AM
2	45.12	50uL	1.333	*****		10/17/2023 3:03:31 AM
3	44.72	50uL	1.333	*****		10/17/2023 3:05:51 AM

Mean Area 44.92
SD Area 0.2828
CV Area 0.63%
Vial 26



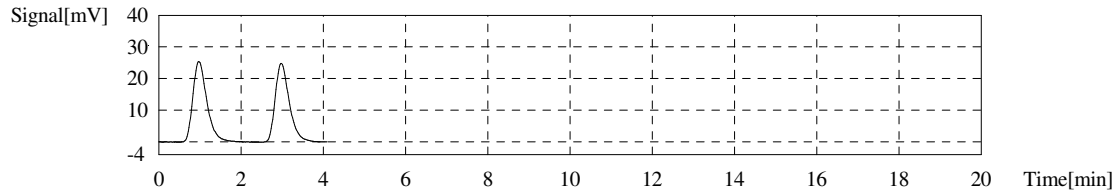
Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	60.10	50uL	1.000	*****		10/17/2023 3:10:13 AM
2	59.27	50uL	1.000	*****		10/17/2023 3:12:33 AM

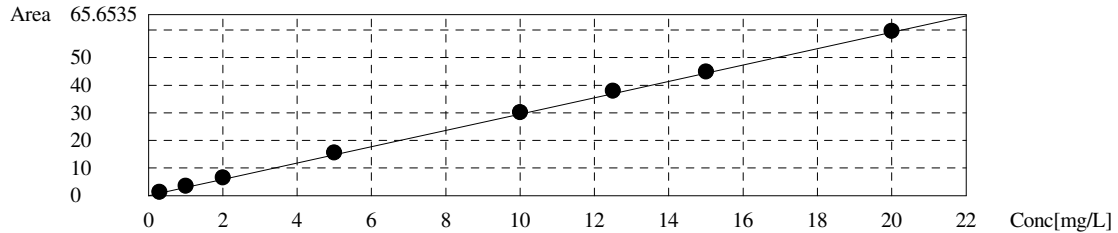
TOC-Control L Report

2023_10_17_001_Calibration.tlx

Mean Area 59.69
 SD Area 0.5869
 CV Area 0.98%
 Vial 26



Slope: 2.962
 Intercept 0.000
 r^2 0.9999
 r 1.0000
 Zero Shift Yes



Cal. Curve

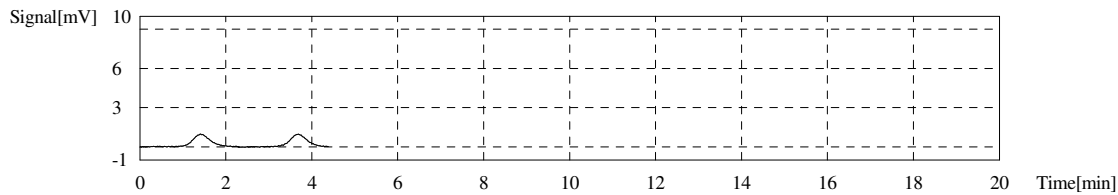
Sample Name: ICAL, S19030
 Sample ID: ICAL_TC_HIGH
 Cal. Curve: ICAL_TC_HIGH.2023_10_17_14_47_44.cal
 Status: Completed
 Comment:

Type	Anal.
Standard	TC

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.615	50uL	200.0	*****		10/17/2023 2:55:34 PM
2	2.689	50uL	200.0	*****		10/17/2023 2:57:54 PM

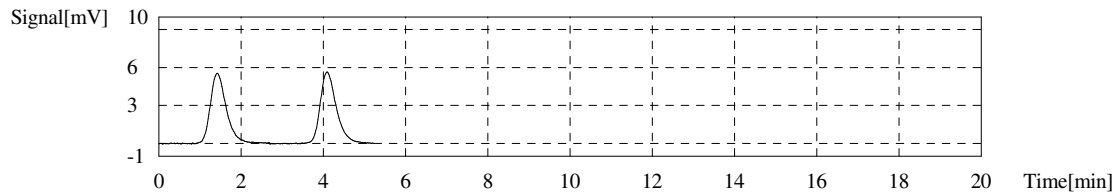
Acid Add. 0.000%
 Mean Area 2.652
 SD Area 0.05233
 CV Area 1.97%
 Vial 20



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	15.12	50uL	40.00	*****		10/17/2023 3:04:25 PM
2	15.26	50uL	40.00	*****		10/17/2023 3:07:14 PM

Acid Add. 0.000%
 Mean Area 15.19
 SD Area 0.09899
 CV Area 0.65%
 Vial 20



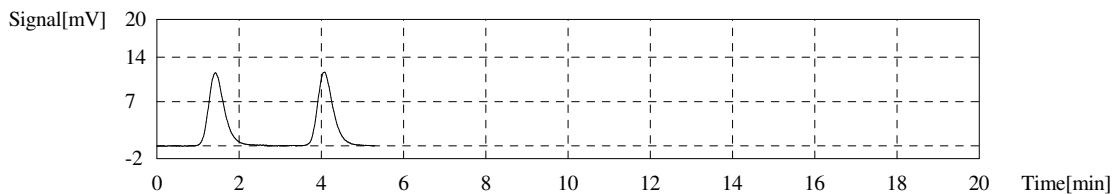
Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	30.49	50uL	20.00	*****		10/17/2023 3:13:45 PM
2	30.55	50uL	20.00	*****		10/17/2023 3:16:37 PM

TOC-Control L Report

2023_10_17_001_Calibration.tlx

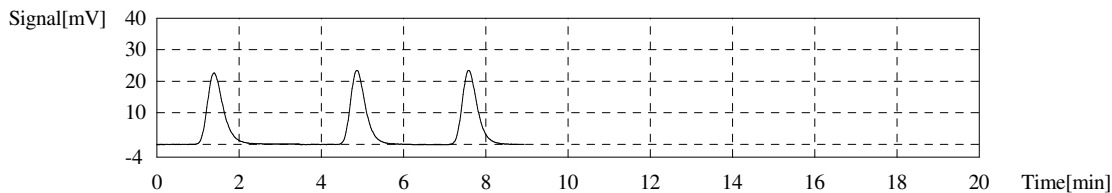
Acid Add. 0.000%
Mean Area 30.52
SD Area 0.04243
CV Area 0.14%
Vial 20



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	62.01	50uL	10.00	*****	E	10/17/2023 3:23:55 PM
2	60.28	50uL	10.00	*****		10/17/2023 3:26:54 PM
3	60.56	50uL	10.00	*****		10/17/2023 3:29:52 PM

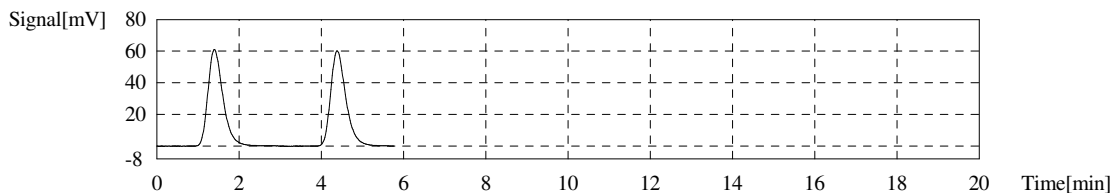
Acid Add. 0.000%
Mean Area 60.42
SD Area 0.1980
CV Area 0.33%
Vial 20



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	155.2	50uL	4.000	*****		10/17/2023 3:36:41 PM
2	154.9	50uL	4.000	*****		10/17/2023 3:39:42 PM

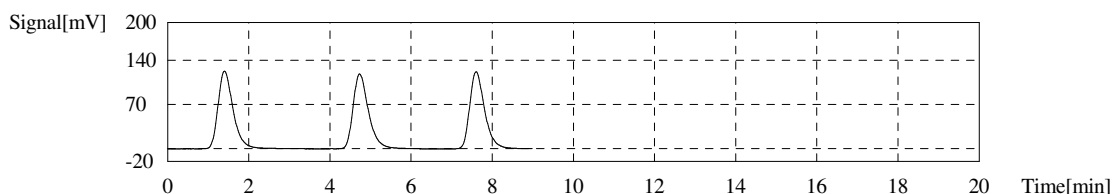
Acid Add. 0.000%
Mean Area 155.1
SD Area 0.2121
CV Area 0.14%
Vial 20



Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	316.7	50uL	2.000	*****	E	10/17/2023 3:46:54 PM
2	311.4	50uL	2.000	*****		10/17/2023 3:50:00 PM
3	311.4	50uL	2.000	*****		10/17/2023 3:53:02 PM

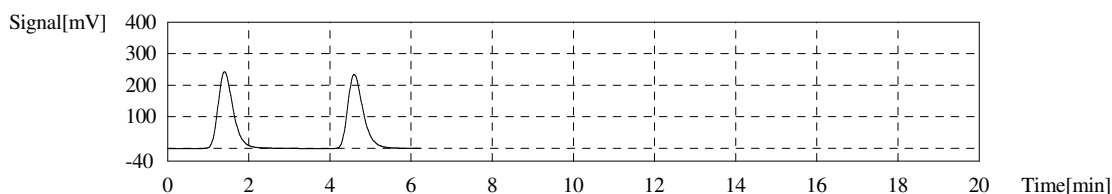
Acid Add. 0.000%
Mean Area 311.4
SD Area 0.000
CV Area 0.00%
Vial 20



Conc: 200.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	629.2	50uL	1.000	*****		10/17/2023 3:57:50 PM
2	621.9	50uL	1.000	*****		10/17/2023 4:01:05 PM

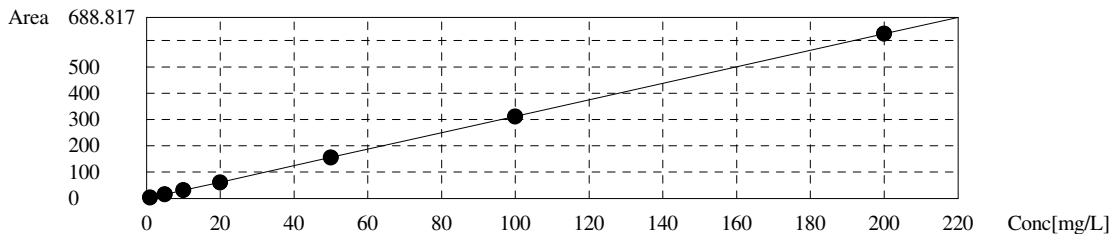
Acid Add. 0.000%
Mean Area 625.5
SD Area 5.162
CV Area 0.83%
Vial 20



TOC-Control L Report

2023_10_17_001_Calibration.tx

Slope: 3.131
 Intercept: 0.000
 r^2 : 1.0000
 r : 1.0000
 Zero Shift: Yes



Cal. Curve

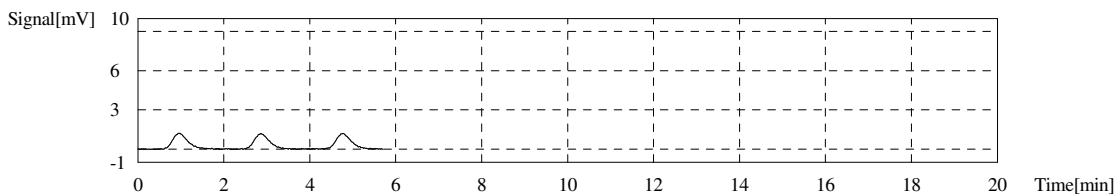
Sample Name: ICAL, S17684
 Sample ID: ICAL_IC_HIGH
 Cal. Curve: ICAL_IC_HIGH.2023_10_17_16_18_37.cal
 Status: Completed
 Comment:

Type	Anal.
Standard	IC

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.679	50uL	200.0	*****	E	10/17/2023 4:25:59 PM
2	2.845	50uL	200.0	*****		10/17/2023 4:28:07 PM
3	2.830	50uL	200.0	*****		10/17/2023 4:30:15 PM

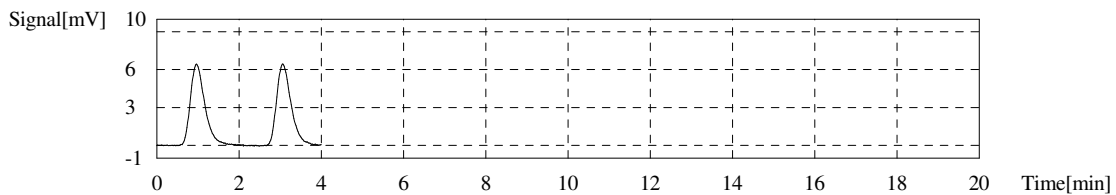
Mean Area: 2.838
 SD Area: 0.01061
 CV Area: 0.37%
 Vial: 21



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	15.67	50uL	40.00	*****		10/17/2023 4:36:10 PM
2	15.74	50uL	40.00	*****		10/17/2023 4:38:18 PM

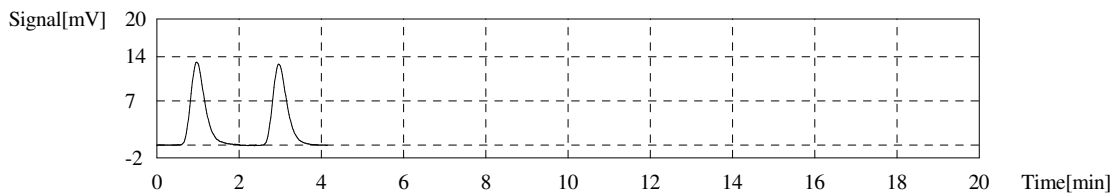
Mean Area: 15.71
 SD Area: 0.04950
 CV Area: 0.32%
 Vial: 21



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	31.46	50uL	20.00	*****		10/17/2023 4:44:08 PM
2	31.28	50uL	20.00	*****		10/17/2023 4:46:33 PM

Mean Area: 31.37
 SD Area: 0.1273
 CV Area: 0.41%
 Vial: 21



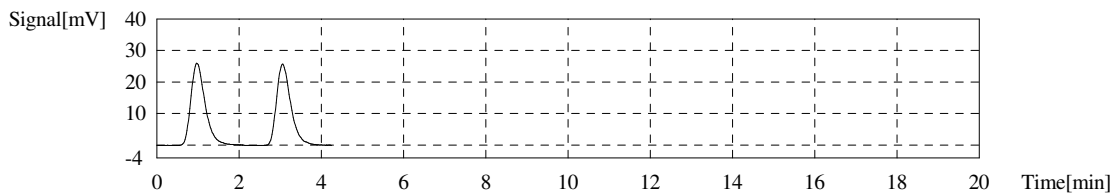
Conc: 20.00mg/L

TOC-Control L Report

2023_10_17_001_Calibration.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	62.62	50uL	10.00	*****		10/17/2023 4:52:28 PM
2	62.34	50uL	10.00	*****		10/17/2023 4:54:53 PM

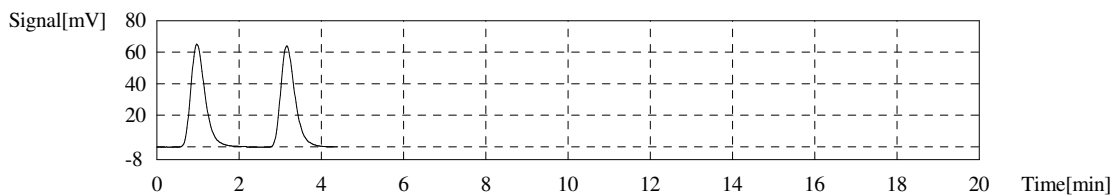
Mean Area 62.48
 SD Area 0.1980
 CV Area 0.32%
 Vial 21



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	156.5	50uL	4.000	*****		10/17/2023 5:00:54 PM
2	155.3	50uL	4.000	*****		10/17/2023 5:03:22 PM

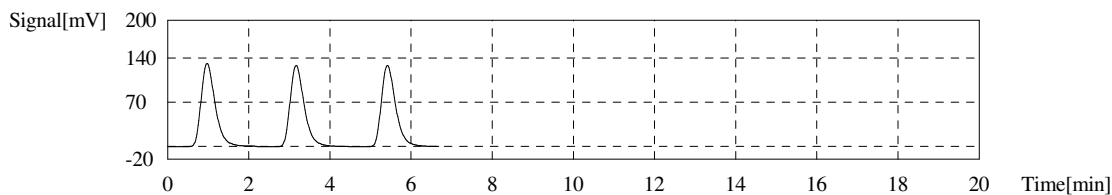
Mean Area 155.9
 SD Area 0.8485
 CV Area 0.54%
 Vial 21



Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	315.8	50uL	2.000	*****	E	10/17/2023 5:09:24 PM
2	309.8	50uL	2.000	*****		10/17/2023 5:11:55 PM
3	310.7	50uL	2.000	*****		10/17/2023 5:14:39 PM

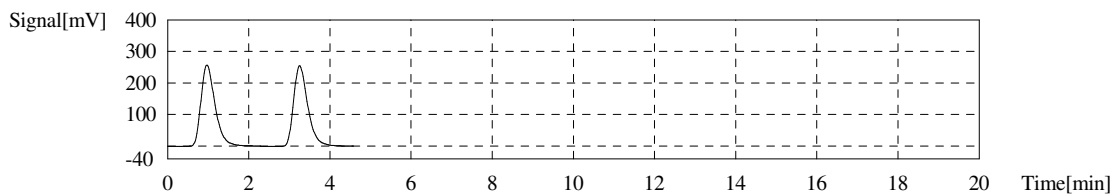
Mean Area 310.3
 SD Area 0.6364
 CV Area 0.21%
 Vial 21



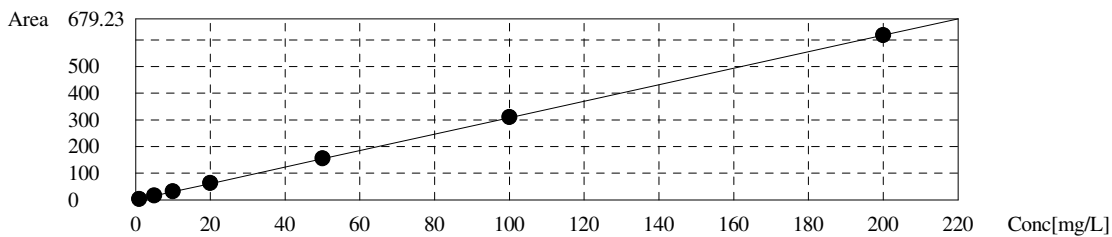
Conc: 200.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	618.5	50uL	1.000	*****		10/17/2023 5:19:17 PM
2	616.3	50uL	1.000	*****		10/17/2023 5:22:05 PM

Mean Area 617.4
 SD Area 1.556
 CV Area 0.25%
 Vial 21



Slope: 3.087
 Intercept 0.000
 r^2 1.0000
 r 1.0000
 Zero Shift Yes



TOC-Control L Report

2023_10_17_002.tlx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
High Sensitivity

Control Sample

Sample Name: ICV, S18937, 100
 Sample ID: ICV_TC_10 ppm
 Method: ICV_TC_10 ppm.tpl
 Status: Completed
 Chk. Result: Control value: 9.775 / Control exceeds range!
 Comment:

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Use Blank Value Blind Value: 0.3500 Inj. Vol: 2000uL

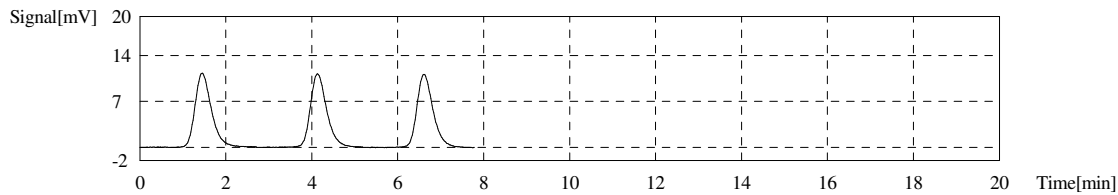
Type	Anal.	Manual Dilution	Result
Control	IC	1.000	TC:9.775mg/L

1. Det.

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	29.83	9.934mg/L	50uL	1.000	*****	E	ICAL_TC_LOW.2023_10_17_00_26_39.cal	10/17/2023 6:46:27 PM
2	29.34	9.770mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023_10_17_00_26_39.cal	10/17/2023 6:49:11 PM
3	29.37	9.780mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023_10_17_00_26_39.cal	10/17/2023 6:52:02 PM

Mean Area 29.36
 Mean Conc. 9.775mg/L
 SD Area 0.02121
 SD Conc 0.00711
 Vial 61



Control Sample

Sample Name: ICV, S19062, 100
 Sample ID: ICV_IC_10 ppm
 Method: ICV_IC_10 ppm.tpl
 Status: Completed
 Chk. Result: Control value: 10.44 / Control exceeds range!
 Comment:

Type	Anal.	Manual Dilution	Result
Control	IC	1.000	IC:10.44mg/L

1. Det.

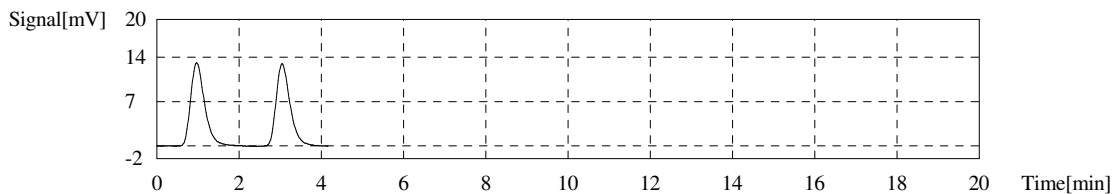
Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	30.96	10.45mg/L	50uL	1.000	*****		ICAL_IC_LOW.2023_10_17_02_03_13.cal	10/17/2023 6:58:13 PM
2	30.88	10.43mg/L	50uL	1.000	*****		ICAL_IC_LOW.2023_10_17_02_03_13.cal	10/17/2023 7:00:33 PM

TOC-Control L Report

2023_10_17_002.tlx

Mean Area 30.92
 Mean Conc. 10.44mg/L
 SD Area 0.05657
 SD Conc 0.01910
 Vial 62



Sample

Sample Name: ICV, S18937.40,S19062.40
 Sample ID: ICV_HIGH_50 ppm TOC+IC
 Origin: ICV_HIGH_50 ppm TOC+IC.met
 Status: Completed
 Chk. Result
 Comment
 Use Blank Value Blind Value: 0.3500 Inj. Vol: 2000uL

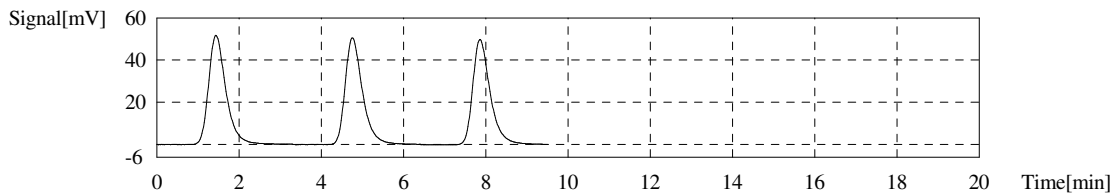
Type	Anal.	Manual Dilution	Result
Unknown	TOC	1.000	TOC:22.16mg/L TC:47.03mg/L IC:24.87mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	151.7	48.45mg/L	50uL	1.000	*****	E	ICAL_TC_HIGH.2023_10_17_14_47_44.cal	10/17/2023 7:07:17 PM
2	148.2	47.33mg/L	50uL	1.000	*****		ICAL_TC_HIGH.2023_10_17_14_47_44.cal	10/17/2023 7:10:39 PM
3	146.3	46.72mg/L	50uL	1.000	*****		ICAL_TC_HIGH.2023_10_17_14_47_44.cal	10/17/2023 7:13:59 PM

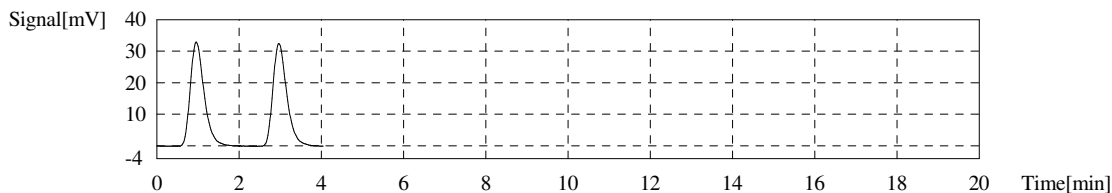
Mean Area 147.3
 Mean Conc. 47.03mg/L
 SD Area 1.344
 SD Conc 0.4291
 Vial 63



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	76.97	24.93mg/L	50uL	1.000	*****		ICAL_IC_HIGH.2023_10_17_16_18_37.cal	10/17/2023 7:16:37 PM
2	76.57	24.80mg/L	50uL	1.000	*****		ICAL_IC_HIGH.2023_10_17_16_18_37.cal	10/17/2023 7:18:53 PM

Mean Area 76.77
 Mean Conc. 24.87mg/L
 SD Area 0.2828
 SD Conc 0.09161
 Vial 63



Sample

Sample Name: ICB
 Sample ID: ICB
 Origin: ICB.met
 Status: Completed
 Chk. Result
 Comment
 Use Blank Value Blind Value: 0.3500 Inj. Vol: 2000uL

TOC-Control L Report

2023_10_17_002.tlx

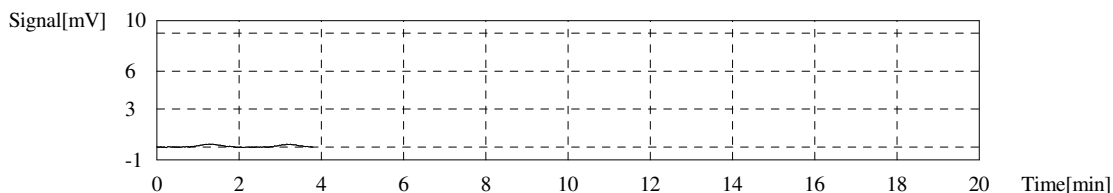
Type	Anal.	Manual Dilution	Result
Unknown	TOC	1.000	TOC:0.1044mg/L TC:0.2427mg/L IC:0.1384mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	0.7176	0.2375mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023_10_17_00_26_39.cal	10/17/2023 7:30:39 PM
2	0.7487	0.2479mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023_10_17_00_26_39.cal	10/17/2023 7:32:46 PM

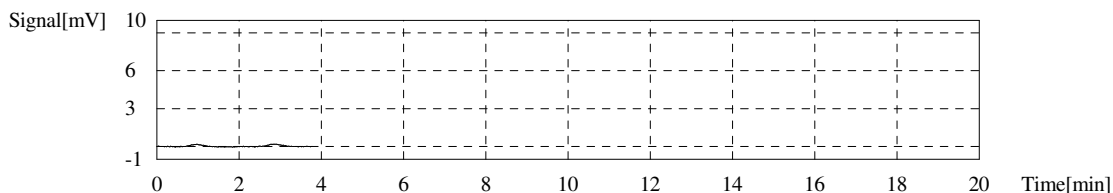
Mean Area 0.7331
 Mean Conc. 0.2427mg/L
 SD Area 0.02199
 SD Conc 0.00737
 Vial 0



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	0.4053	0.1368mg/L	50uL	1.000	*****		ICAL_IC_LOW.2023_10_17_02_03_13.cal	10/17/2023 7:36:50 PM
2	0.4144	0.1399mg/L	50uL	1.000	*****		ICAL_IC_LOW.2023_10_17_02_03_13.cal	10/17/2023 7:38:57 PM

Mean Area 0.4099
 Mean Conc. 0.1384mg/L
 SD Area 0.00643
 SD Conc 0.00217
 Vial 0



Instr. Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: High Sensitivity

Sample

Sample Name: Rinse (3)
Sample ID: Rinse (3).met
Origin: Completed
Chk. Result:
Comment:
Use Blank Value: Blind Value: 0.9700 Inj. Vol: 2000uL

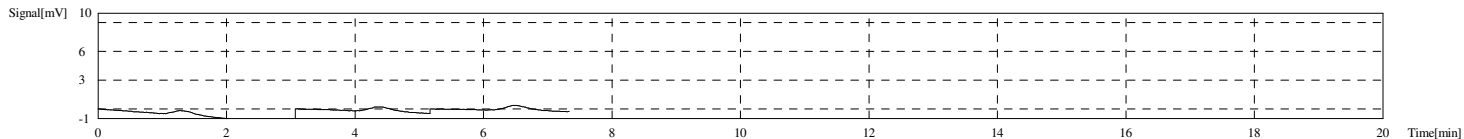
Type	Anal.	Manual Dilution	Result
Unknown	TOC	1.000	TOC:0.01387mg/L TC:0.09920mg/L IC:0.1131mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	0.3325	0.03043mg/L	150uL	1.000	*****		ICAL_TC_LOW.2023_12_17_19_30_27.cal	12/29/2023 3:31:15 PM
2	1.186	0.1304mg/L	150uL	1.000	*****		ICAL_TC_LOW.2023_12_17_19_30_27.cal	12/29/2023 3:33:43 PM
3	1.240	0.1368mg/L	150uL	1.000	*****		ICAL_TC_LOW.2023_12_17_19_30_27.cal	12/29/2023 3:36:11 PM

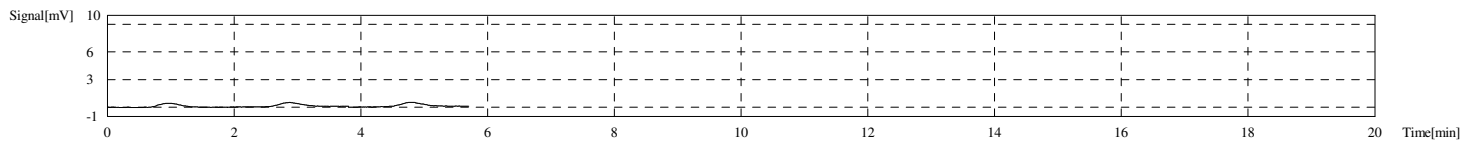
Mean Area: 0.9195
Mean Conc.: 0.09920mg/L
SD Area: 0.5091
SD Conc: 0.05964
Vial: 0



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	1.072	0.1121mg/L	150uL	1.000	*****		ICAL_IC_LOW.2023_11_30_11_23_08.cal	12/29/2023 3:40:15 PM
2	1.079	0.1128mg/L	150uL	1.000	*****		ICAL_IC_LOW.2023_11_30_11_23_08.cal	12/29/2023 3:42:23 PM
3	1.094	0.1144mg/L	150uL	1.000	*****		ICAL_IC_LOW.2023_11_30_11_23_08.cal	12/29/2023 3:44:35 PM

Mean Area: 1.082
Mean Conc.: 0.1131mg/L
SD Area: 0.01124
SD Conc: 0.00118
Vial: 0



Cal. Curve

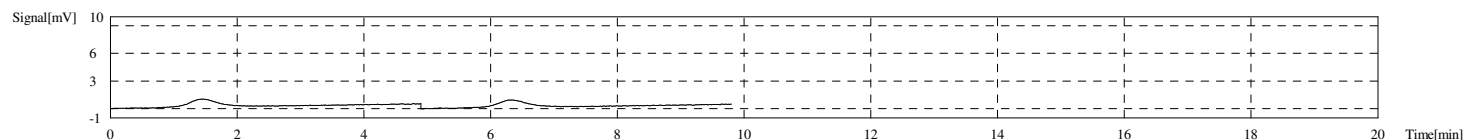
Sample Name: ICAL S19120
Sample ID: ICAL_TC_HIGH
Cal. Curve: ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Status: Completed
Comment:

Type	Anal.
Standard	TC

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.125	50uL	200.0	T*****		12/29/2023 3:55:02 PM
2	3.074	50uL	200.0	T*****		12/29/2023 4:00:12 PM

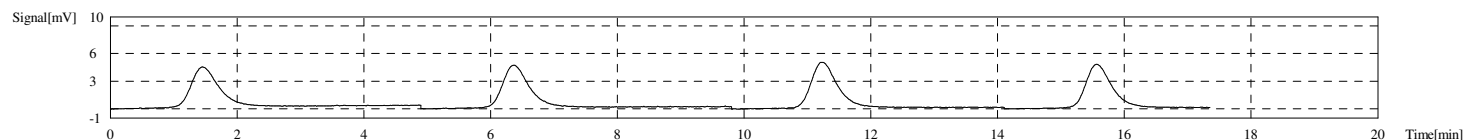
Acid Add. 0.000%
 Mean Area 3.099
 SD Area 0.03606
 CV Area 1.16%
 Vial 55



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	13.99	50ul	40.00	T*****		12/29/2023 4:08:56 PM
2	13.57	50ul	40.00	T*****	E	12/29/2023 4:14:05 PM
3	14.87	50ul	40.00	*****		12/29/2023 4:18:39 PM
4	13.84	50ul	40.00	*****		12/29/2023 4:22:09 PM

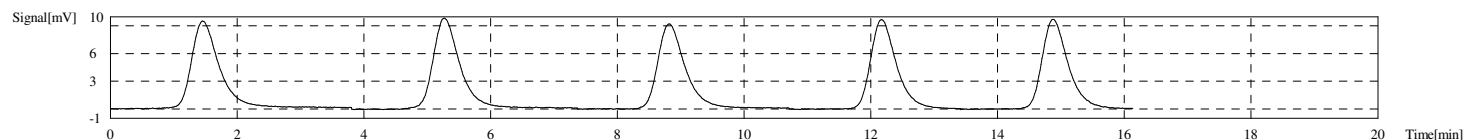
Acid Add. 0.000%
 Mean Area 13.91
 SD Area 0.1061
 CV Area 0.76%
 Vial 55



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	28.99	50ul	20.00	*****	E	12/29/2023 4:29:44 PM
2	29.71	50ul	20.00	*****	E	12/29/2023 4:33:34 PM
3	27.74	50ul	20.00	*****		12/29/2023 4:37:11 PM
4	27.29	50ul	20.00	*****	E	12/29/2023 4:40:12 PM
5	27.67	50ul	20.00	*****		12/29/2023 4:43:10 PM

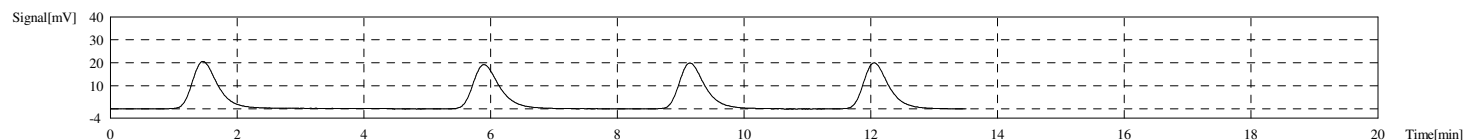
Acid Add. 0.000%
 Mean Area 27.71
 SD Area 0.04950
 CV Area 0.18%
 Vial 55



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	59.73	50ul	10.00	*****	E	12/29/2023 4:51:26 PM
2	57.05	50ul	10.00	*****	E	12/29/2023 4:54:55 PM
3	56.22	50ul	10.00	*****		12/29/2023 4:58:05 PM
4	56.19	50ul	10.00	*****		12/29/2023 5:01:16 PM

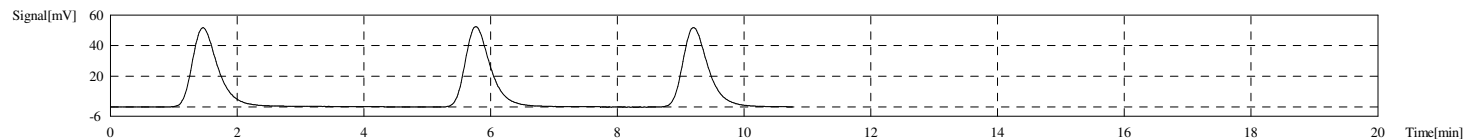
Acid Add. 0.000%
 Mean Area 56.21
 SD Area 0.02121
 CV Area 0.04%
 Vial 55



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	149.1	50ul	4.000	*****	E	12/29/2023 5:09:22 PM
2	146.4	50ul	4.000	*****		12/29/2023 5:13:02 PM
3	145.2	50ul	4.000	*****		12/29/2023 5:16:19 PM

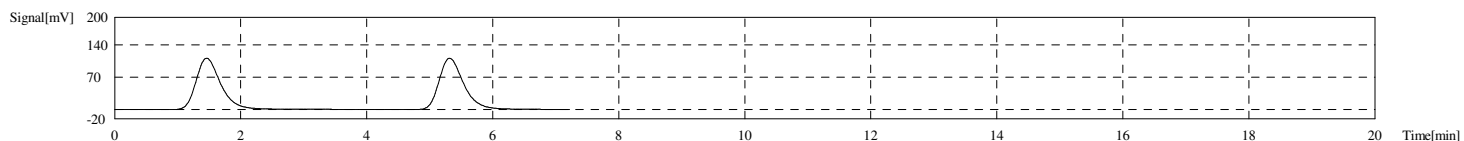
Acid Add. 0.000%
 Mean Area 145.8
 SD Area 0.8485
 CV Area 0.58%
 Vial 55



Conc: 100.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	305.2	50ul	2.000	*****		12/29/2023 5:23:59 PM
2	303.3	50ul	2.000	*****		12/29/2023 5:27:35 PM

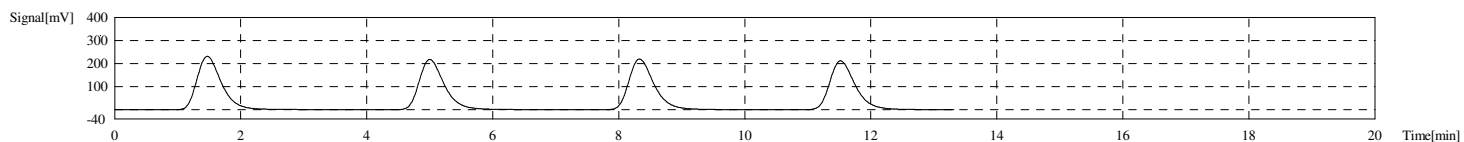
Acid Add. 0.000%
 Mean Area 304.3
 SD Area 1.344
 CV Area 0.44%
 Vial 55



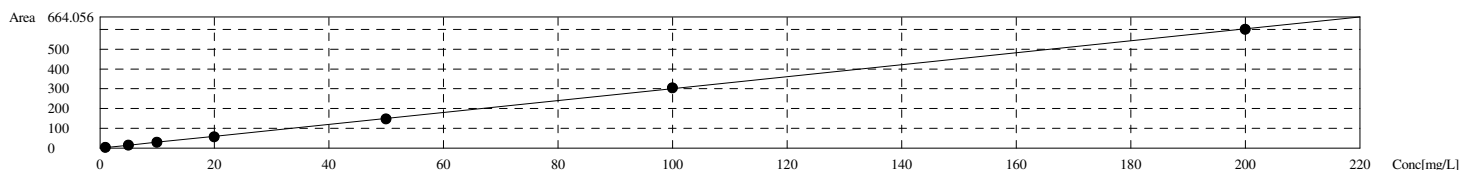
Conc: 200.0mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	627.0	50ul	1.000	*****	E	12/29/2023 5:32:43 PM
2	603.9	50ul	1.000	*****		12/29/2023 5:36:18 PM
3	613.2	50ul	1.000	*****	E	12/29/2023 5:39:44 PM
4	597.3	50ul	1.000	*****		12/29/2023 5:43:16 PM

Acid Add. 0.000%
 Mean Area 600.6
 SD Area 4.667
 CV Area 0.78%
 Vial 55



Slope: 3.018
 Intercept 0.000
 r² 0.9999
 r 0.9999
 Zero Shift Yes



Sample

Sample Name: Rinse (3)
 Sample ID: Rinse (3).met
 Origin: Completed
 Status: Completed
 Chk. Result: Completed
 Comment: Completed
 Use Blank Value: Blind Value: 0.9700 Inj. Vol: 2000uL

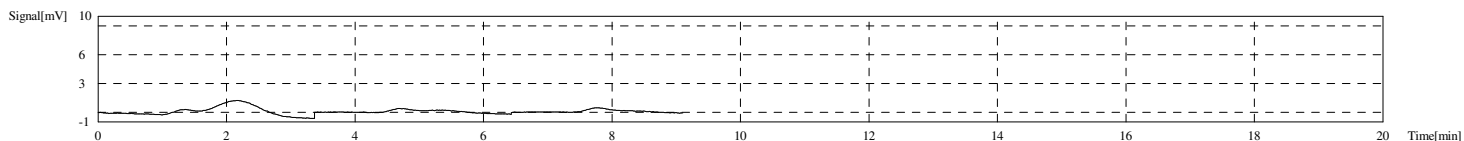
Type	Anal.	Manual Dilution	Result
Unknown	TOC	1.000	TOC:0.3973mg/L TC:0.5119mg/L IC:0.1146mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	9.146	1.063mg/L	150uL	1.000	*****		ICAL_TC_LOW2023_12_17_19_30_27.cal	12/29/2023 5:47:52 PM
2	2.349	0.2667mg/L	150uL	1.000	*****		ICAL_TC_LOW2023_12_17_19_30_27.cal	12/29/2023 5:51:14 PM
3	1.831	0.2060mg/L	150uL	1.000	*****		ICAL_TC_LOW2023_12_17_19_30_27.cal	12/29/2023 5:54:14 PM

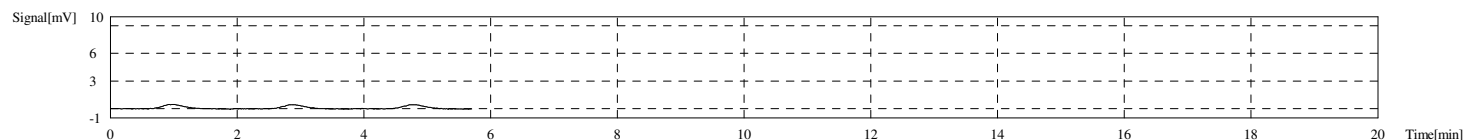
Mean Area 4.442
 Mean Conc. 0.5119mg/L
 SD Area 4.082
 SD Conc 0.4782
 Vial 0



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	1.177	0.1230mg/L	150uL	1.000	*****		ICAL_IC_LOW2023_11_30_11_23_08.cal	12/29/2023 5:58:17 PM
2	1.021	0.1067mg/L	150uL	1.000	*****		ICAL_IC_LOW2023_11_30_11_23_08.cal	12/29/2023 6:00:24 PM
3	1.090	0.1139mg/L	150uL	1.000	*****		ICAL_IC_LOW2023_11_30_11_23_08.cal	12/29/2023 6:02:31 PM

Mean Area 1.096
 Mean Conc. 0.1146mg/L
 SD Area 0.07817
 SD Conc 0.00817
 Vial 0



Control Sample

Sample Name: ICV.S18937.20X
 Sample ID: CCV_TC_50 ppm
 Method: CCV_TC_50 ppm IPL
 Status: Completed
 Chk. Result: Control value: 48.00 / Control within range!
 Comment:

Use Blank Value Blind Value: 0.9700 Inj. Vol: 2000uL

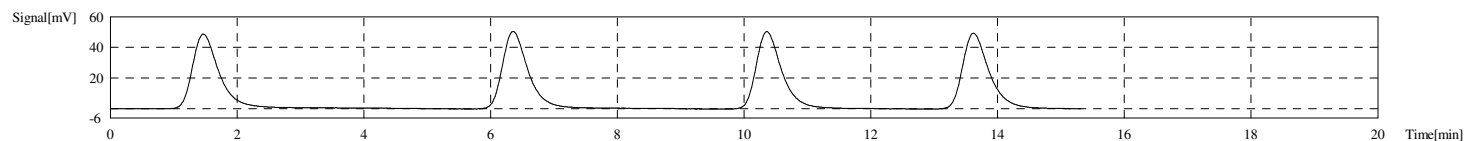
Type	Anal.	Manual Dilution	Result
Control	TC	1.000	TC:48.00mg/L

1. Det.

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	147.7	48.92mg/L	50uL	1.000	T*****	E	ICAL_TC_HIGH.2023.12.29.15.44.35.cal	12/29/2023 6:10:46 PM
2	145.3	48.13mg/L	50uL	1.000	*****		ICAL_TC_HIGH.2023.12.29.15.44.35.cal	12/29/2023 6:15:01 PM
3	142.3	47.14mg/L	50uL	1.000	*****	E	ICAL_TC_HIGH.2023.12.29.15.44.35.cal	12/29/2023 6:18:32 PM
4	144.5	47.86mg/L	50uL	1.000	*****		ICAL_TC_HIGH.2023.12.29.15.44.35.cal	12/29/2023 6:21:57 PM

Mean Area 144.9
 Mean Conc. 48.00mg/L
 SD Area 0.5657
 SD Conc 0.1874
 Vial 61



Sample

Sample Name: ICB
 Sample ID: CCB
 Origin: ICB.met
 Status: Completed
 Chk. Result: Control value: 0.07003mg/L TC:0.1854mg/L IC:0.1154mg/L
 Comment:
 Use Blank Value Blind Value: 0.9700 Inj. Vol: 2000uL

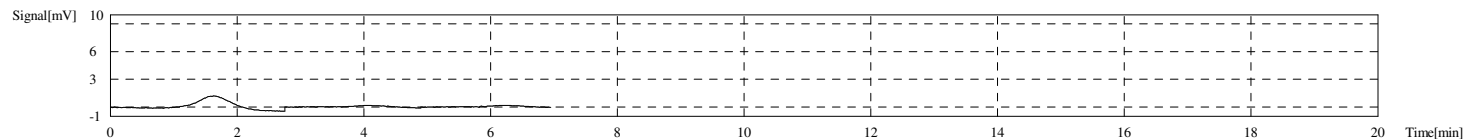
Type	Anal.	Manual Dilution	Result
Unknown	TOC	1.000	TOC:0.07003mg/L TC:0.1854mg/L IC:0.1154mg/L

1. Det.

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
1	5.323	1.862mg/L	50uL	1.000	*****	E	ICAL_TC_LOW.2023.12.17.19.30.27.cal	12/29/2023 6:25:59 PM
2	0.5928	0.1998mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023.12.17.19.30.27.cal	12/29/2023 6:28:30 PM
5	0.5109	0.1710mg/L	50uL	1.000	*****		ICAL_TC_LOW.2023.12.17.19.30.27.cal	12/29/2023 6:30:51 PM

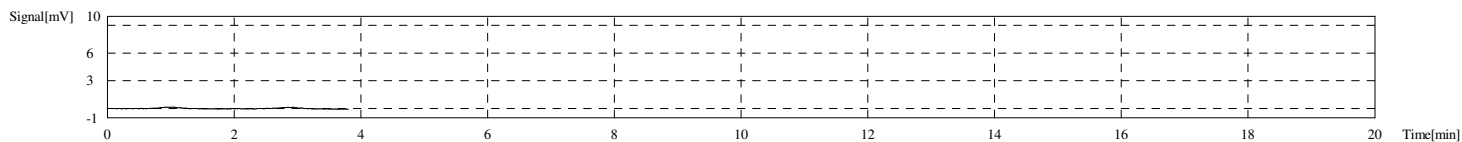
Mean Area 0.5518
 Mean Conc. 0.1854mg/L
 SD Area 0.05791
 SD Conc 0.02035
 Vial 0



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Cal. Curve	Date / Time
I	0.3406	0.1068mg/L	50ul	1.000	*****		ICAL_IC_LOW.2023_11_30_11_23_08.cal	12/29/2023 6:34:55 PM
E	0.3954	0.1240mg/L	50ul	1.000	*****		ICAL_IC_LOW.2023_11_30_11_23_08.cal	12/29/2023 6:37:07 PM

Mean Area 0.3680
 Mean Conc. 0.1154mg/L
 SD Area 0.03875
 SD Conc 0.01215
 Vial 0





Instrument Run Logs

	Type	Analysis	Sample Name	Sample ID	Manual	Result	Comment	Status	Date / Time	Vial
1	Unknown	TOC	Rinse (5)		1.000	TOC:0.000mg/L TC:0.000mg/L IC:0.000mg/L		Complete	10/17/2023 12:26:39 AM	0
2	Standard	TC	ICAL, S19030	ICAL_TC_LOW	1.000			Complete	10/17/2023 1:38:21 AM	25, 25, 25, 25,
3	Unknown	TOC	Rinse (5)		1.000	TOC:0.000mg/L TC:0.000mg/L IC:0.000mg/L		Complete	10/17/2023 2:03:13 AM	0
4	Standard	IC	ICAL, S17684	ICAL_IC_LOW	1.000			Complete	10/17/2023 3:12:33 AM	26, 26, 26, 26,
5	Unknown	TOC	Rinse (5)		1.000	TOC:0.000mg/L TC:0.000mg/L IC:0.000mg/L		Complete	10/17/2023 3:37:30 AM	0
6	Control	TC	xiCV, S	ICV_TC 5 ppm	1.000	TC:5.084mg/L	Method Development of 5 ppm CCV	Complete	10/17/2023 11:08:47 AM	61
7	Control	IC	xiCV, S	ICV_TC 5 ppm	1.000	IC:5.511mg/L	Method Development of 5 ppm CCV	Complete	10/17/2023 11:17:14 AM	62
8	Unknown	TOC	xiCV, S	ICV_HIGH 50 ppm TOC+IC	1.000	TOC:0.000mg/L TC:0.000mg/L IC:0.000mg/L	No high cali curve created yet for high	Complete	10/17/2023 11:32:35 AM	63
9	Unknown	TOC	CCB		1.000	TOC:0.1554mg/L TC:0.2209mg/L IC:0.06546mg/L		Complete	10/17/2023 11:51:40 AM	0
10	Unknown	TOC	ICV 10 ppm TC		1.000	TOC:9.517mg/L TC:9.705mg/L IC:0.1873mg/L		Complete	10/17/2023 1:56:03 PM	35
11	Unknown	TOC	ICV 5 ppm IC		1.000	TOC:4.456mg/L TC:9.524mg/L IC:5.068mg/L	Method Development of 5 ppm CCV	Complete	10/17/2023 2:22:22 PM	36
12	Unknown	TOC	Rinse (5)		1.000	TOC:0.03837mg/L TC:0.2308mg/L IC:0.1925mg/L		Complete	10/17/2023 2:47:44 PM	0
13	Standard	TC	ICAL, S19030	ICAL_TC_HIGH	1.000			Complete	10/17/2023 4:01:05 PM	20, 20, 20, 20,
14	Unknown	TOC	Rinse (3)		1.000	TOC:0.1662mg/L TC:0.3012mg/L IC:0.1349mg/L		Complete	10/17/2023 4:18:36 PM	0
15	Standard	IC	ICAL, S17684	ICAL_IC_HIGH	1.000			Complete	10/17/2023 5:22:05 PM	21, 21, 21, 21,
16	Unknown	TOC	Rinse (3)		1.000	TOC:-0.9073mg/L TC:0.3683mg/L IC:1.276mg/L		Complete	10/17/2023 5:39:21 PM	0

17Oct2023 Calibration Sequence

	Type	Analysis	Sample Name	Sample ID	Manual Dilution	Result	Notes	Comment	Status	Date / Time	Vial
1	Control	TC	ICV, S18937, 100	ICV_TC_10 ppm	1.000	TC:9.775mg/L	Control value: 9.775 / Control exceeds range!	Control 'exceeds' range is bc the parameter was mistakenly setup as 5 ppm; Control	Completed	10/17/2023 6:52:02 PM	61
2	Control	IC	ICV, S19062, 100	ICV_IC_10 ppm	1.000	IC:10.44mg/L	Control value: 10.44 / Control exceeds range!	Control 'exceeds' range is bc the parameter was mistakenly setup as 5 ppm; Control	Completed	10/17/2023 7:00:33 PM	62
3	Unknown	TOC	ICV, S18937,40,S19062,40	ICV_HIGH_5	1.000	TOC:22.16mg/L TC:47.03mg/L IC:24.87mg/L			Complete	10/17/2023 7:18:53 PM	63
4	Unknown	TOC	ICB	ICB	1.000	TOC:0.1044mg/L TC:0.2427mg/L IC:0.1384mg/L			Complete	10/17/2023 7:38:57 PM	0
5	Unknown	TOC	BLANK, QC1100584,324540	pH<2	1.000	TOC:0.1055mg/L TC:0.3395mg/L IC:0.2340mg/L			Complete	10/17/2023 7:55:38 PM	1
6	Unknown	TOC	LCS, QC1100585,324540, S18937, S19062, 40x, 40x		1.000	TOC:21.28mg/L TC:46.39mg/L IC:25.11mg/L			Complete	10/17/2023 8:16:20 PM	2
7	Unknown	TOC	MSS,493745-001,324540		1.000	TOC:5.164mg/L TC:29.65mg/L IC:24.49mg/L			Complete	10/17/2023 8:35:25 PM	3
8	Unknown	TOC	MS, QC1100586,324540, S18937, S19062, 40x, 40x		1.000	TOC:29.89mg/L TC:59.95mg/L IC:30.05mg/L			Complete	10/17/2023 8:51:41 PM	4
9	Unknown	TOC	MSD, QC1100587,324540, S18937, S19062, 40x, 40		1.000	TOC:30.60mg/L TC:58.94mg/L IC:28.34mg/L			Complete	10/17/2023 9:05:32 PM	5
10	Unknown	TOC	493745-003,324540		1.000	TOC:4.944mg/L TC:15.60mg/L IC:10.66mg/L			Complete	10/17/2023 9:27:12 PM	6
11	Unknown	TOC	493912-001,324540		1.000	TOC:1.808mg/L TC:49.58mg/L IC:47.77mg/L			Complete	10/17/2023 9:41:12 PM	7
12	Unknown	TOC	493912-002,324540		1.000	TOC:2.565mg/L TC:57.89mg/L IC:55.32mg/L			Complete	10/17/2023 9:55:24 PM	8
13	Unknown	TOC	493912-003,324540		1.000	TOC:4.324mg/L TC:80.12mg/L IC:75.79mg/L			Complete	10/17/2023 10:12:14 PM	9
14	Control	TC	CCV, S18937, 100x	ICV_TC_10 ppm	1.000	TC:9.943mg/L	Control value: 9.943 / Control within range!		Complete	10/17/2023 10:27:37 PM	64
15	Control	IC	xCCV, S19062	ICV_IC_10 ppm	1.000	IC:11.38mg/L	Control value: 11.38 / Control exceeds range!	Control 'exceeds' range is bc the parameter wa	Complete	10/17/2023 10:38:20 PM	65
16	Unknown	TOC	xCCV, S18937, S19062	ICV_HIGH_5	1.000	TOC:20.90mg/L TC:44.82mg/L IC:23.93mg/L			Complete	10/17/2023 11:00:43 PM	66
17	Unknown	TC	xCCB	ICB	1.000	TC:0.3073mg/L		TC mode by accident. Rerun in TOC mode	Complete	10/17/2023 11:12:59 PM	0
18	Unknown	TOC	CCB	ICB	1.000	TOC:0.1507mg/L TC:0.3057mg/L IC:0.1549mg/L		TOC mode	Complete	10/17/2023 11:24:31 PM	0
19	Control	IC	CCV, S19062, 100	ICV_IC_10 ppm	1.000	IC:10.66mg/L	Control value: 10.66 / Control within range!		Complete	10/17/2023 11:35:29 PM	62
20	Unknown	TOC	xCCV, S18937, S19062, 20, 20	ICV_HIGH_5	1.000	TOC:23.34mg/L TC:48.22mg/L IC:24.88mg/L		RR passed	Complete	10/17/2023 11:53:17 PM	63
21	Unknown	TOC	CCV, S18937, S19062, 20, 20	ICV_HIGH_5 0 ppm TOC+IC	1.000	TOC:46.43mg/L TC:46.47mg/L IC:0.04167mg/L		Not needed - Wanted to see if removing "Multiple inject" feature would help	Completed	10/18/2023 12:17:27 AM	63
22	Unknown	TOC	493912-004,324540		1.000	TOC:2.587mg/L TC:75.85mg/L IC:73.27mg/L			Complete	10/18/2023 12:41:04 AM	10
23	Unknown	TOC	493912-006,324540		1.000	TOC:-1.718mg/L TC:89.39mg/L IC:91.11mg/L			Complete	10/18/2023 12:59:18 AM	11
24	Unknown	TOC	493912-007,324540		1.000	TOC:-1.806mg/L TC:92.17mg/L IC:93.98mg/L			Complete	10/18/2023 1:20:18 AM	12
25	Unknown	TOC	493975-002,324540		1.000	TOC:36.16mg/L TC:37.62mg/L IC:1.465mg/L			Complete	10/18/2023 1:38:25 AM	13
26	Unknown	TOC	493975-003,324540		1.000	TOC:4.846mg/L TC:67.23mg/L IC:62.38mg/L			Complete	10/18/2023 1:55:54 AM	14
27	Unknown	TOC	493975-004,324540		1.000	TOC:13.73mg/L TC:64.29mg/L IC:50.56mg/L			Complete	10/18/2023 2:09:58 AM	15
28	Unknown	TOC	Software disconnected - rinse sample out		1.000	TOC:0.3521mg/L TC:0.5881mg/L IC:0.2360mg/L			Complete	10/18/2023 10:36:09 AM	0
29	Unknown	TOC	493975-005,324540		1.000	TOC:1.739mg/L TC:54.44mg/L IC:52.70mg/L			Complete	10/18/2023 10:53:24 AM	16
30	Unknown	TOC	493975-006,324540		1.000	TOC:0.4638mg/L TC:79.38mg/L IC:78.92mg/L			Complete	10/18/2023 11:14:05 AM	17
31	Control	TC	CCV, S18937, 100x	ICV_TC_10 ppm	1.000	TC:9.594mg/L	Control value: 9.594 / Control within range!		Complete	10/18/2023 11:23:01 AM	61
32	Control	IC	CCV, S19062, 100x	ICV_IC_10 ppm	1.000	IC:10.72mg/L	Control value: 10.72 / Control within range!		Complete	10/18/2023 11:33:44 AM	62
33	Unknown	TOC	CCV, S18937, S19062, 20, 20	ICV_HIGH_5	1.000	TOC:-0.01461mg/L TC:0.1356mg/L IC:0.1502mg/L		Ran out of sample in vial	Complete	10/18/2023 11:52:50 AM	63
34	Unknown	TOC	CCB	ICB	1.000	TOC:0.05737mg/L TC:0.2816mg/L IC:0.2242mg/L			Complete	10/18/2023 12:14:49 PM	0
35	Unknown	TOC	CCV, S18937, S19062, 20, 20	ICV_HIGH_5	1.000	TOC:22.44mg/L TC:46.68mg/L IC:24.23mg/L			Complete	10/18/2023 3:25:40 PM	66

17Oct2023 ICV Sequence

	Type	Analysis	Sample Name	Sample ID	Manual	Result	Comment	Status	Date / Time	Vial
1	Unknown	TOC	ICALBLK		1.00	TOC:-0.01387mg/L TC:0.09920mg/L IC:0.1131mg/L		Complete	12/29/2023 3:44:35 PM	0
2	Standard	TC	ICAL, S19120	ICAL_TC_HIGH	1.00			Complete	12/29/2023 5:43:16 PM	55, 55, 55, 55, 55, 55, 55
3	Unknown	TOC	Rinse (3)		1.00	TOC:0.3973mg/L TC:0.5119mg/L IC:0.1146mg/L		Complete	12/29/2023 6:02:31 PM	0
4	Control	TC	ICV,S18937,20X	CCV_TC_50 ppm	1.00	TC:48.00mg/L		Complete	12/29/2023 6:21:57 PM	61
5	Unknown	TOC	ICB	CCB	1.00	TOC:0.07003mg/L TC:0.1854mg/L IC:0.1154mg/L		Complete	12/29/2023 6:37:07 PM	0

29Dec2023 Calibration-High



Initial and Continuing Calibration Verification Summary

ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 50 PPM	IDF: 1.0
Seqnum: 264076808002	File: 202402220808002	Time: 22-FEB-2024 09:59

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.1600	50.00	52.34	mg/L	5	10	

EPL reviewed 02/23/24 09:05

MCP reviewed 02/23/24 12:50

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264076808003	File: 202402220808003	Time: 22-FEB-2024 10:09

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3940	50.00	54.77	mg/L	10	10	

EPL reviewed 02/23/24 09:05

MCP reviewed 02/23/24 12:50

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264076808004	File: 202402220808004	Time: 22-FEB-2024 10:19

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9960	10.00	10.52	mg/L	5	10	

EPL reviewed 02/23/24 09:05

MCP reviewed 02/23/24 12:50

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264076808005	File: 202402220808005	Time: 22-FEB-2024 10:31

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.3780	10.00	10.50	mg/L	5	10	

EPL reviewed 02/23/24 09:06

MCP reviewed 02/23/24 12:50

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC 50 PPM	IDF: 1.0
Seqnum: 264076808012	File: 202402220808012	Time: 22-FEB-2024 12:10

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.2040	50.00	53.07	mg/L	6	10	

EPL reviewed 02/23/24 09:06

MCP reviewed 02/23/24 12:53

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264076808014	File: 202402220808014	Time: 22-FEB-2024 12:43

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.1360	50.00	50.59	mg/L	1	10	

EPL reviewed 02/23/24 09:07

MCP reviewed 02/23/24 12:53

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264076808015	File: 202402220808015	Time: 22-FEB-2024 12:54

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9865	10.00	10.49	mg/L	5	10	

EPL reviewed 02/23/24 09:07

MCP reviewed 02/23/24 12:53

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264076808016	File: 202402220808016	Time: 22-FEB-2024 13:09

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.4175	10.00	10.62	mg/L	6	10	

EPL reviewed 02/23/24 09:07

MCP reviewed 02/23/24 12:54

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 50 PPM	IDF: 1.0
Seqnum: 264076808028	File: 202402220808028	Time: 22-FEB-2024 15:51

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.1260	50.00	51.77	mg/L	4	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:54

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264076808029	File: 202402220808029	Time: 22-FEB-2024 16:06

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.1690	50.00	51.13	mg/L	2	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:54

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264076808030	File: 202402220808030	Time: 22-FEB-2024 16:17

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9805	10.00	10.47	mg/L	5	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:54

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264076808032	File: 202402220808032	Time: 22-FEB-2024 18:02

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.2230	10.00	10.01	mg/L	0	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:54

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC_50 PPM	IDF: 1.0
Seqnum: 264076808044	File: 202402220808044	Time: 22-FEB-2024 20:58

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.1770	50.00	52.62	mg/L	5	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:55

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264076808045	File: 202402220808045	Time: 22-FEB-2024 21:09

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3340	50.00	53.80	mg/L	8	10	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:55

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B

Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264076808046	File: 202402220808046	Time: 22-FEB-2024 21:20

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	2.9825	10.00	10.47	mg/L	5	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:55

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264076808047	File: 202402220808047	Time: 22-FEB-2024 21:32

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.2050	10.00	9.953	mg/L	0	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:55

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 50 PPM	IDF: 1.0
Seqnum: 264076808050	File: 202402220808050	Time: 22-FEB-2024 22:19

Standards: [S19972](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	H	3.0660	50.00	50.78	mg/L	2	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:56

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_50 PPM	IDF: 1.0
Seqnum: 264076808051	File: 202402220808051	Time: 22-FEB-2024 22:33

Standards: [S19305](#) (20X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	H	3.3460	50.00	53.99	mg/L	8	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:56

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_TC 10 PPM	IDF: 1.0
Seqnum: 264076808052	File: 202402220808052	Time: 22-FEB-2024 22:45

Standards: [S19972](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Carbon	L	3.0535	10.00	10.72	mg/L	7	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:56

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ENTHALPY CONTINUING CALIBRATION FOR SM 5310B


Inst: CHEM-TOC01	Run Name: CCV_IC_10 PPM	IDF: 1.0
Seqnum: 264076808053	File: 202402220808053	Time: 22-FEB-2024 22:54

Standards: [S19305](#) (100X)

Analyte	Ch	Run RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Total Inorganic Carbon	L	3.2180	10.00	9.994	mg/L	0	10	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:56

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ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264076808006	File: 202402220808006
	Time: 22-FEB-2024 10:37

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.4716	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/23/24 09:06

MCP reviewed 02/23/24 12:51

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 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264076808017	File: 202402220808017
	Time: 22-FEB-2024 13:15

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.4394	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/23/24 09:07

MCP reviewed 02/23/24 12:54

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 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264076808033	File: 202402220808033
	Time: 22-FEB-2024 18:08

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.4319	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/23/24 09:08

MCP reviewed 02/23/24 12:54

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ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264076808048	File: 202402220808048
	Time: 22-FEB-2024 21:38

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.4719	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:55

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 Sort: Default

ENTHALPY INSTRUMENT BLANK FOR SM 5310B

Inst: CHEM-TOC01	IDF: 1.0
Seqnum: 264076808054	File: 202402220808054
	Time: 22-FEB-2024 23:00

Analyte	Ch	Quant	IQL	Units	Flags
Total Carbon	L	0.4299	0.3000	mg/L	
Total Inorganic Carbon	L	ND	0.3000	mg/L	
Total Organic Carbon	P	ND	0.3000	mg/L	

EPL reviewed 02/23/24 09:09

MCP reviewed 02/23/24 12:56

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 Sort: Default



Raw Data

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:52.34mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.27	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity
		Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 52.34 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity	Rem.: *****	SD Area: 0.4243
Catalyst\CCV_TC_50 ppm.tpl		
Spl. No.: 1	Vial: 61	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	157.7	52.24	2/22/2024 9:59:36 AM	1
TC	158.3	52.44	2/22/2024 10:03:34 AM	2

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:54.77mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.67	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 54.77 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl	Rem.: *****	SD Area: 1.131
Spl. No.: 1	Vial: 62	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	168.9	54.51	2/22/2024 10:09:49 AM	1
IC	170.5	55.03	2/22/2024 10:12:13 AM	2

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.52mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.66	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\CAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.52 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.1980	Spl. No.: 1
Vial: 63		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.87	10.84	2/22/2024 10:19:30 AM	1	1
TC	30.10	10.57	2/22/2024 10:22:39 AM	0	2
TC	29.82	10.47	2/22/2024 10:25:40 AM	0	3

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.50mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.08	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.50 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.02828
Spl. No.: 1	Vial: 64	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	33.76	10.49	2/22/2024 10:31:38 AM	1
IC	33.80	10.50	2/22/2024 10:33:58 AM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:53.07mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.88	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 53.07 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl	Rem.: *****	SD Area: 1.414
Spl. No.: 1	Vial: 61	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	161.2	53.40	2/22/2024 12:10:14 PM	1
TC	159.2	52.73	2/22/2024 12:14:47 PM	2

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:50.59mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.18	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 50.59 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 0.2828	Spl. No.: 1
Vial: 62		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	156.6	50.53	2/22/2024 12:43:12 PM	0	1
IC	160.5	51.79	2/22/2024 12:45:38 PM	1	2
IC	157.0	50.66	2/22/2024 12:47:58 PM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.49mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.17	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\CAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.49 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.04950	Spl. No.: 1
Vial: 63		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	30.39	10.67	2/22/2024 12:54:42 PM	1	1
TC	29.90	10.50	2/22/2024 12:57:50 PM	0	2
TC	29.31	10.29	2/22/2024 1:00:44 PM	1	3
TC	29.83	10.48	2/22/2024 1:03:41 PM	0	4

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.62mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.31	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.62 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.1061
Spl. No.: 1	Vial: 64	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	34.25	10.64	2/22/2024 1:09:38 PM	1
IC	34.10	10.60	2/22/2024 1:11:54 PM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:51.77mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.18	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Inj. Vol.: 50	Notes: Control value: 51.77 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl
Rem.: *****	SD Area: 0.2828	Spl. No.: 1
Vial: 61		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	161.2	53.40	2/22/2024 3:51:30 PM	1	1
TC	156.1	51.71	2/22/2024 3:55:50 PM	0	2
TC	156.5	51.84	2/22/2024 3:59:51 PM	0	3

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:51.13mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.13	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\CAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 51.13 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 0.2121	Spl. No.: 1
Vial: 62		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	161.4	52.08	2/22/2024 4:06:08 PM	1	1
IC	158.3	51.08	2/22/2024 4:08:31 PM	0	2
IC	158.6	51.18	2/22/2024 4:10:56 PM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.47mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.07	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity
		Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.47 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity	Rem.: *****	SD Area: 0.02121
Catalyst\CCV_TC_10 ppm.tpl		
Spl. No.: 1	Vial: 63	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	29.79	10.46	2/22/2024 4:17:29 PM	1
TC	29.82	10.47	2/22/2024 4:20:36 PM	2

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:10.01mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.26	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.01 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.08485
Spl. No.: 1	Vial: 64	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	32.17	9.991	2/22/2024 6:02:13 PM	1
IC	32.29	10.03	2/22/2024 6:04:36 PM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:52.62mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.67	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 52.62 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl	Rem.: *****	SD Area: 1.061
Spl. No.: 1	Vial: 65	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	159.6	52.87	2/22/2024 8:58:28 PM	1
TC	158.1	52.37	2/22/2024 9:02:50 PM	2

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:53.80mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.93	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 53.80 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 1.556	Spl. No.: 1
Vial: 66		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	170.6	55.06	2/22/2024 9:09:07 PM	1	1
IC	167.8	54.16	2/22/2024 9:11:32 PM	0	2
IC	165.6	53.44	2/22/2024 9:13:52 PM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.47mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.26	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Inj. Vol.: 50	Notes: Control value: 10.47 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl
Rem.: *****	SD Area: 0.07778	Spl. No.: 1
Vial: 67		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
TC	31.18	10.95	2/22/2024 9:20:40 PM	1	1
TC	29.88	10.49	2/22/2024 9:23:50 PM	0	2
TC	29.77	10.45	2/22/2024 9:26:43 PM	0	3

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:9.953mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.40	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 9.953 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.1273
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	32.14	9.981	2/22/2024 9:32:47 PM	1
IC	31.96	9.925	2/22/2024 9:35:06 PM	2

TOCControlL Export

Sample Name: CCV,S19972,20X	Type: Control
Sample ID: CCV_TC_50 ppm	Manual Dilution: 1.00
Result: TC:50.78mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.46	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_HIGH.2023_12_29_15_44_35.cal
Inj. Vol.: 50	Notes: Control value: 50.78 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_50 ppm.tpl
SD Area: 0.7071	Spl. No.: 1	Vial: 65

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Rem.
TC	159.8	52.93	2/22/2024 10:19:01 PM	1	1	T*****
TC	153.8	50.95	2/22/2024 10:23:18 PM	0	2	*****
TC	152.8	50.61	2/22/2024 10:27:20 PM	0	3	*****

TOCControlL Export

Sample Name: CCV,S19305,20X	Type: Control
Sample ID: CCV_IC_50 ppm	Manual Dilution: 1.00
Result: IC:53.99mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.51	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_HIGH.2023_10_17_16_18_37.cal
Inj. Vol.: 50	Notes: Control value: 53.99 / Control within range!	Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_50 ppm.tpl
Rem.: *****	SD Area: 0.8485	Spl. No.: 1
Vial: 66		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.
IC	171.2	55.26	2/22/2024 10:33:38 PM	1	1
IC	167.9	54.19	2/22/2024 10:36:05 PM	0	2
IC	166.7	53.80	2/22/2024 10:38:25 PM	0	3

TOCControlL Export

Sample Name: CCV,S19972,100X	Type: Control
Sample ID: CCV_TC_10 ppm	Manual Dilution: 1.00
Result: TC:10.72mg/L	Auto. Dil.: 1.000

Anal.: TC	CV Area: 0.67	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 10.72 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_TC_10 ppm.tpl	Rem.: *****	SD Area: 0.2051
Spl. No.: 1	Vial: 67	

Analysis	Area	Conc.	Date / Time	Inj. No.
TC	30.68	10.77	2/22/2024 10:45:09 PM	1
TC	30.39	10.67	2/22/2024 10:48:34 PM	2

TOCControlL Export

Sample Name: CCV,S19305,100X	Type: Control
Sample ID: CCV_IC_10 ppm	Manual Dilution: 1.00
Result: IC:9.994mg/L	Auto. Dil.: 1.000

Anal.: IC	CV Area: 0.18	Cal. Curve: C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal
Excluded: 0	Inj. Vol.: 50	Notes: Control value: 9.994 / Control within range!
Origin: C:\TOC-L\Templates\High Sensitivity Catalyst\CCV_IC_10 ppm.tpl	Rem.: *****	SD Area: 0.05657
Spl. No.: 1	Vial: 68	

Analysis	Area	Conc.	Date / Time	Inj. No.
IC	32.14	9.981	2/22/2024 10:54:31 PM	1
IC	32.22	10.01	2/22/2024 10:56:51 PM	2

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.2647mg/L TC:0.4716mg/L IC:0.2069mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.407	0.4860	2/22/2024 10:37:52 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.24	0.05798
TC	1.325	0.4572	2/22/2024 10:40:03 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.24	0.05798
IC	0.6951	0.2180	2/22/2024 10:42:35 AM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.60	0.05013
IC	0.6242	0.1958	2/22/2024 10:44:42 AM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	7.60	0.05013

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.2303mg/L TC:0.4394mg/L IC:0.2092mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.330	0.4589	2/22/2024 1:15:53 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	6.16	0.07849
TC	1.219	0.4199	2/22/2024 1:18:07 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	6.16	0.07849
IC	0.6408	0.2010	2/22/2024 1:20:39 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	5.56	0.03705
IC	0.6932	0.2174	2/22/2024 1:22:47 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	5.56	0.03705

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.2355mg/L TC:0.4319mg/L IC:0.1964mg/L	Auto. Dil.: 1.000

Anal.: TOC	Excluded: 0	Inj. Vol.: 50
Notes:	Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****
Spl. No.: 1	Vial: 0	

Analysis	Area	Conc.	Date / Time	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.308	0.4512	2/22/2024 6:08:29 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	6.21	0.07778
TC	1.198	0.4125	2/22/2024 6:10:37 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	6.21	0.07778
IC	0.6259	0.1963	2/22/2024 6:13:09 PM	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.08	0.00049
IC	0.6266	0.1965	2/22/2024 6:15:17 PM	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	0.08	0.00049

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.2298mg/L TC:0.4719mg/L IC:0.2421mg/L	Auto. Dil.: 1.000

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****	Spl. No.: 1
Vial: 0		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.328	0.4582	2/22/2024 9:38:56 PM	0	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.03	0.05515
TC	1.145	0.3939	2/22/2024 9:41:06 PM	1	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.03	0.05515
TC	1.406	0.4857	2/22/2024 9:43:20 PM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	4.03	0.05515
IC	0.7622	0.2390	2/22/2024 9:45:51 PM	0	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	1.81	0.01400
IC	0.7820	0.2453	2/22/2024 9:47:58 PM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	1.81	0.01400

TOCControlL Export

Sample Name: CCB	Type: Unknown
Sample ID:	Manual Dilution: 1.00
Result: TOC:0.2318mg/L TC:0.4299mg/L IC:0.1982mg/L	Auto. Dil.: 1.000

Anal.: TOC	Inj. Vol.: 50	Notes:
Origin: C:\TOC-L\Methods\High Sensitivity Catalyst\CCB.met	Rem.: *****	Spl. No.: 1
Vial: 0		

Analysis	Area	Conc.	Date / Time	Excluded	Inj. No.	Cal. Curve	CV Area	SD Area
TC	1.392	0.4807	2/22/2024 11:00:49 PM	1	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.40	0.00495
TC	1.244	0.4287	2/22/2024 11:03:01 PM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.40	0.00495
TC	1.251	0.4312	2/22/2024 11:05:10 PM	0	3	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_TC_LOW.2023_12_17_19_30_27.cal	0.40	0.00495
IC	0.6180	0.1938	2/22/2024 11:07:41 PM	0	1	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	3.10	0.01959
IC	0.6457	0.2025	2/22/2024 11:09:49 PM	0	2	C:\TOC-L\CalCurves\High Sensitivity Catalyst\ICAL_IC_LOW.2023_11_30_11_23_08.cal	3.10	0.01959

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30121866

ASSET Laboratories Work Order:

N062966

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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ASSET Laboratories Work Order: N062966

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February 22, 2024

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: (916) 786-3302
FAX:

Workorder No.: N062966

RE: PG&E Topock - PCM, 30121866

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 07, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062966

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for samples N062966-003 and -009 due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (19 ug/L) and hexavalent chromium (15 ug/L) for sample N062966-016 (MW-918-Q124) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (5.4 ug/L) and hexavalent chromium (3.6 ug/L) for sample N062966-019 (MW-80-082-Q124) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (5.4 ug/L) and hexavalent chromium (3.5 ug/L) for sample N062966-020 (MW-919-Q124) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of sample upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (19 ug/L) and hexavalent chromium (15 ug/L) for



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062966

CASE NARRATIVE

sample N062966-016 (MW-918-Q124) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 18 and 17 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (5.4 ug/L) and hexavalent chromium (3.6 ug/L) for sample N062966-019 (MW-80-082-Q124) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 5.2 and 4.8 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (5.4 ug/L) and hexavalent chromium (3.5 ug/L) for sample N062966-020 (MW-919-Q124) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 5.2 and 4.8 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Analytical Comments for EPA 6010B:

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Iron in QC samples N062966-017CMS and N062966-017CMSD possibly due to matrix interference; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N062966-001CMS and N062966-001CMSD possibly due to matrix interference. Post Spike passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Manganese in QC samples NN062966-001CMS and N062966-001CMSD possibly due to matrix interference; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



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Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062966
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062966-001A	MW-34-055-Q124	Groundwater	2/7/2024 10:22:00 AM	2/7/2024	2/22/2024
N062966-001B	MW-34-055-Q124	Groundwater	2/7/2024 10:22:00 AM	2/7/2024	2/22/2024
N062966-001C	MW-34-055-Q124	Groundwater	2/7/2024 10:22:00 AM	2/7/2024	2/22/2024
N062966-002A	MW-34-055-EB-Q124	Groundwater	2/7/2024 10:02:00 AM	2/7/2024	2/22/2024
N062966-003A	MW-34-080-Q124	Groundwater	2/7/2024 9:49:00 AM	2/7/2024	2/22/2024
N062966-003B	MW-34-080-Q124	Groundwater	2/7/2024 9:49:00 AM	2/7/2024	2/22/2024
N062966-003C	MW-34-080-Q124	Groundwater	2/7/2024 9:49:00 AM	2/7/2024	2/22/2024
N062966-004A	MW-34-080-EB-Q124	Groundwater	2/7/2024 9:30:00 AM	2/7/2024	2/22/2024
N062966-005A	MW-34-100-Q124	Groundwater	2/7/2024 9:18:00 AM	2/7/2024	2/22/2024
N062966-005B	MW-34-100-Q124	Groundwater	2/7/2024 9:18:00 AM	2/7/2024	2/22/2024
N062966-005C	MW-34-100-Q124	Groundwater	2/7/2024 9:18:00 AM	2/7/2024	2/22/2024
N062966-006A	MW-44-070-Q124	Groundwater	2/7/2024 1:03:00 PM	2/7/2024	2/22/2024
N062966-006B	MW-44-070-Q124	Groundwater	2/7/2024 1:03:00 PM	2/7/2024	2/22/2024
N062966-006C	MW-44-070-Q124	Groundwater	2/7/2024 1:03:00 PM	2/7/2024	2/22/2024
N062966-007A	MW-44-070-EB-Q124	Groundwater	2/7/2024 12:42:00 PM	2/7/2024	2/22/2024
N062966-008A	MW-44-115-Q124	Groundwater	2/7/2024 11:59:00 AM	2/7/2024	2/22/2024
N062966-008B	MW-44-115-Q124	Groundwater	2/7/2024 11:59:00 AM	2/7/2024	2/22/2024
N062966-008C	MW-44-115-Q124	Groundwater	2/7/2024 11:59:00 AM	2/7/2024	2/22/2024
N062966-009A	MW-44-125-Q124	Groundwater	2/7/2024 12:36:00 PM	2/7/2024	2/22/2024
N062966-009B	MW-44-125-Q124	Groundwater	2/7/2024 12:36:00 PM	2/7/2024	2/22/2024
N062966-009C	MW-44-125-Q124	Groundwater	2/7/2024 12:36:00 PM	2/7/2024	2/22/2024
N062966-010A	MW-45-095a-Q124	Groundwater	2/7/2024 11:20:00 AM	2/7/2024	2/22/2024
N062966-010B	MW-45-095a-Q124	Groundwater	2/7/2024 11:20:00 AM	2/7/2024	2/22/2024
N062966-010C	MW-45-095a-Q124	Groundwater	2/7/2024 11:20:00 AM	2/7/2024	2/22/2024
N062966-011A	EB-713-Q124	Groundwater	2/7/2024 1:10:00 PM	2/7/2024	2/22/2024
N062966-012A	MW-78-070-Q124	Groundwater	2/7/2024 9:00:00 AM	2/7/2024	2/22/2024
N062966-012B	MW-78-070-Q124	Groundwater	2/7/2024 9:00:00 AM	2/7/2024	2/22/2024
N062966-012C	MW-78-070-Q124	Groundwater	2/7/2024 9:00:00 AM	2/7/2024	2/22/2024
N062966-013A	MW-917-Q124	Groundwater	2/7/2024 9:02:00 AM	2/7/2024	2/22/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30121866
Lab Order: N062966
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N062966-013B	MW-917-Q124	Groundwater	2/7/2024 9:02:00 AM	2/7/2024	2/22/2024
N062966-013C	MW-917-Q124	Groundwater	2/7/2024 9:02:00 AM	2/7/2024	2/22/2024
N062966-014A	MW-78-142-Q124	Groundwater	2/7/2024 9:52:00 AM	2/7/2024	2/22/2024
N062966-014B	MW-78-142-Q124	Groundwater	2/7/2024 9:52:00 AM	2/7/2024	2/22/2024
N062966-014C	MW-78-142-Q124	Groundwater	2/7/2024 9:52:00 AM	2/7/2024	2/22/2024
N062966-015A	MW-79-058-Q124	Groundwater	2/7/2024 10:49:00 AM	2/7/2024	2/22/2024
N062966-015B	MW-79-058-Q124	Groundwater	2/7/2024 10:49:00 AM	2/7/2024	2/22/2024
N062966-015C	MW-79-058-Q124	Groundwater	2/7/2024 10:49:00 AM	2/7/2024	2/22/2024
N062966-016A	MW-918-Q124	Groundwater	2/7/2024 10:51:00 AM	2/7/2024	2/22/2024
N062966-016B	MW-918-Q124	Groundwater	2/7/2024 10:51:00 AM	2/7/2024	2/22/2024
N062966-016C	MW-918-Q124	Groundwater	2/7/2024 10:51:00 AM	2/7/2024	2/22/2024
N062966-017A	MW-79-102-Q124	Groundwater	2/7/2024 11:26:00 AM	2/7/2024	2/22/2024
N062966-017B	MW-79-102-Q124	Groundwater	2/7/2024 11:26:00 AM	2/7/2024	2/22/2024
N062966-017C	MW-79-102-Q124	Groundwater	2/7/2024 11:26:00 AM	2/7/2024	2/22/2024
N062966-018A	MW-80-057-Q124	Groundwater	2/7/2024 12:25:00 PM	2/7/2024	2/22/2024
N062966-018B	MW-80-057-Q124	Groundwater	2/7/2024 12:25:00 PM	2/7/2024	2/22/2024
N062966-018C	MW-80-057-Q124	Groundwater	2/7/2024 12:25:00 PM	2/7/2024	2/22/2024
N062966-019A	MW-80-082-Q124	Groundwater	2/7/2024 12:56:00 PM	2/7/2024	2/22/2024
N062966-019B	MW-80-082-Q124	Groundwater	2/7/2024 12:56:00 PM	2/7/2024	2/22/2024
N062966-019C	MW-80-082-Q124	Groundwater	2/7/2024 12:56:00 PM	2/7/2024	2/22/2024
N062966-020A	MW-919-Q124	Groundwater	2/7/2024 12:59:00 PM	2/7/2024	2/22/2024
N062966-020B	MW-919-Q124	Groundwater	2/7/2024 12:59:00 PM	2/7/2024	2/22/2024
N062966-020C	MW-919-Q124	Groundwater	2/7/2024 12:59:00 PM	2/7/2024	2/22/2024
N062966-021A	EB-714-Q124	Groundwater	2/7/2024 1:50:00 PM	2/7/2024	2/22/2024



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-001

Client Sample ID: MW-34-055-Q124
Collection Date: 2/7/2024 10:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/8/2024 10:28 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-002

Client Sample ID: MW-34-055-EB-Q124
Collection Date: 2/7/2024 10:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/8/2024 06:17 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-003

Client Sample ID: MW-34-080-Q124
Collection Date: 2/7/2024 9:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240212A	QC Batch: R181444			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	2/12/2024 03:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California Client Sample ID: MW-34-080-EB-Q124
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866 Collection Date: 2/7/2024 9:30:00 AM
Lab ID: N062966-004 Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A QC Batch: R181355 PrepDate: Analyst: RAB
Hexavalent Chromium ND 0.039 0.20 µg/L 1 2/8/2024 06:36 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-005

Client Sample ID: MW-34-100-Q124
Collection Date: 2/7/2024 9:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	12	0.19	1.0		µg/L	5	2/8/2024 01:56 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-006

Client Sample ID: MW-44-070-Q124
Collection Date: 2/7/2024 1:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	2/8/2024 03:08 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-007

Client Sample ID: MW-44-070-EB-Q124
Collection Date: 2/7/2024 12:42:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/8/2024 06:55 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-008

Client Sample ID: MW-44-115-Q124
Collection Date: 2/7/2024 11:59:00 AM
Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A QC Batch: R181355 PrepDate: Analyst: RAB
Hexavalent Chromium 25 0.19 1.0 ug/L 5 2/8/2024 01:18 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-009

Client Sample ID: MW-44-125-Q124
Collection Date: 2/7/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	2/8/2024 05:39 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-010

Client Sample ID: MW-45-095a-Q124
Collection Date: 2/7/2024 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/8/2024 03:27 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-011

Client Sample ID: EB-713-Q124
Collection Date: 2/7/2024 1:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	2/8/2024 07:17 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-012

Client Sample ID: MW-78-070-Q124
Collection Date: 2/7/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	0.35	0.039	0.20		µg/L	1	2/8/2024 03:46 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	ND	0.035	1.0		µg/L	1	2/9/2024 12:44 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-013

Client Sample ID: MW-917-Q124
Collection Date: 2/7/2024 9:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	0.36	0.039	0.20		µg/L	1	2/8/2024 04:23 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	ND	0.035	1.0		µg/L	1	2/9/2024 12:48 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-014

Client Sample ID: MW-78-142-Q124
Collection Date: 2/7/2024 9:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	510	3.9	20		µg/L	100	2/8/2024 11:27 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240209D	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	520	0.35	10		µg/L	10	2/9/2024 04:35 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-015

Client Sample ID: MW-79-058-Q124
Collection Date: 2/7/2024 10:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	16	0.19	1.0		µg/L	5	2/8/2024 01:37 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	19	0.035	1.0		µg/L	1	2/9/2024 01:11 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-016

Client Sample ID: MW-918-Q124
Collection Date: 2/7/2024 10:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	15	0.19	1.0		µg/L	5	2/8/2024 02:29 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	19	0.035	1.0		µg/L	1	2/9/2024 01:16 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-017

Client Sample ID: MW-79-102-Q124
Collection Date: 2/7/2024 11:26:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	190	1.9	10		µg/L	50	2/8/2024 10:59 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240209D	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	230	0.35	10		µg/L	10	2/9/2024 04:40 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-018

Client Sample ID: MW-80-057-Q124
Collection Date: 2/7/2024 12:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355						Analyst: RAB
Hexavalent Chromium	23	0.19	1.0		µg/L	5	2/8/2024 08:14 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696					2/8/2024	Analyst: DJ
Chromium	27	0.035	1.0		µg/L	1	2/9/2024 01:44 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-019

Client Sample ID: MW-80-082-Q124
Collection Date: 2/7/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	3.6	0.039	0.20		µg/L	1	2/8/2024 04:42 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	5.4	0.035	1.0		µg/L	1	2/9/2024 01:49 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-020

Client Sample ID: MW-919-Q124
Collection Date: 2/7/2024 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240208A	QC Batch: R181355				PrepDate:		Analyst: RAB
Hexavalent Chromium	3.5	0.039	0.20		µg/L	1	2/8/2024 05:01 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_240208F	QC Batch: 106696				PrepDate: 2/8/2024		Analyst: DJ
Chromium	5.4	0.035	1.0		µg/L	1	2/9/2024 01:53 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-021

Client Sample ID: EB-714-Q124
Collection Date: 2/7/2024 1:50:00 PM
Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_240209A QC Batch: R181381 PrepDate: Analyst: RAB
Hexavalent Chromium ND 0.039 0.20 ug/L 1 2/9/2024 10:04 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181355	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355
Client ID: PBW	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681071
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	ND	0.20			

Sample ID: LCS-R181355	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355
Client ID: LCSW	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681072
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.820	0.20	5.000	0	96.4 90 110

Sample ID: N062966-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681074
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.076	0.20	1.000	0	108 90 110

Sample ID: N062966-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681075
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	1.025	0.20	1.000	0	102 90 110 1.076 4.86 20

Sample ID: N062966-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681077
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	447.745	10	250.0	193.8	102 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062966-017AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	434.840	10	250.0	193.8	96.4	90	110	447.7	2.92	20	

Sample ID: N062966-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	996.230	20	500.0	509.4	97.4	90	110				

Sample ID: N062966-014ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	523.680	20						509.4	2.77	20	

Sample ID: N062966-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	47.888	1.0	25.00	24.71	92.7	90	110				

Sample ID: N062966-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.951	1.0	25.00	15.95	96.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062966-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.551	1.0	25.00	14.67	99.5	90	110				

Sample ID: N062966-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.982	0.20	1.000	0	98.2	90	110				

Sample ID: N062966-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681096						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.083	0.20	1.000	0	108	90	110				

Sample ID: N062966-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.384	0.20	1.000	0.3461	104	90	110				

Sample ID: N062966-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.449	0.20	1.000	0.3613	109	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062966-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.602	0.20	1.000	3.608	99.3	90	110				

Sample ID: N062966-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681106						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.504	0.20	1.000	3.507	99.7	90	110				

Sample ID: N062966-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.157	1.0	5.000	0	103	90	110				

Sample ID: N062966-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.046	0.20	1.000	0	105	90	110				

Sample ID: N062966-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.072	0.20	1.000	0	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062966-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681116							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.20	1.000	0	106	90	110				

Sample ID: N062966-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.024	0.20	1.000	0	102	90	110				

Sample ID: N062966-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681119							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	16.780	1.0	5.000	11.78	99.9	90	110				

Sample ID: N062966-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681122							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	47.485	1.0	25.00	23.35	96.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181381	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: PBW	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: LCS-R181381	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: LCSW	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683012						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.809 0.20 5.000 0 96.2 90 110

Sample ID: N062966-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683014						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.084 0.20 1.000 0 108 90 110

Sample ID: N063001-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.153 0.20 1.000 0.1277 102 90 110

Sample ID: N063001-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.166 0.20 1.000 0.1277 104 90 110 1.153 1.16 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063001-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683022						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	45.628	1.0	25.00	21.50	96.5	90	110				

Sample ID: N063001-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.635	0.20	1.000	0.5440	109	90	110				

Sample ID: N063001-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.465	0.20	1.000	0.3932	107	90	110				

Sample ID: N063001-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683032						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.571	0.20	1.000	0.4921	108	90	110				

Sample ID: N063001-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.596	0.20	1.000	1.656	94.1	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063001-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.017	0.20	1.000	0	102	90	110				

Sample ID: N063001-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.092	0.20	1.000	0	109	90	110				

Sample ID: N063001-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.041	0.20	1.000	0	104	90	110				

Sample ID: N063001-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.044	0.20	1.000	0	104	90	110				

Sample ID: N063001-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.022	0.20	1.000	0	102	90	110				

Qualifiers:

- | | | |
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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063001-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.124	0.20	1.000	0.05170	107	90	110				

Sample ID: N063001-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.055	0.20	1.000	0	105	90	110				

Sample ID: N063001-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	36.490	1.0	25.00	11.57	99.7	90	110				

Sample ID: N063001-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	36.691	1.0	25.00	11.91	99.1	90	110				

Sample ID: N063001-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.221	0.20	1.000	0.2115	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063001-008ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683058							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.2115	0	20	

Sample ID: N063001-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683060							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.656	0.20	1.000	0.5899	107	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R181444	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: PBW	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20									
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Sample ID: LCS-R181444	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: LCSW	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.915	0.20	5.000	0	98.3	90	110				
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Sample ID: N063012-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686890						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4758.400	100	2500	2174	103	90	110				
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Sample ID: N063012-004AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4723.900	100	2500	2174	102	90	110	4758	0.728	20	
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Sample ID: N063012-002ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2080.000	100						2160	3.78	20	
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Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063012-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686894						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4629.300	100	2500	2160	98.8	90	110				

Sample ID: N063012-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686898						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.055	0.20	1.000	0	106	90	110				

Sample ID: N063012-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686900						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.979	0.20	1.000	0	97.9	90	110				

Sample ID: N063012-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.946	0.20	1.000	0	94.6	90	110				

Sample ID: N063012-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686904						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	925.920	20	500.0	435.2	98.2	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063001-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686906						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.060	0.20	1.000	0	106	90	110				

Sample ID: N063010-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686910						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.277	0.20	1.000	0.2887	98.8	90	110				

Sample ID: N063010-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.281	0.20	1.000	0.2958	98.5	90	110				

Sample ID: N063010-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686914						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.435	0.20	1.000	0.4431	99.1	90	110				

Sample ID: N063012-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4736.200	100	2500	2231	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N062966-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686918							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.977	1.0	5.000	0	99.5	90	110				

Sample ID: N063001-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686922							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.779	1.0	5.000	0	95.6	90	110				

Sample ID: N063001-022AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686924							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.20	1.000	0	105	90	110				

Sample ID: N063012-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.039	0.20	1.000	0	104	90	110				

Sample ID: N063012-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686928							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.059	0.20	1.000	0	106	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N063012-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686930							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.050	0.20	1.000	0	105	90	110				

Sample ID: N063012-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686934							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.081	0.20	1.000	0	108	90	110				

Sample ID: N063001-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686935							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.788	0.20	1.000	0.8062	98.1	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO15 & TO3)

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-106696	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181373						
Client ID: PBW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5682736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-106696	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181373						
Client ID: LCSW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5682737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.321	1.0	10.00	0	103	85	115				
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Sample ID: N062966-001CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181373						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5682743						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.330	1.0	10.00	0.04861	103	75	125				
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Sample ID: N062966-001CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181373						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5682744						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.285	1.0	10.00	0.04861	102	75	125	10.33	0.441	20	
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Sample ID: N062966-017CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181393						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5684063						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	218.626	10	10.00	206.7	119	75	125				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062966-017CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181393						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5684064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	223.354	10	10.00	206.7	166	75	125	208.8	6.72	20	S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-001

Client Sample ID: MW-34-055-Q124
Collection Date: 2/7/2024 10:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25	mg/L	5	2/8/2024 10:57 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-003

Client Sample ID: MW-34-080-Q124
Collection Date: 2/7/2024 9:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	800	34	50		mg/L	100	2/8/2024 12:13 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 11:49 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-005

Client Sample ID: MW-34-100-Q124
Collection Date: 2/7/2024 9:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	1100	34	50		mg/L	100	2/8/2024 12:28 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 12:53 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-006

Client Sample ID: MW-44-070-Q124
Collection Date: 2/7/2024 1:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.048	0.10	mg/L	2	2/8/2024 01:09 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-008

Client Sample ID: MW-44-115-Q124
Collection Date: 2/7/2024 11:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	980	34	50		mg/L	100	2/8/2024 01:14 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	1.0	0.24	0.50		mg/L	10	2/8/2024 01:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-009

Client Sample ID: MW-44-125-Q124
Collection Date: 2/7/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	920	34	50		mg/L	100	2/8/2024 01:30 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 01:40 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-010

Client Sample ID: MW-45-095a-Q124
Collection Date: 2/7/2024 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327						Analyst: RAB
Sulfate	590	17	25		mg/L	50	2/8/2024 11:27 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 01:56 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-012

Client Sample ID: MW-78-070-Q124
Collection Date: 2/7/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	2/8/2024 01:45 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 02:12 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-013

Client Sample ID: MW-917-Q124
Collection Date: 2/7/2024 9:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	2/8/2024 02:00 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 02:45 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-014

Client Sample ID: MW-78-142-Q124
Collection Date: 2/7/2024 9:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	440	17	25		mg/L	50	2/8/2024 02:16 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	0.73	0.24	0.50		mg/L	10	2/8/2024 06:12 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-015

Client Sample ID: MW-79-058-Q124
Collection Date: 2/7/2024 10:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	370	17	25		mg/L	50	2/8/2024 02:31 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 03:01 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-016

Client Sample ID: MW-918-Q124
Collection Date: 2/7/2024 10:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	370	17	25		mg/L	50	2/8/2024 02:46 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 03:17 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-017

Client Sample ID: MW-79-102-Q124
Collection Date: 2/7/2024 11:26:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	2/8/2024 10:41 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	1.7	0.24	0.50		mg/L	10	2/8/2024 10:07 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-018

Client Sample ID: MW-80-057-Q124
Collection Date: 2/7/2024 12:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	340	17	25		mg/L	50	2/8/2024 03:01 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 04:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-019

Client Sample ID: MW-80-082-Q124
Collection Date: 2/7/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	340	17	25		mg/L	50	2/8/2024 03:17 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	2/8/2024 04:21 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-020

Client Sample ID: MW-919-Q124
Collection Date: 2/7/2024 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_240208A	QC Batch: R181327				PrepDate:		Analyst: RAB
Sulfate	340	17	25		mg/L	50	2/8/2024 03:32 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_240208A	QC Batch: R181338				PrepDate:		Analyst: RAB
Nitrate as N	0.70	0.24	0.50		mg/L	10	2/8/2024 04:37 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: MB-R181327_SO4	SampType: MBLK	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: PBW	Batch ID: R181327	TestNo: EPA 300.0		Analysis Date: 2/8/2024	SeqNo: 5678264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: LCS-R181327_SO4	SampType: LCS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: LCSW	Batch ID: R181327	TestNo: EPA 300.0		Analysis Date: 2/8/2024	SeqNo: 5678265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.073	0.50	4.000	0	102	90	110				

Sample ID: N062966-017BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ZZZZZ	Batch ID: R181327	TestNo: EPA 300.0		Analysis Date: 2/8/2024	SeqNo: 5678267						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	578.580	25	200.0	377.6	100	80	120				

Sample ID: N062966-017BMSD	SampType: MSD	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ZZZZZ	Batch ID: R181327	TestNo: EPA 300.0		Analysis Date: 2/8/2024	SeqNo: 5678268						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	577.775	25	200.0	377.6	100	80	120	578.6	0.139	20	

Sample ID: N062966-010BDUP	SampType: DUP	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ZZZZZ	Batch ID: R181327	TestNo: EPA 300.0		Analysis Date: 2/8/2024	SeqNo: 5678270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	590.580	25						586.5	0.698	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: N062966-010BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ZZZZZZ	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678271							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	793.040	25	200.0	586.5	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062966
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R181338_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: PBW	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679114							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: LCS-R181338_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: LCSW	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.274 0.050 1.250 0 102 90 110

Sample ID: N062966-017BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ZZZZZ	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 13.647 0.50 12.50 1.696 95.6 80 120

Sample ID: N062966-017BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ZZZZZ	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 13.830 0.50 12.50 1.696 97.1 80 120 13.65 1.33 20

Sample ID: N062966-001BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ZZZZZ	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679120							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 6.295 0.25 6.250 0.1360 98.5 80 120

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: N062966-001BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ZZZZZZ	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679121							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	6.196	0.25	6.250	0.1360	97.0	80	120	6.295	1.59	20	

Sample ID: N062966-003BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ZZZZZZ	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679123							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.50						0	0	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-001

Client Sample ID: MW-34-055-Q124
Collection Date: 2/7/2024 10:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	82	13	20	µg/L	1	2/9/2024 12:40 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-003

Client Sample ID: MW-34-080-Q124
Collection Date: 2/7/2024 9:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	250	13	20	µg/L	1	2/9/2024 01:01 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-005

Client Sample ID: MW-34-100-Q124
Collection Date: 2/7/2024 9:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	58	13	20	µg/L	1	2/9/2024 01:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-006

Client Sample ID: MW-44-070-Q124
Collection Date: 2/7/2024 1:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	1000	13	20	µg/L	1	2/9/2024 01:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-008

Client Sample ID: MW-44-115-Q124
Collection Date: 2/7/2024 11:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	49	13	20	µg/L	1	2/9/2024 01:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-009

Client Sample ID: MW-44-125-Q124
Collection Date: 2/7/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	22	13	20	µg/L	1	2/9/2024 01:28 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-010

Client Sample ID: MW-45-095a-Q124
Collection Date: 2/7/2024 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	ND	13	20	µg/L	1	2/9/2024 01:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-012

Client Sample ID: MW-78-070-Q124
Collection Date: 2/7/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	37	13	20	µg/L	1	2/9/2024 01:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-013

Client Sample ID: MW-917-Q124
Collection Date: 2/7/2024 9:02:00 AM
Matrix: GROUNDWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A QC Batch: 106695 PrepDate: 2/8/2024 Analyst: DJ
Iron 30 13 20 µg/L 1 2/9/2024 01:44 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-014

Client Sample ID: MW-78-142-Q124
Collection Date: 2/7/2024 9:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	32	13	20	µg/L	1	2/9/2024 01:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-015

Client Sample ID: MW-79-058-Q124
Collection Date: 2/7/2024 10:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate:	2/8/2024	Analyst: DJ	
Iron	59	13	20		µg/L	1	2/9/2024 01:55 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-016

Client Sample ID: MW-918-Q124
Collection Date: 2/7/2024 10:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

		EPA 3010A		EPA 6010B			
RunID:	NV00922-ICP3_240209A	QC Batch:	106695		PrepDate:	2/8/2024	Analyst: DJ
Iron		60	13	20	µg/L	1	2/9/2024 02:00 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-017

Client Sample ID: MW-79-102-Q124
Collection Date: 2/7/2024 11:26:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: **NV00922-ICP3_240209A** QC Batch: **106695** PrepDate: **2/8/2024** Analyst: **DJ**
Iron 21 13 20 µg/L 1 2/9/2024 02:06 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-018

Client Sample ID: MW-80-057-Q124
Collection Date: 2/7/2024 12:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	58	13	20	µg/L	1	2/9/2024 02:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-019

Client Sample ID: MW-80-082-Q124
Collection Date: 2/7/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	66	13	20	µg/L	1	2/9/2024 02:44 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-020

Client Sample ID: MW-919-Q124
Collection Date: 2/7/2024 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP3_240209A	QC Batch: 106695			PrepDate: 2/8/2024		Analyst: DJ
Iron	53	13	20	µg/L	1	2/9/2024 02:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: MB-106695	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377
Client ID: PBW	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682833
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: LCS-106695	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377
Client ID: LCSW	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682834
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	97.609	20	100.0	0	97.6 85 115

Sample ID: N062966-001CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377
Client ID: ZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682838
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	167.965	20	100.0	82.39	85.6 75 125

Sample ID: N062966-001CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377
Client ID: ZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682839
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	176.326	20	100.0	82.39	93.9 75 125 168.0 4.86 20

Sample ID: N062966-017CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377
Client ID: ZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682858
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	131.383	20	100.0	20.88	111 75 125

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N062966-017CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181377						
Client ID: ZZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	104.834	20	100.0	20.88	84.0	75	125	131.4	22.5	20	R

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682837						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	174.597	20	100.0	82.39	92.2	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5682857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	112.775	20	100.0	20.88	91.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-001

Client Sample ID: MW-34-055-Q124
Collection Date: 2/7/2024 10:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	4.3	0.050	0.10	µg/L	1	2/8/2024 11:39 PM	
Barium	36	0.083	1.0	µg/L	1	2/8/2024 11:39 PM	
Manganese	210	0.26	5.0	µg/L	10	2/9/2024 03:44 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-003

Client Sample ID: MW-34-080-Q124
Collection Date: 2/7/2024 9:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:16 AM	
Barium	38	0.083	1.0	µg/L	1	2/9/2024 12:16 AM	
Manganese	160	0.026	0.50	µg/L	1	2/9/2024 12:16 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-005

Client Sample ID: MW-34-100-Q124
Collection Date: 2/7/2024 9:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:21 AM	
Barium	17	0.083	1.0	µg/L	1	2/9/2024 12:21 AM	
Manganese	36	0.026	0.50	µg/L	1	2/9/2024 12:21 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-006

Client Sample ID: MW-44-070-Q124
Collection Date: 2/7/2024 1:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	3.5	0.050	0.10	µg/L	1	2/9/2024 12:25 AM	
Barium	87	0.083	1.0	µg/L	1	2/9/2024 12:25 AM	
Manganese	440	0.26	5.0	µg/L	10	2/9/2024 04:07 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-008

Client Sample ID: MW-44-115-Q124
Collection Date: 2/7/2024 11:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:30 AM	
Barium	31	0.083	1.0	µg/L	1	2/9/2024 12:30 AM	
Manganese	4.3	0.026	0.50	µg/L	1	2/9/2024 12:30 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-009

Client Sample ID: MW-44-125-Q124
Collection Date: 2/7/2024 12:36:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:34 AM	
Barium	46	0.083	1.0	µg/L	1	2/9/2024 12:34 AM	
Manganese	430	0.26	5.0	µg/L	10	2/9/2024 04:12 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-010

Client Sample ID: MW-45-095a-Q124
Collection Date: 2/7/2024 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:39 AM	
Barium	30	0.083	1.0	µg/L	1	2/9/2024 12:39 AM	
Manganese	59	0.026	0.50	µg/L	1	2/9/2024 12:39 AM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-012

Client Sample ID: MW-78-070-Q124
Collection Date: 2/7/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:44 AM	
Barium	130	0.083	1.0	µg/L	1	2/9/2024 12:44 AM	
Manganese	490	0.26	5.0	µg/L	10	2/9/2024 04:17 PM	
Molybdenum	5.5	0.12	0.50	µg/L	1	2/9/2024 12:44 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 12:44 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-013

Client Sample ID: MW-917-Q124
Collection Date: 2/7/2024 9:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:48 AM	
Barium	120	0.083	1.0	µg/L	1	2/9/2024 12:48 AM	
Manganese	470	0.26	5.0	µg/L	10	2/9/2024 04:21 PM	
Molybdenum	4.9	0.12	0.50	µg/L	1	2/9/2024 12:48 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 12:48 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-014

Client Sample ID: MW-78-142-Q124
Collection Date: 2/7/2024 9:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 12:53 AM	
Barium	28	0.083	1.0	µg/L	1	2/9/2024 12:53 AM	
Manganese	5.4	0.026	0.50	µg/L	1	2/9/2024 12:53 AM	
Molybdenum	14	0.12	0.50	µg/L	1	2/9/2024 12:53 AM	
Selenium	2.7	0.044	0.50	µg/L	1	2/12/2024 04:27 PM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-015

Client Sample ID: MW-79-058-Q124
Collection Date: 2/7/2024 10:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:11 AM	
Barium	130	0.083	1.0	µg/L	1	2/9/2024 01:11 AM	
Manganese	80	0.026	0.50	µg/L	1	2/9/2024 01:11 AM	
Molybdenum	5.5	0.12	0.50	µg/L	1	2/9/2024 01:11 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 01:11 AM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-016

Client Sample ID: MW-918-Q124
Collection Date: 2/7/2024 10:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:16 AM	
Barium	130	0.083	1.0	µg/L	1	2/9/2024 01:16 AM	
Manganese	71	0.026	0.50	µg/L	1	2/9/2024 01:16 AM	
Molybdenum	5.7	0.12	0.50	µg/L	1	2/9/2024 01:16 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 01:16 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-017

Client Sample ID: MW-79-102-Q124
Collection Date: 2/7/2024 11:26:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:21 AM	
Barium	53	0.083	1.0	µg/L	1	2/9/2024 01:21 AM	
Manganese	69	0.026	0.50	µg/L	1	2/9/2024 01:21 AM	
Molybdenum	38	0.12	0.50	µg/L	1	2/9/2024 01:21 AM	
Selenium	0.68	0.044	0.50	µg/L	1	2/12/2024 04:36 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-018

Client Sample ID: MW-80-057-Q124
Collection Date: 2/7/2024 12:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:44 AM	
Barium	78	0.083	1.0	µg/L	1	2/9/2024 01:44 AM	
Manganese	67	0.026	0.50	µg/L	1	2/9/2024 01:44 AM	
Molybdenum	9.8	0.12	0.50	µg/L	1	2/9/2024 01:44 AM	
Selenium	0.64	0.044	0.50	µg/L	1	2/9/2024 01:44 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-019

Client Sample ID: MW-80-082-Q124
Collection Date: 2/7/2024 12:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:49 AM	
Barium	51	0.083	1.0	µg/L	1	2/9/2024 01:49 AM	
Manganese	240	0.26	5.0	µg/L	10	2/9/2024 05:03 PM	
Molybdenum	23	0.12	0.50	µg/L	1	2/9/2024 01:49 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 01:49 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 22-Feb-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N062966
Project: PG&E Topock - PCM, 30121866
Lab ID: N062966-020

Client Sample ID: MW-919-Q124
Collection Date: 2/7/2024 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_240208G	QC Batch:	106696	PrepDate:	2/8/2024	Analyst:	DJ
Arsenic	ND	0.050	0.10	µg/L	1	2/9/2024 01:53 AM	
Barium	50	0.083	1.0	µg/L	1	2/9/2024 01:53 AM	
Manganese	230	0.26	5.0	µg/L	10	2/9/2024 05:08 PM	
Molybdenum	23	0.12	0.50	µg/L	1	2/9/2024 01:53 AM	
Selenium	ND	0.044	0.50	µg/L	1	2/9/2024 01:53 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: LCS-106696	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181387
Client ID: LCSW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5683858
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Barium	11.061	1.0	10.00	0	111 85 115

Sample ID: N062966-001CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181387
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5683862
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	237.203	5.0	100.0	213.1	24.1 75 125 S

Sample ID: N062966-001CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181387
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5683863
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	301.843	5.0	100.0	213.1	88.7 75 125 237.2 24.0 20 R

Sample ID: MB-106696	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417
Client ID: PBW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5685804
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID: LCS-106696	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417
Client ID: LCSW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5685805
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: LCS-106696	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: LCSW	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5685805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.225	0.10	10.00	0	102	85	115				
Manganese	102.089	0.50	100.0	0	102	85	115				
Molybdenum	10.363	0.50	10.00	0	104	85	115				
Selenium	10.025	0.50	10.00	0	100	85	115				

Sample ID: N062966-001CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5685811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.525	0.10	10.00	4.274	103	75	125				
Barium	43.622	1.0	10.00	35.86	77.6	75	125				
Molybdenum	15.551	0.50	10.00	4.984	106	75	125				
Selenium	10.082	0.50	10.00	0	101	75	125				

Sample ID: N062966-001CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/8/2024	SeqNo: 5685812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.389	0.10	10.00	4.274	101	75	125	14.53	0.939	20	
Barium	43.093	1.0	10.00	35.86	72.3	75	125	43.62	1.22	20	S
Molybdenum	15.033	0.50	10.00	4.984	100	75	125	15.55	3.38	20	
Selenium	9.617	0.50	10.00	0	96.2	75	125	10.08	4.73	20	

Sample ID: N062966-017CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5685831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.615	0.10	10.00	0	96.2	75	125				
Barium	60.381	1.0	10.00	52.85	75.3	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062966-017CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5685831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	162.106	0.50	100.0	68.58	93.5	75	125				
Molybdenum	46.876	0.50	10.00	37.66	92.1	75	125				

Sample ID: N062966-017CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5685832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.230	0.10	10.00	0	92.3	75	125	9.615	4.09	20	
Barium	61.039	1.0	10.00	52.85	81.9	75	125	60.38	1.08	20	
Manganese	159.413	0.50	100.0	68.58	90.8	75	125	162.1	1.67	20	
Molybdenum	48.017	0.50	10.00	37.66	104	75	125	46.88	2.41	20	

Sample ID: N062966-017CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5691245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.270	0.50	10.00	0.6756	95.9	75	125				

Sample ID: N062966-017CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 2/8/2024	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020 EPA 3010A		Analysis Date: 2/9/2024	SeqNo: 5691246						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.377	0.50	10.00	0.6756	97.0	75	125	10.27	1.04	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5683861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1147.022	5.0	1000	213.1	93.4	80	120				

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5685810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.679	0.10	10.00	4.274	104	80	120				
Barium	44.863	1.0	10.00	35.86	90.0	80	120				
Molybdenum	15.664	0.50	10.00	4.984	107	80	120				
Selenium	9.829	0.50	10.00	0	98.3	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5685830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.093	0.10	10.00	0	90.9	80	120				
Barium	61.511	1.0	10.00	52.85	86.6	80	120				
Manganese	162.818	0.50	100.0	68.58	94.2	80	120				
Molybdenum	48.247	0.50	10.00	37.66	106	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5691244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.251	0.50	10.00	0.6756	95.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



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SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
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ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

ARCUS02 C: 2/22/2024 12:00 AM
 FOLDER R: 2/7/2024
N062966-022A 1 of 2

Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		EDD Req:		Excel EDD		RTNE		Y N	
Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address:		Geotracker		RWQCB		✓		1. Chilled	
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com		Address:		Labspec		CalTrans				2. Headspace	
Phone: 916-786-3302		Fax: daniel.moore@critigen.com		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email: mbloes@pivox.com		Others		✓		3. Container Intact	
Submitted By: Riggs Top		Address: 101 Creekside Ridge Court, Roseville, CA 95678		P.O.#		Specify:		RWQCB		LEVEL IV		4. Seal Present	
Title: Field Tech.		Phone: 916-786-3302		Phone: 949-727-1400, ext 200		Fax:		Global ID:		Regulatory		5. IR number 3	
Signature: [Signature]		Date: 02/07/24		Sampled By: Riggs Top		Date: 02/07/24		Matrix		Ground		X Sediment	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Potable		Soil		NPDES		Other Solid		Surface	
Project Name: PG&E Topock - PCM		Project Number: 30121866		Sample ID/Location		Sample Date		Sample Time		Others		Remarks	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Remarks	
1		N062966-001		MW-34-055-Q124		2/7/2024		10:22		X		MSMSD	
2		-002		MW-34-055-EB-Q124		2/7/2024		10:02		X		BNS	
3		-003		MW-34-080-Q124		2/7/2024		9:49		X X		BNS	
4		-004		MW-34-080-EB-Q124		2/7/2024		9:30		X		BNS	
5		-005		MW-34-100-Q124		2/7/2024		9:18		X X		BNS	
6		-006		MW-44-070-Q124		2/7/2024		13:03		X		BNS	
7		-007		MW-44-070-EB-Q124		2/7/2024		12:42		X		BNS	
8		-008		MW-44-115-Q124		2/7/2024		11:59		X X		BNS	
9		-009		MW-44-125-Q124		2/7/2024		12:36		X X		BNS	
10		-010		MW-45-095a-Q124		2/7/2024		11:20		X X		BNS	
11		-011		EB-713-Q124		2/7/2024		13:10		X		BNS	
12													
13													
14													

Relinquished by (Signature and Printed Name): [Signature] Date/Time: 02/07/24 16:15
 Relinquished by (Signature and Printed Name): [Signature] Date/Time: 2/7/24 2024
 Relinquished by (Signature and Printed Name): [Signature] Date/Time: 2/7/24 2024

Turn Around Time (TAT)
 A < 24 Hrs or Same Day TAT
 B = Next Workday
 C = 2 Workdays
 D = 3 Workdays
 E = Routine 5-7 Workdays

Special Instruction:

Terms
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharge will apply for rush analysis.
 Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
 3. Custom EDD formats will be an additional 3% of the total project price.
 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
 5. Trip Blanks and Equipment Blanks are billable sample.
 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are not 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Preservatives:		Container Type:	
H=HCL	N=HNO3	S=H2SO4	C=4°C
Z=Zn(AC)2	O=NaOH	T=Na2S2O3	J=Jar
Others/Specify:	B (NH4)2SO4/NH4OH	M=Metal	C=Can

White=Laboratory Copy

Yellow=Customer's Copy



Client: Arcadis		Report to: Dan Bush		Bill to: Marty Bloes		Address: 101 Creekside Ridge Court, Suite 200		Company: Arcadis		Address: [Blank]		Excel EDD		RTNE		Y N											
Address: Roseville, CA 95678		Email: dan.bush@arcadis.com		Address: [Blank]		Address: [Blank]		Address: [Blank]		Address: [Blank]		Geotracker		RWQCB		1. Chilled											
Phone: 916-786-3302		Address: 101 Creekside Ridge Court, Roseville, CA 95678		Email to: mbloes@pivox.com		P.O.#		Address: [Blank]		Address: [Blank]		Labspec		CalTrans		2. Headspace											
Submitted By: <i>Riggie Tep</i>		Phone: 916-786-3302		Phone: 949-727-1400, ext 200		Fax:		Address: [Blank]		Address: [Blank]		Others		LEVEL III		3. Container Intact											
Title: <i>Field Tech</i>		Signature: <i>Riggie Tep</i>		Date: <i>02/07/24</i>		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Address: [Blank]		Address: [Blank]		Specify: RWQCB		LEVEL IV		4. Seal Present											
Project Name: PG&E Topock - PCM		Project Number: 30121866.3Q23GW		Sample By: <i>Riggie Tep</i>		Sample Date: [Blank]		Sample Time: [Blank]		Others: [Blank]		Global ID:		Regulatory		5. IR number											
Matrix		Ground		X Sediment		250 mL poly		1 L poly		500mL poly		500mL poly		500mL poly		3x40 mL VOA		1 L poly		125 mL poly		1 L poly		Specify State:		6. Method of Cooling:	
Potable		Soil		Other Solid		Surface		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,		Dissolved metals (SW6020) FF: HNO3 Selenium, Molybdenum		Total Organic Carbon (SM5310C); H2SO4		Ammonia as Nitrogen (SM4500NH3D); H2SO4		Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4		Nitrate (EPA 300.0)		Sample Temp: <i>1.4°C / 11.7°C</i>	
Turn Around Time		No. of Container		Container Type		PRESERVATION		Remarks		Turn Around Time		No. of Container		Container Type		PRESERVATION		Remarks									
1		N062966-012		✓ MW-78-070-Q124		2/7/2024 9:00		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
2		-013		✓ MW-917-Q124		2/7/2024 9:02		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
3		-014		✓ MW-78-142-Q124		2/7/2024 9:52		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
4		-015		✓ MW-79-058-Q124		2/7/2024 10:49		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
5		-016		✓ MW-918-Q124		2/7/2024 10:51		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
6		-017		✓ MW-79-102-Q124		2/7/2024 11:26		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS		MSMSD									
7		-018		✓ MW-80-057-Q124		2/7/2024 12:25		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
8		-019		✓ MW-80-082-Q124		2/7/2024 12:56		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
9		-020		✓ MW-919-Q124		2/7/2024 12:59		X X X X X		X X X X X		X X X X X		E 3 P BNS		BNS											
10		-021		✓ EB-714-Q124		2/7/2024 13:50		X						E 1 P BNS		BNS											
11																											
12																											
13																											
14																											
Relinquished by (Signature and Printed Name): <i>MD - Riggie Tep</i>		Date/Time: <i>02/07/24 1615</i>		Relinquished by (Signature and Printed Name): <i>Michael Alentorn</i>		Date/Time: <i>2/7/24 1615</i>		Turn Around Time (TAT)		Special Instruction:																	
Relinquished by (Signature and Printed Name): <i>Michael Alentorn</i>		Date/Time: <i>2/7/24</i>		Relinquished by (Signature and Printed Name): <i>Michael Alentorn</i>		Date/Time: <i>2/7/24</i>		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays																			
Relinquished by (Signature and Printed Name): [Blank]		Date/Time: [Blank]		Relinquished by (Signature and Printed Name): [Blank]		Date/Time: [Blank]		TAT Starts at 8 AM the following day if samples received after 3:00PM.																			
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are net 30 days.		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		9. For subcontract analysis, TAT and Surcharges will vary.		Preservatives:		Container Type:													
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.		3. Custom EDD formats will be an additional 3% of the total project price.		4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.		H=HCL N=HNO3 S=H2SO4 C=4°C		T=Tube V=VOA P=Pin		Z=Zn(AC)2 O=NaOH T=Na2S2O3		J=Jar B=Tedlar G=Glass		Others/Specify: B [(NH4)2SO4/NH4OH		M=Metal M=Metal C=Can									

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 2/7/2024 Workorder: N062966
 Rep sample Temp (Deg C): 1.4/1.7 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By YR YRodriguez
2/8/2024

Reviewed By: for: *J. P. Harris*
MBC 02/09/2024

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-001A	MW-34-055-Q124	2/7/2024 10:22:00 AM	2/22/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062966-001B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062966-001C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062966-002A	MW-34-055-EB-Q124	2/7/2024 10:02:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-003A	MW-34-080-Q124	2/7/2024 9:49:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-003B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-003C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-004A	MW-34-080-EB-Q124	2/7/2024 9:30:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-005A	MW-34-100-Q124	2/7/2024 9:18:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-005B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-005C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-006A	MW-44-070-Q124	2/7/2024 1:03:00 PM	2/22/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-006B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-006C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-007A	MW-44-070-EB-Q124	2/7/2024 12:42:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-008A	MW-44-115-Q124	2/7/2024 11:59:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-008B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-008C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-009A	MW-44-125-Q124	2/7/2024 12:36:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-009B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-009C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-010A	MW-45-095a-Q124	2/7/2024 11:20:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-010B	MW-45-095a-Q124	2/7/2024 11:20:00 AM	2/22/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-010C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-011A	EB-713-Q124	2/7/2024 1:10:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-012A	MW-78-070-Q124	2/7/2024 9:00:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-012B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-012C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-013A	MW-917-Q124	2/7/2024 9:02:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-013B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-013C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-013C	MW-917-Q124	2/7/2024 9:02:00 AM	2/22/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-014A	MW-78-142-Q124	2/7/2024 9:52:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-014B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-014C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-015A	MW-79-058-Q124	2/7/2024 10:49:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-015B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-015C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-016A	MW-918-Q124	2/7/2024 10:51:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-016B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-016C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-016C	MW-918-Q124	2/7/2024 10:51:00 AM	2/22/2024	Groundwater	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-017A	MW-79-102-Q124	2/7/2024 11:26:00 AM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW	
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW	
N062966-017C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N062966-018A	MW-80-057-Q124	2/7/2024 12:25:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N062966-018C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-019A	MW-80-082-Q124	2/7/2024 12:56:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
2/22/2024			EPA 300.0		ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	

ASSET Laboratories

WORK ORDER Summary

08-Feb-24

WorkOrder: N062966

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30121866

QC Level: Level IV

Date Received: 2/7/2024 8:29 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N062966-019C	MW-80-082-Q124	2/7/2024 12:56:00 PM	2/22/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-020A	MW-919-Q124	2/7/2024 12:59:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-020B			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-020C			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/22/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-021A	EB-714-Q124	2/7/2024 1:50:00 PM	2/22/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N062966-022A	FOLDER	2/22/2024	2/22/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			2/22/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			2/22/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N062966

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R181355
ASSET #: N062966

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 2/8/2024

Method:

- EPA 300.0
EPA 7199

- EPA 218.6/EPA 218.7
EPA 218.6/EPA 218.7 LL
Others

Table with columns for Initial Calibration and Initial Calibration Verification, Continuing Calibration, Sample Information, QC Items, Raw Data and Miscellaneous Information, and Preliminary Report. Rows include various criteria like 'ICAL before initial sample analysis' and 'All samples are within linear range'.

Comments: Dilution was necessary for samples N062966-009 due to matrix interference.

N062966-016A = 15 ppb : N062966-016A (6020) = 19 ppb N062966-019A = 3.6 ppb : N062966-019A (6020) = 5.4 ppb
N062966-020A = 3.5 ppb : N062966-020A (6020) = 5.4ppb
MS protocol performed Recovery within criteria

SECOND LEVEL REVIEW:

Table for Second Level Review with columns Y, N, N/A and rows for sample analysis, matrix units, QC presence, analytical results, and first level review.

1st Level Reviewer RBA
2nd Level Reviewer RB 02202024

Date:
Date:



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R181381
ASSET #: N062966

Instrument ID: IC-07
Analyst: RBA
Date Analyzed: 2/9/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer RB 02202024

Date: _____
Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181444
 ASSET #: N062966

Instrument ID: IC-07
 Analyst: RBA
 Date Analyzed: 2/12/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for samples N062966-003 due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer RB 02202024

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N062966-005A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.3570 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 11.7850$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 12$$

Reviewed by:

MRecha 2/25/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV.ICV,1,	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

INJECTION LOG: 240208A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/08/24 9:03 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/08/24 9:17 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/08/24 9:27 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/08/24 9:36 AM	Reported
13	MB-R181355	MBLK	1	Hexavalent Chromium	02/08/24 9:46 AM	Reported
14	LCS-R181355	LCS	1	Hexavalent Chromium	02/08/24 9:55 AM	Reported
15	N062966-001A	SAMP	1	Hexavalent Chromium	02/08/24 10:28 AM	Reported
16	N062966-001AMS	MS	1	Hexavalent Chromium	02/08/24 10:40 AM	Reported
17	N062966-001AMSD	MSD	1	Hexavalent Chromium	02/08/24 10:50 AM	Reported
18	N062966-017A	SAMP	50	Hexavalent Chromium	02/08/24 10:59 AM	Reported
19	N062966-017AMS	MS	50	Hexavalent Chromium	02/08/24 11:08 AM	Reported
20	N062966-017AMSD	MSD	50	Hexavalent Chromium	02/08/24 11:18 AM	Reported
21	N062966-014A	SAMP	100	Hexavalent Chromium	02/08/24 11:27 AM	Reported
22	N062966-014AMS	MS	100	Hexavalent Chromium	02/08/24 11:37 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	02/08/24 11:46 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/08/24 11:56 AM	Reported
25	N062966-014ADUP	DUP	100	Hexavalent Chromium	02/08/24 12:24 PM	Reported
26	N062966-005A	SAMP	1	Hexavalent Chromium	02/08/24 12:36 PM	Not Reported
27	N062966-005AMS	MS	1	Hexavalent Chromium	02/08/24 12:46 PM	Not Reported
28	N062966-018A	SAMP	1	Hexavalent Chromium	02/08/24 12:55 PM	Not Reported
29	N062966-018AMS	MS	1	Hexavalent Chromium	02/08/24 1:08 PM	Not Reported
30	N062966-008A	SAMP	5	Hexavalent Chromium	02/08/24 1:18 PM	Reported
31	N062966-008AMS	MS	5	Hexavalent Chromium	02/08/24 1:27 PM	Reported
32	N062966-015A	SAMP	5	Hexavalent Chromium	02/08/24 1:37 PM	Reported
33	N062966-015AMS	MS	5	Hexavalent Chromium	02/08/24 1:46 PM	Reported
34	N062966-005A	SAMP	5	Hexavalent Chromium	02/08/24 1:56 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/08/24 2:05 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/08/24 2:15 PM	Reported
37	N062966-016A	SAMP	5	Hexavalent Chromium	02/08/24 2:29 PM	Reported
38	N062966-016AMS	MS	5	Hexavalent Chromium	02/08/24 2:39 PM	Reported
39	N062966-003A	SAMP	1	Hexavalent Chromium	02/08/24 2:49 PM	Not Reported
40	N062966-003AMS	MS	1	Hexavalent Chromium	02/08/24 2:58 PM	Not Reported
41	N062966-006A	SAMP	1	Hexavalent Chromium	02/08/24 3:08 PM	Reported
42	N062966-006AMS	MS	1	Hexavalent Chromium	02/08/24 3:17 PM	Reported

INJECTION LOG: 240208A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062966-010A	SAMP	1	Hexavalent Chromium	02/08/24 3:27 PM	Reported
44	N062966-010AMS	MS	1	Hexavalent Chromium	02/08/24 3:36 PM	Reported
45	N062966-012A	SAMP	1	Hexavalent Chromium	02/08/24 3:46 PM	Reported
46	N062966-012AMS	MS	1	Hexavalent Chromium	02/08/24 3:55 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/08/24 4:04 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/08/24 4:14 PM	Reported
49	N062966-013A	SAMP	1	Hexavalent Chromium	02/08/24 4:23 PM	Reported
50	N062966-013AMS	MS	1	Hexavalent Chromium	02/08/24 4:33 PM	Reported
51	N062966-019A	SAMP	1	Hexavalent Chromium	02/08/24 4:42 PM	Reported
52	N062966-019AMS	MS	1	Hexavalent Chromium	02/08/24 4:52 PM	Reported
53	N062966-020A	SAMP	1	Hexavalent Chromium	02/08/24 5:01 PM	Reported
54	N062966-020AMS	MS	1	Hexavalent Chromium	02/08/24 5:11 PM	Reported
55	N062966-009A	SAMP	1	Hexavalent Chromium	02/08/24 5:20 PM	Not Reported
56	N062966-009AMS	MS	1	Hexavalent Chromium	02/08/24 5:30 PM	Not Reported
57	N062966-009A	SAMP	5	Hexavalent Chromium	02/08/24 5:39 PM	Reported
58	N062966-009AMS	MS	5	Hexavalent Chromium	02/08/24 5:48 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/08/24 5:58 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/08/24 6:07 PM	Reported
61	N062966-002A	SAMP	1	Hexavalent Chromium	02/08/24 6:17 PM	Reported
62	N062966-002AMS	MS	1	Hexavalent Chromium	02/08/24 6:26 PM	Reported
63	N062966-004A	SAMP	1	Hexavalent Chromium	02/08/24 6:36 PM	Reported
64	N062966-004AMS	MS	1	Hexavalent Chromium	02/08/24 6:45 PM	Reported
65	N062966-007A	SAMP	1	Hexavalent Chromium	02/08/24 6:55 PM	Reported
66	N062966-007AMS	MS	1	Hexavalent Chromium	02/08/24 7:08 PM	Reported
67	N062966-011A	SAMP	1	Hexavalent Chromium	02/08/24 7:17 PM	Reported
68	N062966-011AMS	MS	1	Hexavalent Chromium	02/08/24 7:26 PM	Reported
69	N062966-005AMS	MS	5	Hexavalent Chromium	02/08/24 7:36 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	02/08/24 7:45 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	02/08/24 7:55 PM	Reported
72	N062966-018AMS	MS	5	Hexavalent Chromium	02/08/24 8:04 PM	Reported
73	N062966-018A	SAMP	5	Hexavalent Chromium	02/08/24 8:14 PM	Reported
74	CCV-7	CCV	1	Hexavalent Chromium	02/08/24 8:23 PM	Reported
75	CCB-7	CCB	1	Hexavalent Chromium	02/08/24 8:33 PM	Reported
76	BLANK	BLANK	1	Hexavalent Chromium	02/08/24 8:42 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240208A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	09/Feb/24 13:27:55
No. of Injections:	79	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/08/2024 09:03	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		02/08/2024 09:17	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb.CCV2,	3	1000	Unknown		02/08/2024 09:27	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		02/08/2024 09:36	Finished	CCB R240103B
13	MB-H2O.MBLK,1,	5	1000	Unknown		02/08/2024 09:46	Finished	MB R240103B
14	LCS-H2O.LCS,1,	6	1000	Unknown		02/08/2024 09:55	Finished	LCS @5ppb, IWST-231228B
15	N062966-001A,SAMP	1	1000	Unknown		02/08/2024 10:28	Finished	SAMP,10 mL
16	N062966-001AMS,MS	2	1000	Unknown		02/08/2024 10:40	Finished	MS (1ppb), IWST-231228B,10r
17	N062966-001AMSD,MS	3	1000	Unknown		02/08/2024 10:50	Finished	MSD (1ppb), IWST-231228B,10r
18	N062966-017A,SAMP	4	1000	Unknown		02/08/2024 10:59	Finished	SAMP,0.2>10 mL
19	N062966-017AMS,MS	5	1000	Unknown		02/08/2024 11:08	Finished	MS (5ppb), IWST-231228B,0.2
20	N062966-017AMSD,MS	6	1000	Unknown		02/08/2024 11:18	Finished	MSD (5ppb), IWST-231228B,0.2
21	N062966-014A,SAMP	7	1000	Unknown		02/08/2024 11:27	Finished	SAMP,0.1>10 mL
22	N062966-014AMS,MS	8	1000	Unknown		02/08/2024 11:37	Finished	MS (5ppb), IWST-231228B,0.1
23	CCV-2.CCV1,1,	9	1000	Unknown		02/08/2024 11:46	Finished	CCV @10ppb, IWST-231228A
24	CCB-2.CCB,1,	10	1000	Unknown		02/08/2024 11:56	Finished	CCB R240103B
25	N062966-014ADUP,MS	1	1000	Unknown		02/08/2024 12:24	Finished	DUP,0.1>10 mL
26	N062966-005A,SAMP	2	1000	Unknown		02/08/2024 12:36	Finished	SAMP,10 mL
27	N062966-005AMS,MS	3	1000	Unknown		02/08/2024 12:46	Finished	MS (5ppb), IWST-231228B,10r
28	N062966-018A,SAMP	4	1000	Unknown		02/08/2024 12:55	Finished	SAMP,10 mL
29	N062966-018AMS,MS	5	1000	Unknown		02/08/2024 13:08	Finished	MS (5ppb), IWST-231228B,10r
30	N062966-008A,SAMP	6	1000	Unknown		02/08/2024 13:18	Finished	SAMP,2>10 mL
31	N062966-008AMS,MS	7	1000	Unknown		02/08/2024 13:27	Finished	MS (5ppb), IWST-231228B,2>10
32	N062966-015A,SAMP	8	1000	Unknown		02/08/2024 13:37	Finished	SAMP,2>10 mL
33	N062966-015AMS,MS	9	1000	Unknown		02/08/2024 13:46	Finished	MS (5ppb), IWST-231228B,2>10
34	N062966-005A,SAMP	10	1000	Unknown		02/08/2024 13:56	Finished	SAMP,2>10 mL
35	CCV-3.CCV,1,	11	1000	Unknown		02/08/2024 14:05	Finished	CCV @5ppb, IWST-231228A
36	CCB-3.CCB,1,	12	1000	Unknown		02/08/2024 14:15	Finished	CCB R240103B
37	N062966-016A,SAMP	1	1000	Unknown		02/08/2024 14:29	Finished	SAMP,2>10 mL
38	N062966-016AMS,MS	2	1000	Unknown		02/08/2024 14:39	Finished	MS (5ppb), IWST-231228B,2>10
39	N062966-003A,SAMP	3	1000	Unknown		02/08/2024 14:49	Finished	SAMP,10 mL
40	N062966-003AMS,MS	4	1000	Unknown		02/08/2024 14:58	Finished	MS (1ppb), IWST-231228B,10r
41	N062966-006A,SAMP	5	1000	Unknown		02/08/2024 15:08	Finished	SAMP,10 mL
42	N062966-006AMS,MS	6	1000	Unknown		02/08/2024 15:17	Finished	MS (1ppb), IWST-231228B,10r
43	N062966-010A,SAMP	7	1000	Unknown		02/08/2024 15:27	Finished	SAMP,10 mL
44	N062966-010AMS,MS	8	1000	Unknown		02/08/2024 15:36	Finished	MS (1ppb), IWST-231228B,10r
45	N062966-012A,SAMP	9	1000	Unknown		02/08/2024 15:46	Finished	SAMP,10 mL
46	N062966-012AMS,MS	10	1000	Unknown		02/08/2024 15:55	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4.CCV1,1,	11	1000	Unknown		02/08/2024 16:04	Finished	CCV @10ppb, IWST-231228A
48	CCB-4.CCB,1,	12	1000	Unknown		02/08/2024 16:14	Finished	CCB R240103B
49	N062966-013A,SAMP	13	1000	Unknown		02/08/2024 16:23	Finished	SAMP,10 mL
50	N062966-013AMS,MS	14	1000	Unknown		02/08/2024 16:33	Finished	MS (1ppb), IWST-231228B,10r
51	N062966-019A,SAMP	15	1000	Unknown		02/08/2024 16:42	Finished	SAMP,10 mL
52	N062966-019AMS,MS	16	1000	Unknown		02/08/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
53	N062966-020A,SAMP	17	1000	Unknown		02/08/2024 17:01	Finished	SAMP,10 mL
54	N062966-020AMS,MS	18	1000	Unknown		02/08/2024 17:11	Finished	MS (1ppb), IWST-231228B,10r
55	N062966-009A,SAMP	19	1000	Unknown		02/08/2024 17:20	Finished	SAMP,10 mL
56	N062966-009AMS,MS	20	1000	Unknown		02/08/2024 17:30	Finished	MS (1ppb), IWST-231228B,10r
57	N062966-009A,SAMP	21	1000	Unknown		02/08/2024 17:39	Finished	SAMP,2>10 mL
58	N062966-009AMS,MS	22	1000	Unknown		02/08/2024 17:48	Finished	MS (1ppb), IWST-231228B,2>10
59	CCV-5.CCV,1,	23	1000	Unknown		02/08/2024 17:58	Finished	CCV @5ppb, IWST-231228A
60	CCB-5.CCB,1,	24	1000	Unknown		02/08/2024 18:07	Finished	CCB R240103B

61	N062966-002A,SAMP	25	1000	Unknown	02/08/2024 18:17	Finished	SAMP,10 mL
62	N062966-002AMS,MS	26	1000	Unknown	02/08/2024 18:26	Finished	MS (1ppb), IWST-231228B,10r
63	N062966-004A,SAMP	27	1000	Unknown	02/08/2024 18:36	Finished	SAMP,10 mL
64	N062966-004AMS,MS	28	1000	Unknown	02/08/2024 18:45	Finished	MS (1ppb), IWST-231228B,10r
65	N062966-007A,SAMP	29	1000	Unknown	02/08/2024 18:55	Finished	SAMP,10 mL
66	N062966-007AMS,MS	30	1000	Unknown	02/08/2024 19:08	Finished	MS (1ppb), IWST-231228B,10r
67	N062966-011A,SAMP	31	1000	Unknown	02/08/2024 19:17	Finished	SAMP,10 mL
68	N062966-011AMS,MS	32	1000	Unknown	02/08/2024 19:26	Finished	MS (1ppb), IWST-231228B,10r
69	N062966-005AMS,MS	33	1000	Unknown	02/08/2024 19:36	Finished	MS (1ppb), IWST-231228B,2>1
70	CCV-6.CCV1,1,	34	1000	Unknown	02/08/2024 19:45	Finished	CCV @ 10ppb, IWST-231228A
71	CCB-6.CCB,1,	35	1000	Unknown	02/08/2024 19:55	Finished	CCB R240103B
72	N062966-018AMS,MS	36	1000	Unknown	02/08/2024 20:04	Finished	MS (5ppb), IWST-231228B,2>1
73	N062966-018A,SAMP	37	1000	Unknown	02/08/2024 20:14	Finished	SAMP,2>10 mL
74	CCV-7.CCV,1,	38	1000	Unknown	02/08/2024 20:23	Finished	CCV @ 5ppb, IWST-231228A
75	CCB-7.CCB,1,	39	1000	Unknown	02/08/2024 20:33	Finished	CCB R240103B
76	BLANK	40	1000	Unknown	02/08/2024 20:42	Finished	BLANK
77	SHUTDOWN	41	1000	Unknown	02/08/2024 20:52	Finished	
78	Eluent: R240205A	42	1000	Unknown	n.a.	Finished	
79	PCR: R240205B	43	1000	Unknown	n.a.	Finished	



INJECTION LOG: 240209A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/09/24 8:58 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/09/24 9:14 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/09/24 9:23 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/09/24 9:33 AM	Reported
13	MB-R181381	MBLK	1	Hexavalent Chromium	02/09/24 9:42 AM	Reported
14	LCS-R181381	LCS	1	Hexavalent Chromium	02/09/24 9:51 AM	Reported
15	N062966-021A	SAMP	1	Hexavalent Chromium	02/09/24 10:04 AM	Reported
16	N062966-021AMS	MS	1	Hexavalent Chromium	02/09/24 10:14 AM	Reported
17	N063001-001A	SAMP	1	Hexavalent Chromium	02/09/24 10:48 AM	Reported
18	N063001-001AMS	MS	1	Hexavalent Chromium	02/09/24 10:58 AM	Reported
19	N063001-001AMSD	MSD	1	Hexavalent Chromium	02/09/24 11:07 AM	Reported
20	N063001-014A	SAMP	1	Hexavalent Chromium	02/09/24 11:17 AM	Reported
21	N063001-014AMS	MS	1	Hexavalent Chromium	02/09/24 11:26 AM	Not Reported
22	N063001-009A	SAMP	5	Hexavalent Chromium	02/09/24 11:36 AM	Not Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/09/24 11:44 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/09/24 11:54 AM	Reported
25	N063001-011A	SAMP	5	Hexavalent Chromium	02/09/24 12:03 PM	Reported
26	N063001-011AMS	MS	5	Hexavalent Chromium	02/09/24 12:13 PM	Reported
27	N063001-007A	SAMP	1	Hexavalent Chromium	02/09/24 12:22 PM	Reported
28	N063001-007AMS	MS	1	Hexavalent Chromium	02/09/24 12:32 PM	Reported
29	N063001-003A	SAMP	1	Hexavalent Chromium	02/09/24 12:41 PM	Not Reported
30	N063001-003AMS	MS	1	Hexavalent Chromium	02/09/24 12:51 PM	Not Reported
31	N063001-004A	SAMP	1	Hexavalent Chromium	02/09/24 1:00 PM	Reported
32	N063001-009A	SAMP	5	Hexavalent Chromium	02/09/24 1:13 PM	Reported
33	N063001-005A	SAMP	1	Hexavalent Chromium	02/09/24 1:24 PM	Reported
34	N063001-005AMS	MS	1	Hexavalent Chromium	02/09/24 1:33 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/09/24 1:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/09/24 1:52 PM	Reported
37	N063001-006A	SAMP	1	Hexavalent Chromium	02/09/24 2:02 PM	Reported
38	N063001-006AMS	MS	1	Hexavalent Chromium	02/09/24 2:11 PM	Reported
39	N063001-012A	SAMP	1	Hexavalent Chromium	02/09/24 2:21 PM	Reported
40	N063001-012AMS	MS	1	Hexavalent Chromium	02/09/24 2:30 PM	Reported
41	N063001-015A	SAMP	1	Hexavalent Chromium	02/09/24 2:40 PM	Reported
42	N063001-015AMS	MS	1	Hexavalent Chromium	02/09/24 2:49 PM	Reported

INJECTION LOG: 240209A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063001-016A	SAMP	1	Hexavalent Chromium	02/09/24 2:58 PM	Reported
44	N063001-016AMS	MS	1	Hexavalent Chromium	02/09/24 3:08 PM	Reported
45	N063001-017A	SAMP	1	Hexavalent Chromium	02/09/24 3:17 PM	Reported
46	N063001-017AMS	MS	1	Hexavalent Chromium	02/09/24 3:27 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/09/24 3:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/09/24 3:46 PM	Reported
49	N063001-018A	SAMP	1	Hexavalent Chromium	02/09/24 3:55 PM	Reported
50	N063001-018AMS	MS	1	Hexavalent Chromium	02/09/24 4:05 PM	Reported
51	N063001-002A	SAMP	1	Hexavalent Chromium	02/09/24 4:14 PM	Reported
52	N063001-002AMS	MS	1	Hexavalent Chromium	02/09/24 4:23 PM	Reported
53	N063001-013A	SAMP	1	Hexavalent Chromium	02/09/24 4:33 PM	Reported
54	N063001-013AMS	MS	1	Hexavalent Chromium	02/09/24 4:42 PM	Reported
55	N063001-019A	SAMP	1	Hexavalent Chromium	02/09/24 4:52 PM	Reported
56	N063001-019AMS	MS	1	Hexavalent Chromium	02/09/24 5:01 PM	Reported
57	N063001-010A	SAMP	5	Hexavalent Chromium	02/09/24 5:11 PM	Reported
58	N063001-010AMS	MS	5	Hexavalent Chromium	02/09/24 5:20 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/09/24 5:30 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/09/24 5:39 PM	Reported
61	N063001-009AMS	MS	5	Hexavalent Chromium	02/09/24 5:49 PM	Reported
62	N063001-008A	SAMP	1	Hexavalent Chromium	02/09/24 5:58 PM	Reported
63	N063001-008AMS	MS	1	Hexavalent Chromium	02/09/24 6:08 PM	Reported
64	N063001-008ADUP	DUP	1	Hexavalent Chromium	02/09/24 6:17 PM	Reported
65	N063001-008AMSD	MSD	1	Hexavalent Chromium	02/09/24 6:26 PM	Not Reported
66	N063001-004AMS	MS	1	Hexavalent Chromium	02/09/24 6:36 PM	Reported
67	N063001-014AMS	MS	1	Hexavalent Chromium	02/09/24 6:45 PM	Reported
68	CCV-6	CCV1	1	Hexavalent Chromium	02/09/24 6:55 PM	Reported
69	CCB-6	CCB	1	Hexavalent Chromium	02/09/24 7:04 PM	Reported
70	BLANK	BLANK	1	Hexavalent Chromium	02/09/24 7:14 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240209A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	10/Feb/24 12:03:51
No. of Injections:	73	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/09/2024 08:58	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/09/2024 09:14	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV,2,	3	1000	Unknown		02/09/2024 09:23	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/09/2024 09:33	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/09/2024 09:42	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/09/2024 09:51	Finished	LCS @5ppb, IWST-231228B
15	N062966-021A,SAMF	1	1000	Unknown		02/09/2024 10:04	Finished	SAMP,10 mL
16	N062966-021AMS,MS	2	1000	Unknown		02/09/2024 10:14	Finished	MS (1ppb), IWST-231228B,10r
17	N063001-001A,SAMF	2	1000	Unknown		02/09/2024 10:48	Finished	SAMP,10 mL
18	N063001-001AMS,MS	3	1000	Unknown		02/09/2024 10:58	Finished	MS (1ppb), IWST-231228B,10r
19	N063001-001AMSD,MS	4	1000	Unknown		02/09/2024 11:07	Finished	MSD (1ppb), IWST-231228B,10r
20	N063001-014A,SAMF	5	1000	Unknown		02/09/2024 11:17	Finished	SAMP,10 mL
21	N063001-014AMS,MS	6	1000	Unknown		02/09/2024 11:26	Finished	MS (5ppb), IWST-231228B,10r
22	N063001-009A,SAMF	7	1000	Unknown		02/09/2024 11:36	Finished	SAMP,2>10 mL
23	CCV-2,CCV,1,	8	1000	Unknown		02/09/2024 11:44	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	9	1000	Unknown		02/09/2024 11:54	Finished	CCB R240103B
25	N063001-011A,SAMF	10	1000	Unknown		02/09/2024 12:03	Finished	SAMP,2>10 mL
26	N063001-011AMS,MS	11	1000	Unknown		02/09/2024 12:13	Finished	MS (5ppb), IWST-231228B,2>
27	N063001-007A,SAMF	12	1000	Unknown		02/09/2024 12:22	Finished	SAMP,10 mL
28	N063001-007AMS,MS	13	1000	Unknown		02/09/2024 12:32	Finished	MS (1ppb), IWST-231228B,10r
29	N063001-003A,SAMF	14	1000	Unknown		02/09/2024 12:41	Finished	MS (5ppb), IWST-231228B,10r
30	N063001-003AMS,MS	15	1000	Unknown		02/09/2024 12:51	Finished	SAMP,2>10 mL
31	N063001-004A,SAMF	16	1000	Unknown		02/09/2024 13:00	Finished	MS (5ppb), IWST-231228B,2>
32	N063001-009A,SAMF	1	1000	Unknown		02/09/2024 13:13	Finished	SAMP,2>10 mL
33	N063001-005A,SAMF	2	1000	Unknown		02/09/2024 13:24	Finished	MS (5ppb), IWST-231228B,2>
34	N063001-005AMS,MS	3	1000	Unknown		02/09/2024 13:33	Finished	SAMP,2>10 mL
35	CCV-3,CCV,1,	4	1000	Unknown		02/09/2024 13:43	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	5	1000	Unknown		02/09/2024 13:52	Finished	CCB R240103B
37	N063001-006A,SAMF	6	1000	Unknown		02/09/2024 14:02	Finished	SAMP,10 mL
38	N063001-006AMS,MS	7	1000	Unknown		02/09/2024 14:11	Finished	MS (1ppb), IWST-231228B,10r
39	N063001-012A,SAMF	8	1000	Unknown		02/09/2024 14:21	Finished	SAMP,10 mL
40	N063001-012AMS,MS	9	1000	Unknown		02/09/2024 14:30	Finished	MS (1ppb), IWST-231228B,10r
41	N063001-015A,SAMF	10	1000	Unknown		02/09/2024 14:40	Finished	SAMP,10 mL
42	N063001-015AMS,MS	11	1000	Unknown		02/09/2024 14:49	Finished	MS (1ppb), IWST-231228B,10r
43	N063001-016A,SAMF	12	1000	Unknown		02/09/2024 14:58	Finished	SAMP,10 mL
44	N063001-016AMS,MS	13	1000	Unknown		02/09/2024 15:08	Finished	MS (1ppb), IWST-231228B,10r
45	N063001-017A,SAMF	14	1000	Unknown		02/09/2024 15:17	Finished	SAMP,10 mL
46	N063001-017AMS,MS	15	1000	Unknown		02/09/2024 15:27	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV,1,	16	1000	Unknown		02/09/2024 15:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	17	1000	Unknown		02/09/2024 15:46	Finished	CCB R240103B
49	N063001-018A,SAMF	18	1000	Unknown		02/09/2024 15:55	Finished	SAMP,10 mL
50	N063001-018AMS,MS	19	1000	Unknown		02/09/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
51	N063001-002A,SAMF	20	1000	Unknown		02/09/2024 16:14	Finished	SAMP,10 mL
52	N063001-002AMS,MS	21	1000	Unknown		02/09/2024 16:23	Finished	MS (1ppb), IWST-231228B,10r
53	N063001-013A,SAMF	22	1000	Unknown		02/09/2024 16:33	Finished	SAMP,10 mL
54	N063001-013AMS,MS	23	1000	Unknown		02/09/2024 16:42	Finished	MS (1ppb), IWST-231228B,10r
55	N063001-019A,SAMF	24	1000	Unknown		02/09/2024 16:52	Finished	SAMP,10 mL
56	N063001-019AMS,MS	25	1000	Unknown		02/09/2024 17:01	Finished	MS (1ppb), IWST-231228B,10r
57	N063001-010A,SAMF	26	1000	Unknown		02/09/2024 17:11	Finished	SAMP,2>10 mL
58	N063001-010AMS,MS	27	1000	Unknown		02/09/2024 17:20	Finished	MS (5ppb), IWST-231228B,2>
59	CCV-5,CCV,1,	28	1000	Unknown		02/09/2024 17:30	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	29	1000	Unknown		02/09/2024 17:39	Finished	CCB R240103B

61	N063001-009AMS.M	30	1000	Unknown	02/09/2024 17:49	Finished	MS (5ppb), IWST-231228B,2>
62	N063001-008A,SAMF	31	1000	Unknown	02/09/2024 17:58	Finished	SAMP,10 mL
63	N063001-008AMS.M	32	1000	Unknown	02/09/2024 18:08	Finished	MS (1ppb), IWST-231228B,10r
64	N063001-008ADUP.D	33	1000	Unknown	02/09/2024 18:17	Finished	DUP,10 mL
65	N063001-008AMSD.N	34	1000	Unknown	02/09/2024 18:26	Finished	MSD (1ppb), IWST-231228B,1
66	N063001-004AMS.M	35	1000	Unknown	02/09/2024 18:36	Finished	SAMP,2>10 mL
67	N063001-014AMS.M	36	1000	Unknown	02/09/2024 18:45	Finished	MS (1ppb), IWST-231228B,10r
68	CCV-6,CCV1,1,	37	1000	Unknown	02/09/2024 18:55	Finished	CCV @10ppb, IWST-231228A
69	CCB-6,CCB,1,	38	1000	Unknown	02/09/2024 19:04	Finished	CCB R240103B
70	BLANK	39	1000	Unknown	02/09/2024 19:14	Finished	BLANK
71	SHUTDOWN	40	1000	Unknown	02/09/2024 19:23	Finished	
72	Eluent: R240205A	41	1000	Unknown	n.a.	Finished	
73	PCR: R240205B	42	1000	Unknown	n.a.	Finished	



INJECTION LOG: 240212A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/12/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/12/24 9:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/12/24 9:47 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/12/24 9:57 AM	Reported
13	MB-R181444	MBLK	1	Hexavalent Chromium	02/12/24 10:06 AM	Reported
14	LCS-R181444	LCS	1	Hexavalent Chromium	02/12/24 10:16 AM	Reported
15	N063001-021A	SAMP	1	Hexavalent Chromium	02/12/24 10:45 AM	Reported
16	N063001-021AMS	MS	1	Hexavalent Chromium	02/12/24 10:57 AM	Not Reported
17	N063012-004A	SAMP	500	Hexavalent Chromium	02/12/24 11:09 AM	Reported
18	N063012-004AMS	MS	500	Hexavalent Chromium	02/12/24 11:18 AM	Reported
19	N063012-004AMSD	MSD	500	Hexavalent Chromium	02/12/24 11:28 AM	Reported
20	N063012-002A	SAMP	500	Hexavalent Chromium	02/12/24 11:50 AM	Reported
21	N063012-002ADUP	DUP	500	Hexavalent Chromium	02/12/24 12:02 PM	Reported
22	N063012-002AMS	MS	500	Hexavalent Chromium	02/12/24 12:11 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/12/24 12:21 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/12/24 12:30 PM	Reported
25	N063012-006A	SAMP	1	Hexavalent Chromium	02/12/24 12:40 PM	Reported
26	N063012-006AMS	MS	1	Hexavalent Chromium	02/12/24 12:49 PM	Reported
27	N063012-007A	SAMP	1	Hexavalent Chromium	02/12/24 12:58 PM	Reported
28	N063012-007AMS	MS	1	Hexavalent Chromium	02/12/24 1:08 PM	Reported
29	N063012-009A	SAMP	1	Hexavalent Chromium	02/12/24 1:17 PM	Reported
30	N063012-009AMS	MS	1	Hexavalent Chromium	02/12/24 1:27 PM	Reported
31	N063012-001A	SAMP	100	Hexavalent Chromium	02/12/24 1:36 PM	Reported
32	N063012-001AMS	MS	100	Hexavalent Chromium	02/12/24 1:46 PM	Reported
33	N063001-020A	SAMP	1	Hexavalent Chromium	02/12/24 1:55 PM	Reported
34	N063001-020AMS	MS	1	Hexavalent Chromium	02/12/24 2:05 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/12/24 2:14 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/12/24 2:24 PM	Reported
37	N063010-001A	SAMP	1	Hexavalent Chromium	02/12/24 2:33 PM	Reported
38	N063010-001AMS	MS	1	Hexavalent Chromium	02/12/24 2:43 PM	Reported
39	N063010-002A	SAMP	1	Hexavalent Chromium	02/12/24 2:52 PM	Reported
40	N063010-002AMS	MS	1	Hexavalent Chromium	02/12/24 3:01 PM	Reported
41	N063010-003A	SAMP	1	Hexavalent Chromium	02/12/24 3:11 PM	Reported
42	N063010-003AMS	MS	1	Hexavalent Chromium	02/12/24 3:20 PM	Reported

INJECTION LOG: 240212A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063012-003A	SAMP	500	Hexavalent Chromium	02/12/24 3:30 PM	Reported
44	N063012-003AMS	MS	500	Hexavalent Chromium	02/12/24 3:39 PM	Reported
45	N062966-003A	SAMP	5	Hexavalent Chromium	02/12/24 3:49 PM	Reported
46	N062966-003AMS	MS	5	Hexavalent Chromium	02/12/24 3:58 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/12/24 4:08 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/12/24 4:17 PM	Reported
49	N063001-003A	SAMP	5	Hexavalent Chromium	02/12/24 4:26 PM	Reported
50	N063001-003AMS	MS	5	Hexavalent Chromium	02/12/24 4:36 PM	Reported
51	N063001-022A	SAMP	1	Hexavalent Chromium	02/12/24 4:45 PM	Reported
52	N063001-022AMS	MS	1	Hexavalent Chromium	02/12/24 4:55 PM	Reported
53	N063012-005A	SAMP	1	Hexavalent Chromium	02/12/24 5:04 PM	Reported
54	N063012-005AMS	MS	1	Hexavalent Chromium	02/12/24 5:14 PM	Reported
55	N063012-008A	SAMP	1	Hexavalent Chromium	02/12/24 5:23 PM	Reported
56	N063012-008AMS	MS	1	Hexavalent Chromium	02/12/24 5:33 PM	Reported
57	N063012-010A	SAMP	1	Hexavalent Chromium	02/12/24 5:42 PM	Reported
58	N063012-010AMS	MS	1	Hexavalent Chromium	02/12/24 5:52 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/12/24 6:01 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/12/24 6:14 PM	Reported
61	N063012-011A	SAMP	1	Hexavalent Chromium	02/12/24 6:24 PM	Reported
62	N063012-011AMS	MS	1	Hexavalent Chromium	02/12/24 6:33 PM	Reported
63	N063001-021AMS	MS	1	Hexavalent Chromium	02/12/24 6:43 PM	Reported
64	CCV-6	CCV1	1	Hexavalent Chromium	02/12/24 6:52 PM	Reported
65	CCB-6	CCB	1	Hexavalent Chromium	02/12/24 7:02 PM	Reported
66	BLANK	BLANK	1	Hexavalent Chromium	02/12/24 7:14 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240212A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Feb/24 19:44:39
No. of Injections:	69	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/12/2024 09:22	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/12/2024 09:38	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/12/2024 09:47	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/12/2024 09:57	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/12/2024 10:06	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/12/2024 10:16	Finished	LCS @5ppb, IWST-231228B
15	N063001-021A,SAMP	1	1000	Unknown		02/12/2024 10:45	Finished	SAMP,10 mL
16	N063001-021AMS,MS	2	1000	Unknown		02/12/2024 10:57	Finished	MS (5ppb), IWST-231228B,10r
17	N063012-004A,SAMP	3	1000	Unknown		02/12/2024 11:09	Finished	SAMP,0.02>10 mL
18	N063012-004AMS,MS	4	1000	Unknown		02/12/2024 11:18	Finished	MS (5ppb), IWST-231228B,0.0
19	N063012-004AMSD,MS	5	1000	Unknown		02/12/2024 11:28	Finished	MSD (5ppb), IWST-231228B,0
20	N063012-002A,SAMP	1	1000	Unknown		02/12/2024 11:50	Finished	SAMP,0.02>10 mL
21	N063012-002ADUP,MS	2	1000	Unknown		02/12/2024 12:02	Finished	DUP,0.02>10 mL
22	N063012-002AMS,MS	3	1000	Unknown		02/12/2024 12:11	Finished	MS (5ppb), IWST-231228B,0.0
23	CCV-2,CCV,1,	4	1000	Unknown		02/12/2024 12:21	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	5	1000	Unknown		02/12/2024 12:30	Finished	CCB R240103B
25	N063012-006A,SAMP	6	1000	Unknown		02/12/2024 12:40	Finished	SAMP,10 mL
26	N063012-006AMS,MS	7	1000	Unknown		02/12/2024 12:49	Finished	MS (1ppb), IWST-231228B,10r
27	N063012-007A,SAMP	8	1000	Unknown		02/12/2024 12:58	Finished	SAMP,10 mL
28	N063012-007AMS,MS	9	1000	Unknown		02/12/2024 13:08	Finished	MS (1ppb), IWST-231228B,10r
29	N063012-009A,SAMP	10	1000	Unknown		02/12/2024 13:17	Finished	SAMP,10 mL
30	N063012-009AMS,MS	11	1000	Unknown		02/12/2024 13:27	Finished	MS (1ppb), IWST-231228B,10r
31	N063012-001A,SAMP	12	1000	Unknown		02/12/2024 13:36	Finished	SAMP,0.1>10 mL
32	N063012-001AMS,MS	13	1000	Unknown		02/12/2024 13:46	Finished	MS (5ppb), IWST-231228B,0.1
33	N063001-020A,SAMP	14	1000	Unknown		02/12/2024 13:55	Finished	SAMP,10 mL
34	N063001-020AMS,MS	15	1000	Unknown		02/12/2024 14:05	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	16	1000	Unknown		02/12/2024 14:14	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	17	1000	Unknown		02/12/2024 14:24	Finished	CCB R240103B
37	N063010-001A,SAMP	18	1000	Unknown		02/12/2024 14:33	Finished	SAMP,10 mL
38	N063010-001AMS,MS	19	1000	Unknown		02/12/2024 14:43	Finished	MS (1ppb), IWST-231228B,10r
39	N063010-002A,SAMP	20	1000	Unknown		02/12/2024 14:52	Finished	SAMP,10 mL
40	N063010-002AMS,MS	21	1000	Unknown		02/12/2024 15:01	Finished	MS (1ppb), IWST-231228B,10r
41	N063010-003A,SAMP	22	1000	Unknown		02/12/2024 15:11	Finished	SAMP,10 mL
42	N063010-003AMS,MS	23	1000	Unknown		02/12/2024 15:20	Finished	MS (1ppb), IWST-231228B,10r
43	N063012-003A,SAMP	24	1000	Unknown		02/12/2024 15:30	Finished	SAMP,0.02>10 mL
44	N063012-003AMS,MS	25	1000	Unknown		02/12/2024 15:39	Finished	MS (5ppb), IWST-231228B,0.0
45	N062966-003A,SAMP	26	1000	Unknown		02/12/2024 15:49	Finished	SAMP,2>10 mL
46	N062966-003AMS,MS	27	1000	Unknown		02/12/2024 15:58	Finished	MS (1ppb), IWST-231228B,2>1
47	CCV-4,CCV1,1,	28	1000	Unknown		02/12/2024 16:08	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	29	1000	Unknown		02/12/2024 16:17	Finished	CCB R240103B
49	N063001-003A,SAMP	30	1000	Unknown		02/12/2024 16:26	Finished	SAMP,2>10 mL
50	N063001-003AMS,MS	31	1000	Unknown		02/12/2024 16:36	Finished	MS (1ppb), IWST-231228B,2>1
51	N063001-022A,SAMP	32	1000	Unknown		02/12/2024 16:45	Finished	SAMP,10 mL
52	N063001-022AMS,MS	33	1000	Unknown		02/12/2024 16:55	Finished	MS (1ppb), IWST-231228B,10r
53	N063012-005A,SAMP	34	1000	Unknown		02/12/2024 17:04	Finished	SAMP,10 mL
54	N063012-005AMS,MS	35	1000	Unknown		02/12/2024 17:14	Finished	MS (1ppb), IWST-231228B,10r
55	N063012-008A,SAMP	36	1000	Unknown		02/12/2024 17:23	Finished	SAMP,10 mL
56	N063012-008AMS,MS	37	1000	Unknown		02/12/2024 17:33	Finished	MS (1ppb), IWST-231228B,10r
57	N063012-010A,SAMP	38	1000	Unknown		02/12/2024 17:42	Finished	SAMP,10 mL
58	N063012-010AMS,MS	39	1000	Unknown		02/12/2024 17:52	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	40	1000	Unknown		02/12/2024 18:01	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	41	1000	Unknown		02/12/2024 18:14	Finished	CCB R240103B

61	N063012-011A,SAMP	42	1000	Unknown	02/12/2024 18:24	Finished	SAMP,10 mL
62	N063012-011AMS,MS	43	1000	Unknown	02/12/2024 18:33	Finished	MS (1ppb), IWST-231228B,10r
63	N063001-021AMS,MS	44	1000	Unknown	02/12/2024 18:43	Finished	MS (1ppb), IWST-231228B,10r
64	CCV-6,CCV1,1,	45	1000	Unknown	02/12/2024 18:52	Finished	CCV @10ppb, IWST-231228A
65	CCB-6,CCB,1,	46	1000	Unknown	02/12/2024 19:02	Finished	CCB R240103B
66	BLANK	47	1000	Unknown	02/12/2024 19:14	Finished	BLANK
67	SHUTDOWN	48	1000	Unknown	02/12/2024 19:23	Finished	
68	Eluent: R240212A	49	1000	Unknown	n.a.	Finished	
69	PCR: R240212B	50	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
SAMPLE PREPARATION SURVEILLANCE ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 2/7/24
 Time Prepared: 0958A
 Prepared By: mf

Reagent ID: _____
 Sulfuric Acid: 14225
 Diphenylcarbazine: 15709
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240107B

GPM
 N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N24028-17A	9.10	7.79	-250ml	-250ml	+3	
2)	18A	9.11	9.36			+3	
3)	19A	9.62	-				
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 2/8/24
 Time Prepared: 0846H
 Prepared By: NA

Reagent ID: _____
 Sulfuric Acid: 14225
 Diphenylcarbazine: 15709
 NH4OH + NH4SO4 eluent: N240205A
 NH4OH + NH4SO4 buffer: N240107B

6M NaOH
 N231228B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N262166-1A	9.74	-	-250ml	-250ml		
2)	2A	9.68	-				
3)	3A	9.28	-				
4)	4A	9.62	-				
5)	5A	9.47	-				
6)	6A	9.40	-				
7)	7A	9.65	-				
8)	8A	9.28	-				
9)	9A	9.14	9.30			+3	
10)	10A	9.32	-				
11)	11A	9.66	-				
12)	12A	9.34	-				
13)	13A	9.26	-				
14)	14A	9.54	-				
15)	15A	9.50	-				
	16A	9.52	-				

Logbook No. 24



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75 of 100

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 2/8/24
 Time Prepared: 0846H
 Prepared By: MA

Reagent ID:
 Sulfuric Acid: 14775
 Diphenylcarbazide: 15709
 NH₄OH + NH₄SO₄ eluent: N240205A
 NH₄OH + NH₄SO₄ buffer: N240107G

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N24966-17	9.76	-	250ml	250ml		
2)	18A	9.43	-				
3)	19A	9.56	-				
4)	20A	9.53	-				
5)	21A	9.70	-				
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 2/9/24
 Time Prepared: 0855H
 Prepared By: MA

Reagent ID:
 Sulfuric Acid: 14775
 Diphenylcarbazide: 15709
 NH₄OH + NH₄SO₄ eluent: N240205A
 NH₄OH + NH₄SO₄ buffer: N240107H
 6N NaOH
 N23124B

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N267001-1A	9.48	-	250ml	250ml		
2)	2A	9.69	-				
3)	3A	9.76	-				
4)	4A	9.76	-				
5)	5A	9.47	-				
6)	6A	9.45	-				
7)	7A	9.51	-				
8)	8A	9.00	9.44			14	
9)	9A	9.79	-				
10)	10A	9.78	-				
11)	11A	9.77	-				
12)	12A	9.44	-				
13)	13A	9.67	-				
14)	14A	9.78	-				
15)	15A	9.72	-				
	16A	9.74	-				

Logbook No. 24



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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert N20252
 ORELAP Cert 4046 (EPA TO 16 CFR 136)

INITIAL CALIBRATION DATA SUMMARY



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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: IC-07
Date Calibrated: 2/5/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0427	0.2063	1.0639	2.1157	3.2270	4.3227	0.9999
Measured, in ug/L	0.1985	0.9592	4.9461	9.8357	15.0023	20.0959	0.9999
Relative Error (%RE)		-4%		-2%			

	Stock	Working
Standard Concentration:	1000000 PPB	1,000 PPB
Standard ID:	ISST-220322A	IWST-231228A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{ (B - A) / A \} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ICV	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5681065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.834 0.20 5.000 0 96.7 90 110

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5681066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.180 0.20 0.2000 0 90.1 80 120

Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCV	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.906 0.20 5.000 0 98.1 95 105

Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.194 0.20 0.2000 0 97.2 80 120

Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZ	Batch ID: R181355	TestNo: EPA 218.6		Analysis Date: 2/8/2024	SeqNo: 5681081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 10.091 0.20 10.00 0 101 95 105

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCV	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681089							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.968	0.20	5.000	0	99.4	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681099							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.045	0.20	10.00	0	100	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCV	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681109							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.001	0.20	5.000	0	100	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ZZZZZZ	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681120							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.046	0.20	10.00	0	100	95	105				
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Sample ID: CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCV	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681124							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.059	0.20	5.000	0	101	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ICV	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5683005							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.20	5.000	0	96.7	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5683006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	90.1	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCV	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683008							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.848	0.20	5.000	0	97.0	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683009							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.173	0.20	0.2000	0	86.6	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683019							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.990	0.20	10.00	0	99.9	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCV	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683029							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.981	0.20	5.000	0	99.6	95	105
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.050	0.20	10.00	0	100	95	105
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCV	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683053							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.970	0.20	5.000	0	99.4	95	105
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ZZZZZZ	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683061							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.940	0.20	10.00	0	99.4	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ICV	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5686880							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.20	5.000	0	96.7	90	110				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5686881							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.180	0.20	0.2000	0	90.1	80	120				
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Sample ID: CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCV	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686883							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.811	0.20	5.000	0	96.2	95	105				
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Sample ID: PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686884							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.182	0.20	0.2000	0	91.1	80	120				
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Sample ID: CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686895							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.053	0.20	10.00	0	101	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCV	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686907							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.815	0.20	5.000	0	96.3	95	105				
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Sample ID: CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686919							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.016	0.20	10.00	0	100	95	105				
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Sample ID: CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCV	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686931							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.000	0.20	5.000	0	100	95	105				
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Sample ID: CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ZZZZZZ	Batch ID: R181444	TestNo: EPA 218.6	Analysis Date: 2/12/2024	SeqNo: 5686936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	9.874	0.20	10.00	0	98.7	95	105				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: ICB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/5/2024	SeqNo: 5681067							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681090							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681121							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181355						
Client ID: CCB	Batch ID: R181355	TestNo: EPA 218.6	Analysis Date: 2/8/2024	SeqNo: 5681125							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: ICB	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5683007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6		Analysis Date: 2/9/2024	SeqNo: 5683042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683054							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181381						
Client ID: CCB	Batch ID: R181381	TestNo: EPA 218.6	Analysis Date: 2/9/2024	SeqNo: 5683062							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: ICB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/5/2024	SeqNo: 5686882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686920						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Sample ID: CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 181444						
Client ID: CCB	Batch ID: R181444	TestNo: EPA 218.6		Analysis Date: 2/12/2024	SeqNo: 5686937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/8/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	

Average 4.047

Actual RT Window 3.967 - 4.127

Applied RT Window 3.847 - 4.247

MB-R181355	N.A.	N.A.
LCS-R181355	4.048	PASS
N062966-001A	N.A.	N.A.
N062966-001AMS	4.040	PASS
N062966-001AMSD	4.031	PASS
N062966-017A	4.040	PASS
N062966-017AMS	4.040	PASS
N062966-017AMSD	4.040	PASS
N062966-014A	4.040	PASS
N062966-014AMS	4.040	PASS
N062966-014ADUP	4.048	PASS
N062966-018A	3.856	PASS
N062966-018AMS	3.856	PASS
N062966-008A	3.990	PASS
N062966-008AMS	3.990	PASS
N062966-015A	4.015	PASS
N062966-015AMS	4.015	PASS
N062966-005A	3.998	PASS
N062966-016A	4.015	PASS
N062966-016AMS	4.015	PASS
N062966-003A	N.A.	N.A.

Reviewed by:

d/Recha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/8/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	

Average 4.047

Actual RT Window 3.967 - 4.127

Applied RT Window 3.847 - 4.247

N062966-006A	N.A.	N.A.
N062966-006AMS	4.023	PASS
N062966-010A	N.A.	N.A.
N062966-010AMS	3.865	PASS
N062966-012A	3.848	PASS
N062966-012AMS	3.865	PASS
N062966-013A	3.848	PASS
N062966-013AMS	3.873	PASS
N062966-019A	3.856	PASS
N062966-019AMS	3.848	PASS
N062966-020A	3.856	PASS
N062966-020AMS	3.856	PASS
N062966-009A	N.A.	N.A.
N062966-009A	N.A.	N.A.
N062966-009AMS	3.990	PASS
N062966-002A	N.A.	N.A.
N062966-002AMS	4.040	PASS
N062966-004A	N.A.	N.A.
N062966-004AMS	4.048	PASS
N062966-007A	N.A.	N.A.
N062966-007AMS	4.048	PASS

Reviewed by:

MRecha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/8/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.048	
CCV-3	4.048	
CCV-4	4.048	
CCV-5	4.048	
CCV-6	4.048	
CCV-7	4.048	

Average 4.047

Actual RT Window 3.967 - 4.127

Applied RT Window 3.847 - 4.247

N062966-011A	N.A.	N.A.
N062966-011AMS	4.048	PASS
N062966-005AMS	3.990	PASS
N062966-018AMS	4.015	PASS
N062966-018A	4.015	PASS

Reviewed by:

d/Rocha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.040	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.048	
CCV-6	4.040	

Average 4.041

Actual RT Window 3.961 - 4.121

Applied RT Window 3.841 - 4.241

MB-R181381	N.A.	N.A.
LCS-R181381	4.040	PASS
N062966-021A	N.A.	N.A.
N062966-021AMS	4.048	PASS
N063001-001A	3.881	PASS
N063001-001AMS	3.856	PASS
N063001-001AMSD	3.856	PASS
N063001-014A	3.931	PASS
N063001-014AMS	3.931	PASS
N063001-009A	N.A.	N.A.
N063001-011A	4.015	PASS
N063001-011AMS	4.015	PASS
N063001-007A	4.040	PASS
N063001-007AMS	4.023	PASS
N063001-003A	N.A.	N.A.
N063001-004A	N.A.	N.A.
N063001-009A	4.006	PASS
N063001-005A	3.881	PASS
N063001-005AMS	3.856	PASS
N063001-006A	3.890	PASS
N063001-006AMS	3.873	PASS
N063001-012A	3.856	PASS

Reviewed by:

d/Recha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.040	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.048	
CCV-6	4.040	

Average 4.041

Actual RT Window 3.961 - 4.121

Applied RT Window 3.841 - 4.241

N063001-012AMS	3.848	PASS
N063001-015A	N.A.	N.A.
N063001-015AMS	3.973	PASS
N063001-016A	N.A.	N.A.
N063001-016AMS	4.031	PASS
N063001-017A	N.A.	N.A.
N063001-017AMS	4.031	PASS
N063001-018A	N.A.	N.A.
N063001-018AMS	4.031	PASS
N063001-002A	N.A.	N.A.
N063001-002AMS	4.031	PASS
N063001-013A	4.056	PASS
N063001-013AMS	4.040	PASS
N063001-019A	N.A.	N.A.
N063001-019AMS	4.040	PASS
N063001-010A	4.006	PASS
N063001-010AMS	4.006	PASS
N063001-009AMS	3.998	PASS
N063001-008A	4.048	PASS
N063001-008AMS	4.031	PASS
N063001-008ADUP	N.A.	N.A.
N063001-008AMSD	4.040	PASS

Reviewed by:

d/Recha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/9/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.040	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.048	
CCV-6	4.040	

Average 4.041

Actual RT Window 3.961 - 4.121

Applied RT Window 3.841 - 4.241

N063001-004AMS	3.815	FAIL
N063001-014AMS	3.931	PASS

Reviewed by:

d/Rocha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.040	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.040	
CCV-6	4.040	

Average 4.040
Actual RT Window 3.960 - 4.120
Applied RT Window 3.840 - 4.240

MB-R181444	N.A.	N.A.
LCS-R181444	4.040	PASS
N063001-021A	3.873	PASS
N063001-021AMS	3.856	PASS
N063012-004A	4.040	PASS
N063012-004AMS	4.040	PASS
N063012-004AMSD	4.040	PASS
N063012-002A	4.048	PASS
N063012-002ADUP	4.040	PASS
N063012-002AMS	4.048	PASS
N063012-006A	N.A.	N.A.
N063012-006AMS	4.031	PASS
N063012-007A	N.A.	N.A.
N063012-007AMS	4.031	PASS
N063012-009A	N.A.	N.A.
N063012-009AMS	3.890	PASS
N063012-001A	4.040	PASS
N063012-001AMS	4.040	PASS
N063001-020A	N.A.	N.A.
N063001-020AMS	3.898	PASS
N063010-001A	3.906	PASS
N063010-001AMS	3.873	PASS

Reviewed by:

d/Rocha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-07

Analytical Sequence

Date Analyzed: 2/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	4.040	
CCV-1	4.040	
CCV-2	4.040	
CCV-3	4.040	
CCV-4	4.040	
CCV-5	4.040	
CCV-6	4.040	

Average 4.040
Actual RT Window 3.960 - 4.120
Applied RT Window 3.840 - 4.240

N063010-002A	3.856	PASS
N063010-002AMS	3.873	PASS
N063010-003A	3.865	PASS
N063010-003AMS	3.856	PASS
N063012-003A	4.040	PASS
N063012-003AMS	4.048	PASS
N062966-003A	N.A.	N.A.
N062966-003AMS	4.006	PASS
N063001-003A	N.A.	N.A.
N063001-003AMS	4.006	PASS
N063001-022A	N.A.	N.A.
N063001-022AMS	4.040	PASS
N063012-005A	N.A.	N.A.
N063012-005AMS	4.040	PASS
N063012-008A	N.A.	N.A.
N063012-008AMS	4.040	PASS
N063012-010A	N.A.	N.A.
N063012-010AMS	4.040	PASS
N063012-011A	N.A.	N.A.
N063012-011AMS	4.040	PASS
N063001-021AMS	3.856	PASS

Reviewed by:

d/Rocha 2/25/2024

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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INITIAL CALIBRATION



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NEVADA
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P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 240205A**Instrument ID: IC-07**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	ICV	ICV	1	Hexavalent Chromium	02/05/24 1:21 PM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/05/24 1:30 PM	Reported
11	ICB	ICB	1	Hexavalent Chromium	02/05/24 1:40 PM	Reported
12	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 1:49 PM	Not Reported

Injection Log Summary


Sequence Details

Name:	IC-07_240205A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	06/Feb/24 09:32:43
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	ICV,ICV,1,	9	1000	Unknown		02/05/2024 13:21	Finished	ICV @5ppb, IWST-231228B
10	PQL@0.2ppb,CCV2,	10	1000	Unknown		02/05/2024 13:30	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		02/05/2024 13:40	Finished	ICB R240103B
12	BLANK	12	1000	Unknown		02/05/2024 13:49	Finished	BLANK
13	SHUTDOWN	13	1000	Unknown		02/05/2024 13:59	Finished	
14	Eluent: R240205A	14	1000	Unknown		n.a.	Finished	
15	PCR: R240205B	15	1000	Unknown		n.a.	Finished	

Reviewed by:

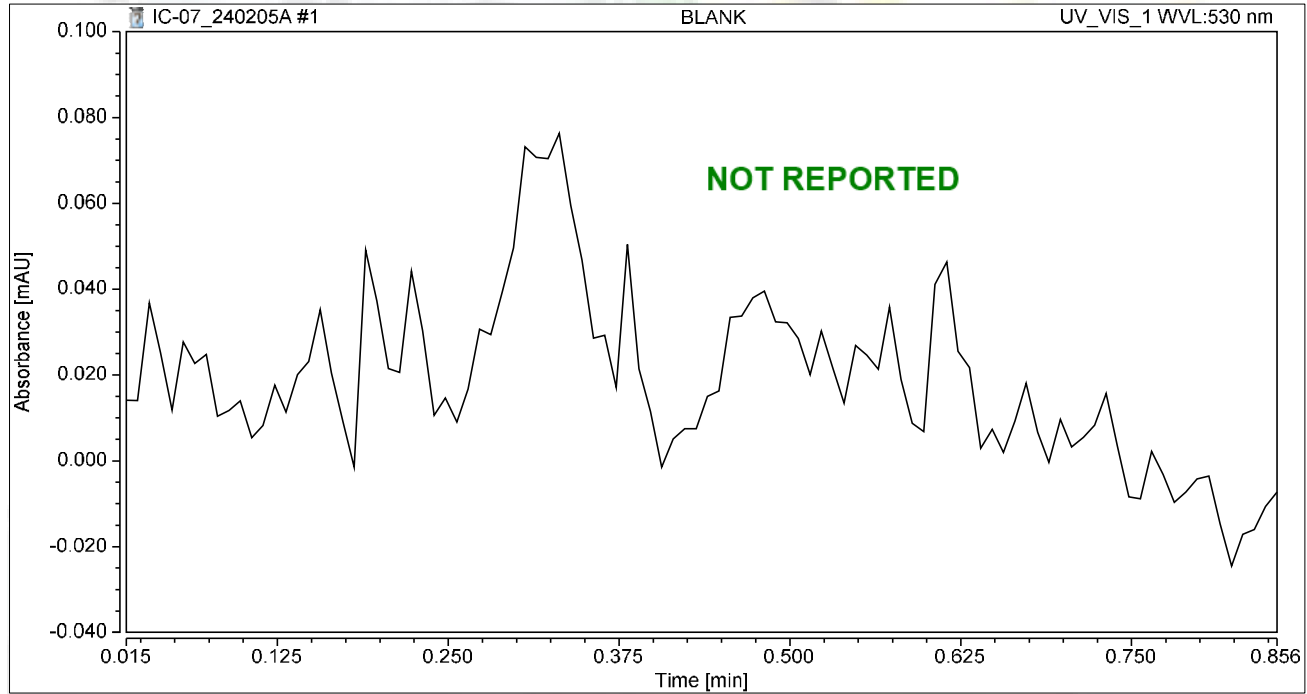
 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.84
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 11:59	Sample Weight:	1.0000

Chromatogram



Integration Results

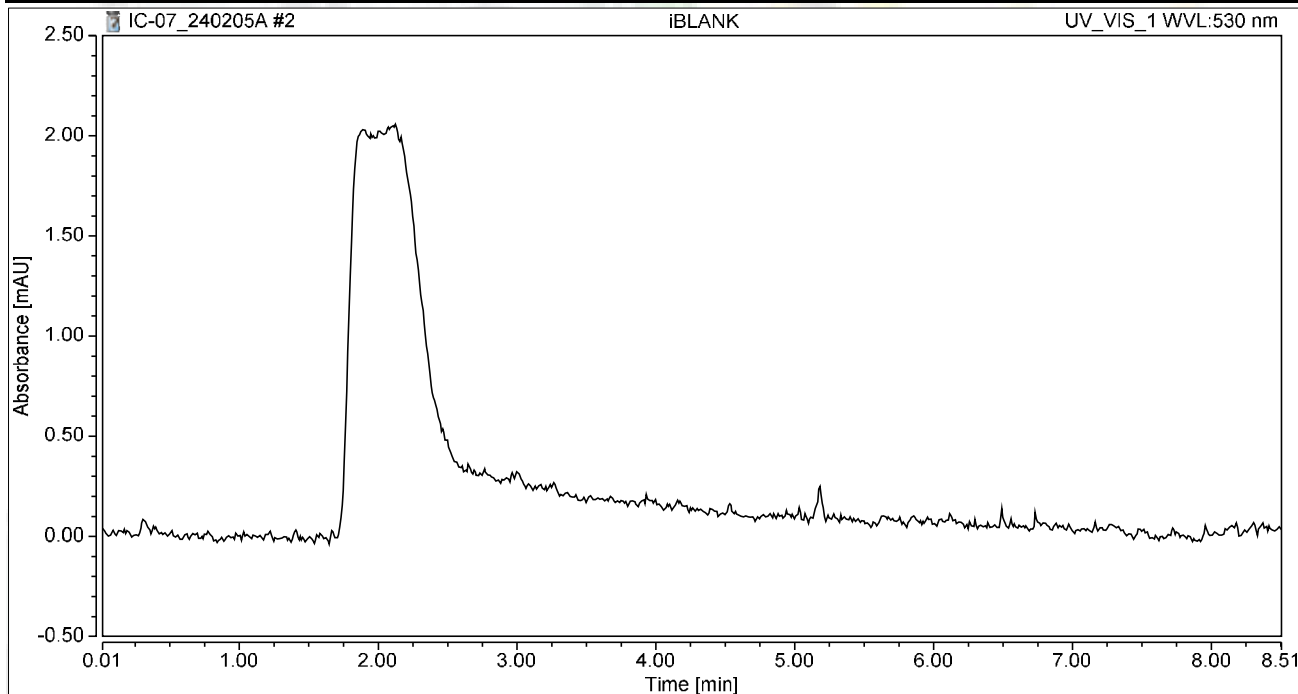
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

jrb

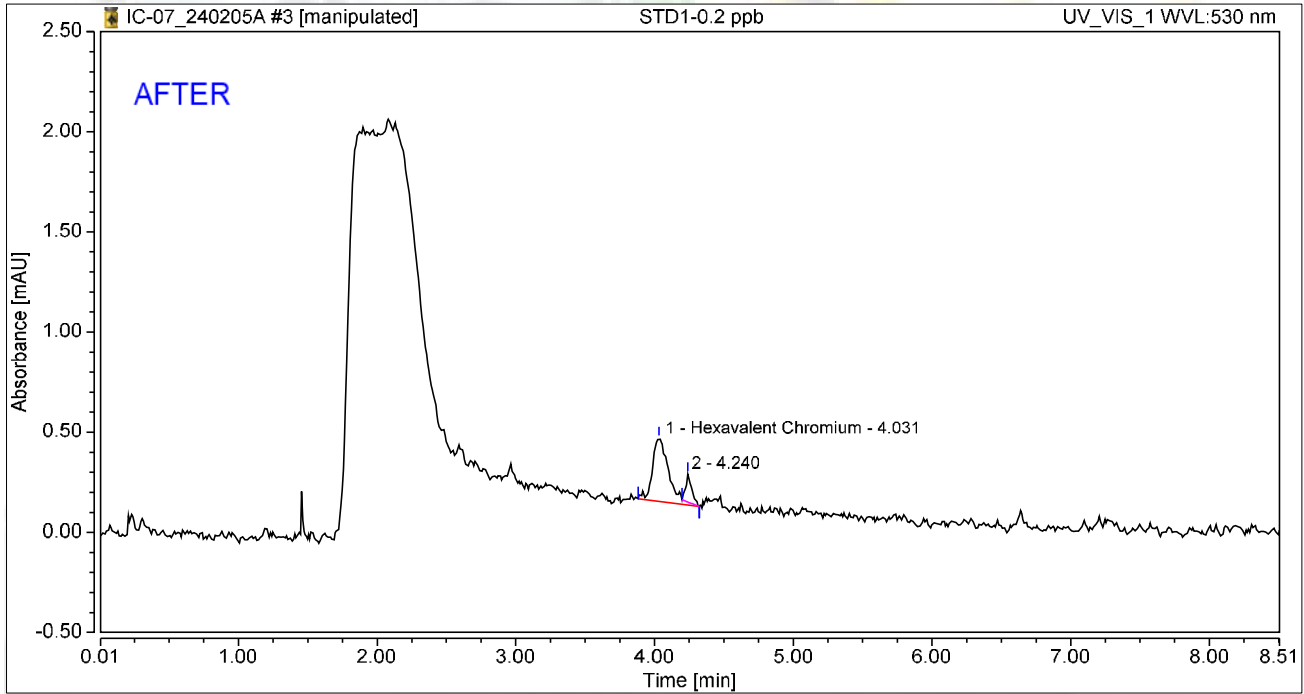
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.043	0.313	85.65	69.19	0.1985
2		4.240	0.007	0.139	14.35	30.81	n.a.
Total:			0.050	0.452	100.00	100.00	

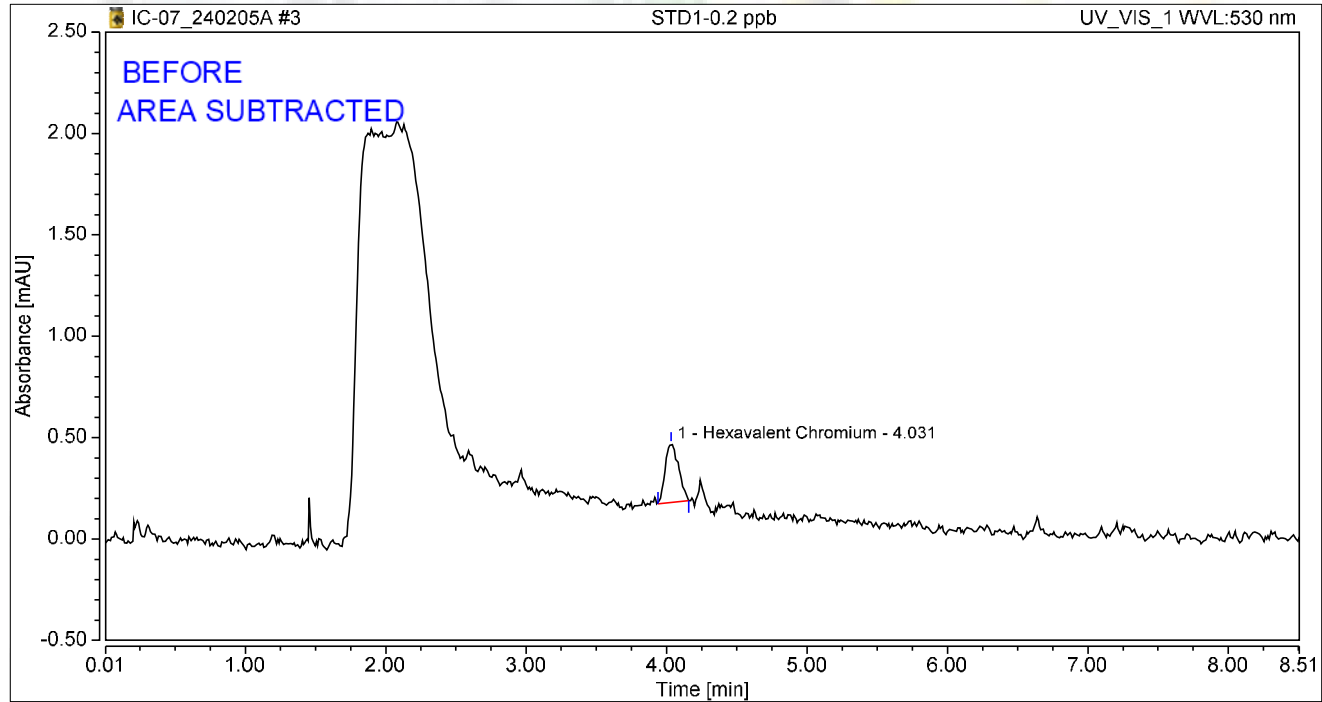
Reviewed by:

JRB 2/19/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD1-0.2 ppb	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	01	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	05/Feb/24 12:19	Sample Weight: 1.0000

Chromatogram



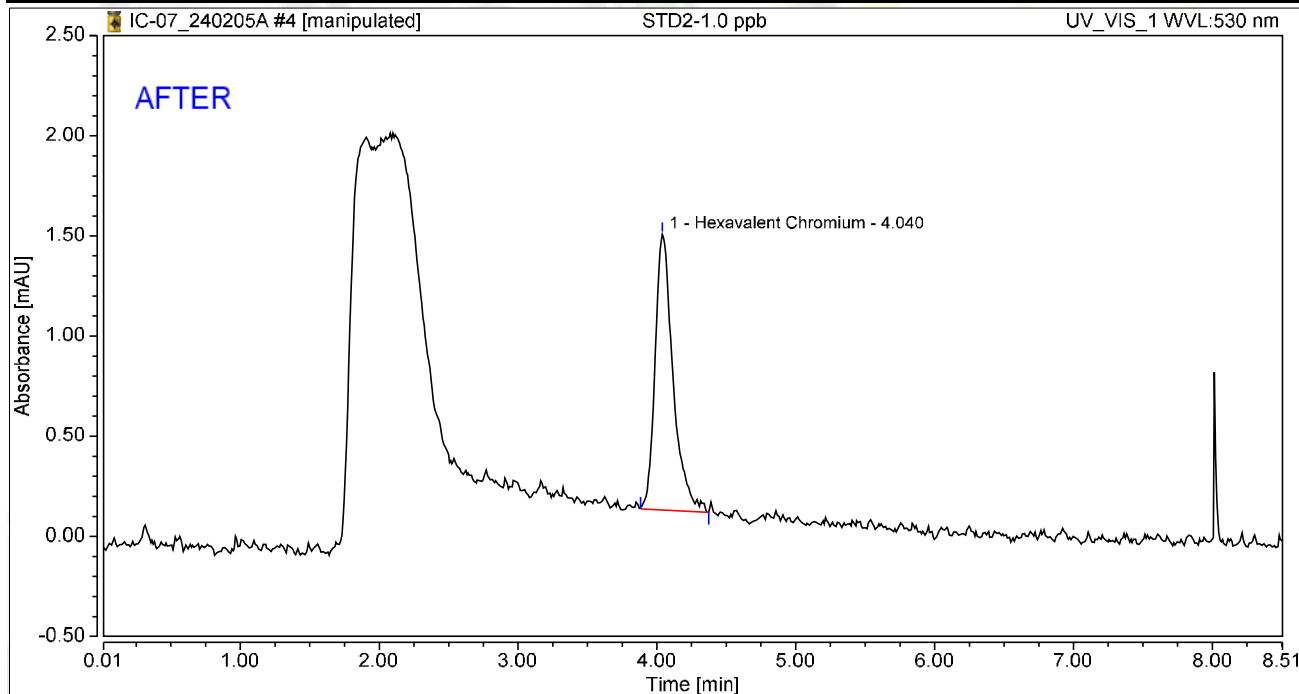
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.032	0.288	100.00	100.00	0.1502
Total:			0.032	0.288	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.206	1.377	100.00	100.00	0.9592
Total:			0.206	1.377	100.00	100.00	

Reviewed by:

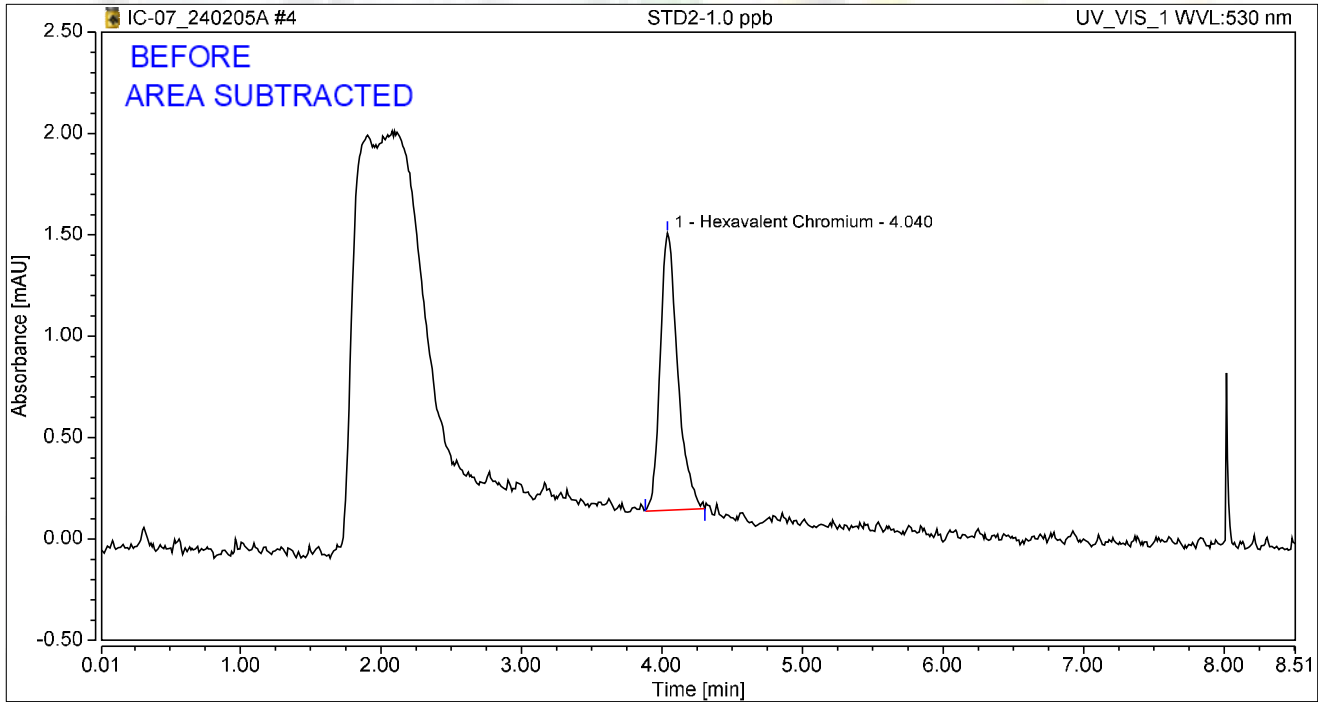
JRB 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:28	Sample Weight:	1.0000

Chromatogram



Integration Results

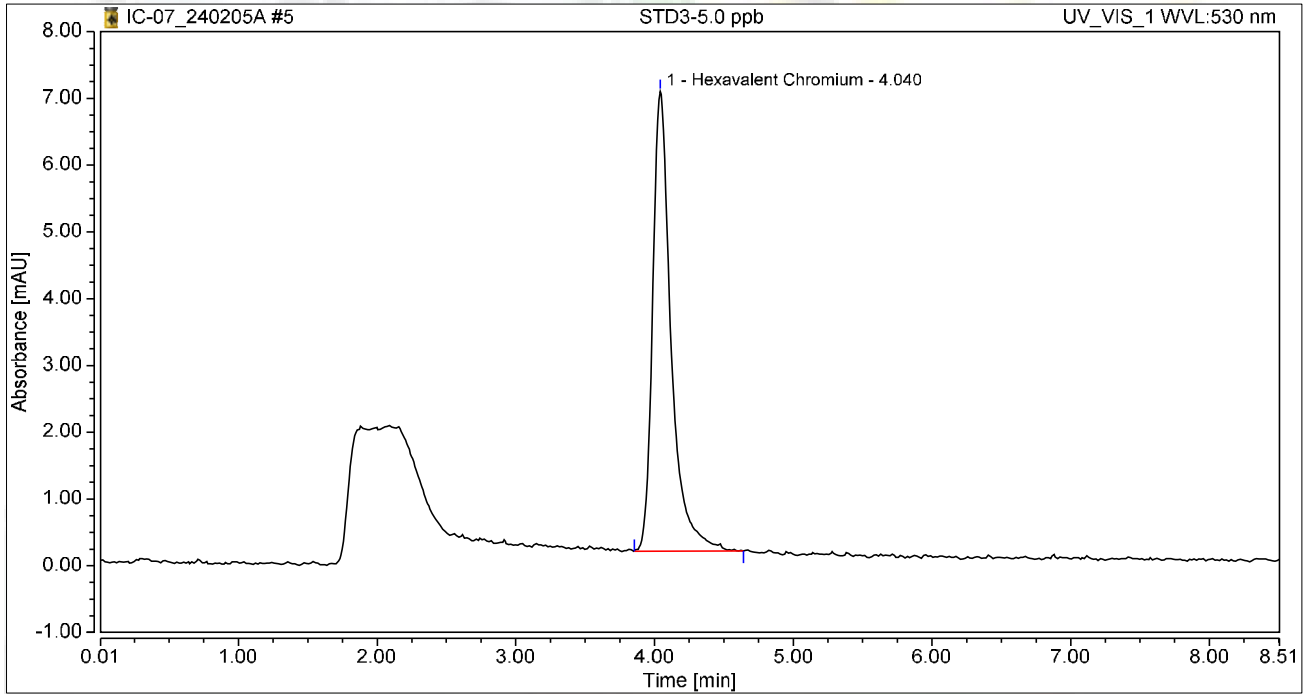
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.198	1.367	100.00	100.00	0.9223
Total:			0.198	1.367	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:38	Sample Weight:	1.0000

Chromatogram



Integration Results

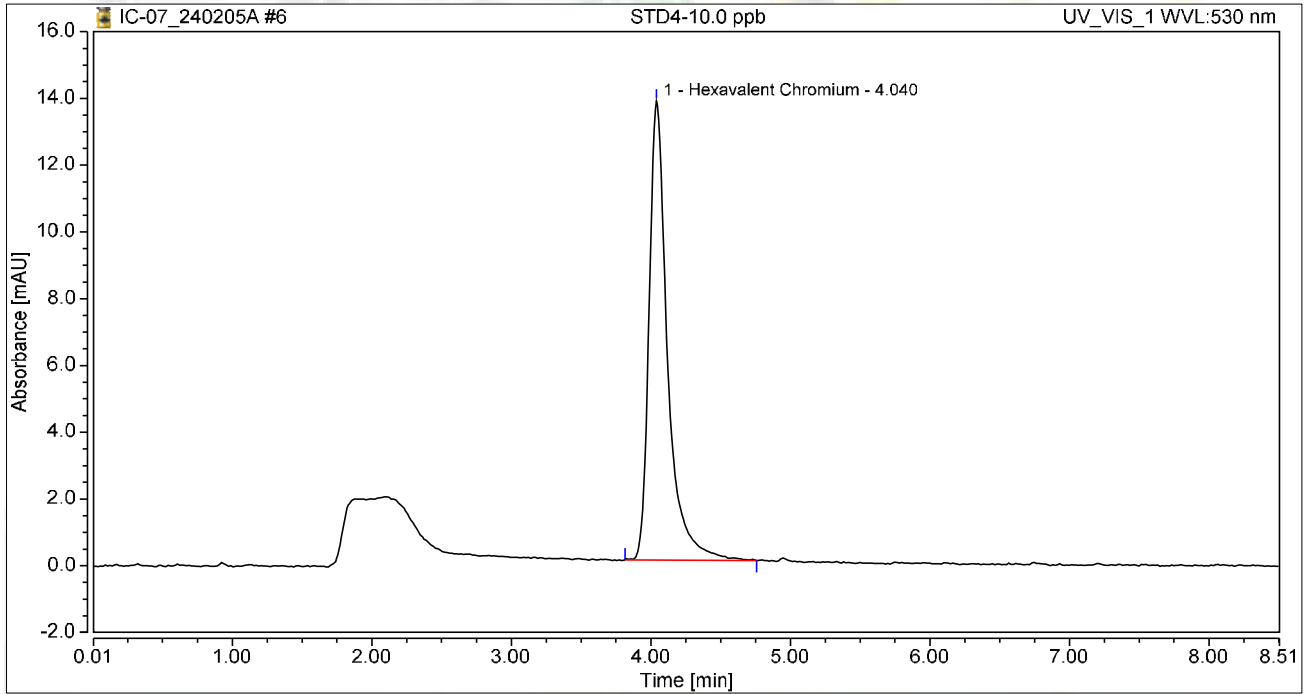
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.064	6.885	100.00	100.00	4.9461
Total:			1.064	6.885	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:47	Sample Weight:	1.0000

Chromatogram



Integration Results

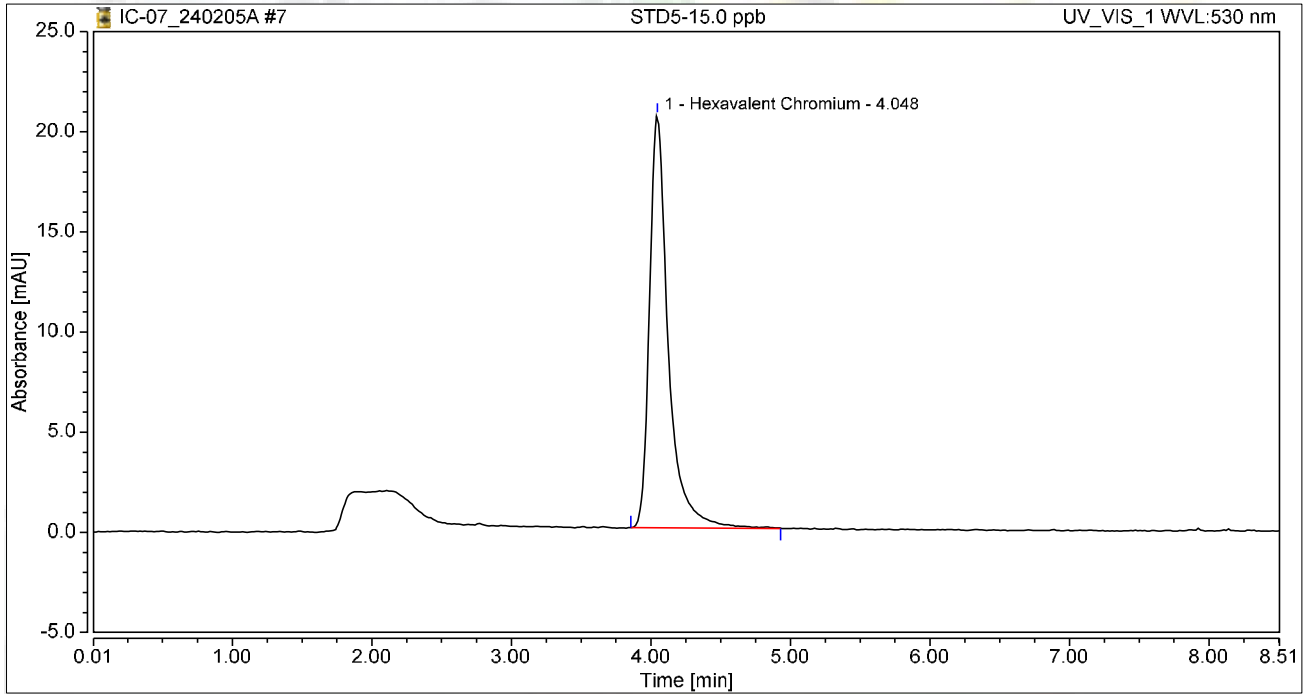
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.116	13.748	100.00	100.00	9.8357
Total:			2.116	13.748	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 12:57	Sample Weight:	1.0000

Chromatogram



Integration Results

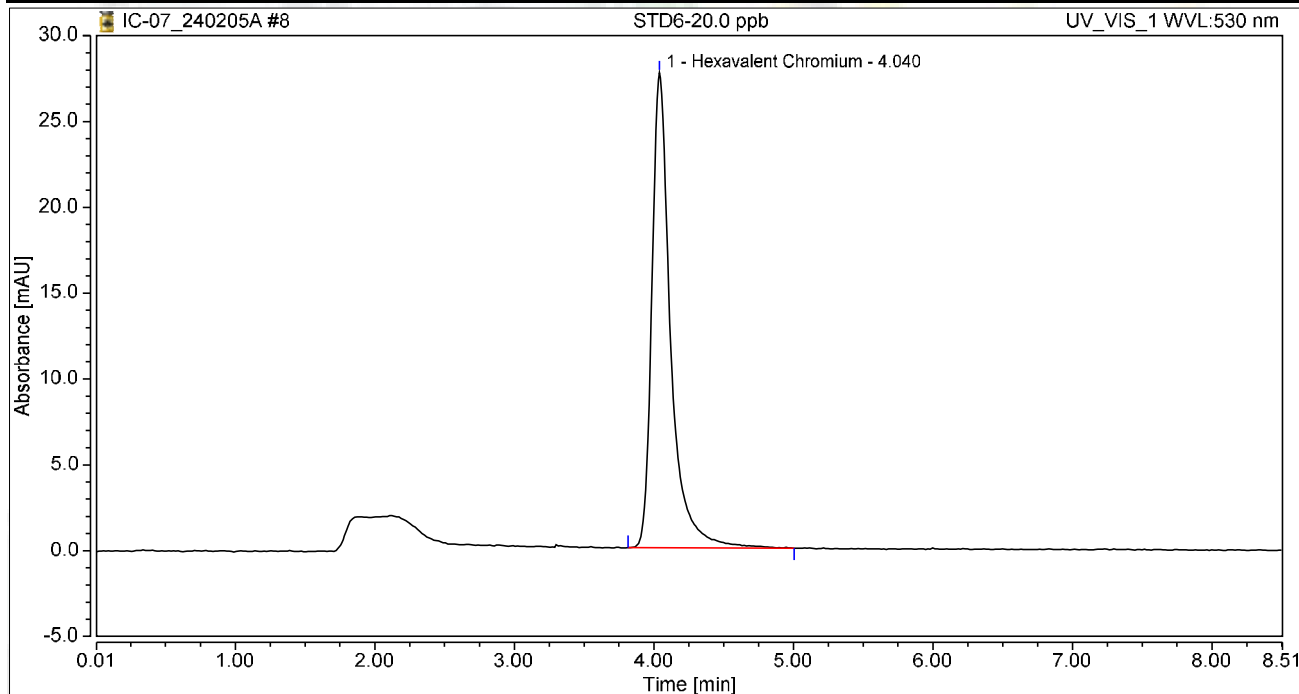
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	3.227	20.605	100.00	100.00	15.0023
Total:			3.227	20.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:08	Sample Weight:	1.0000

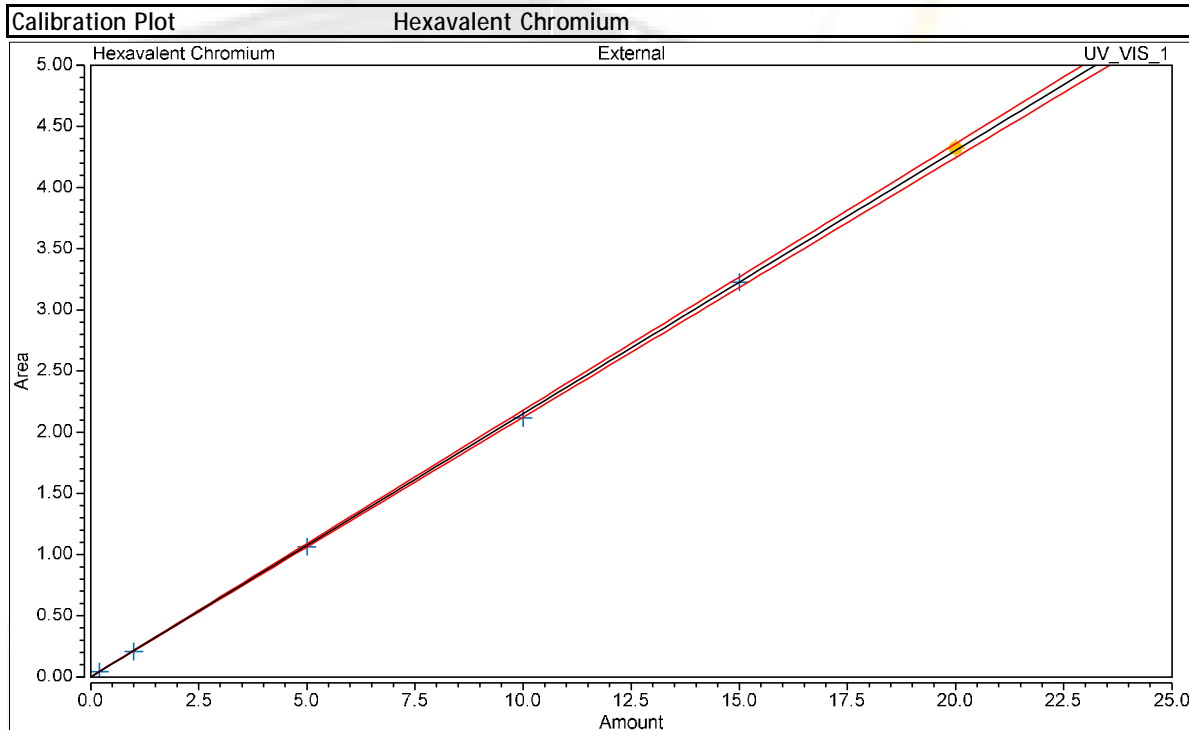
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	4.323	27.676	100.00	100.00	20.0959
Total:			4.323	27.676	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2151
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99987



Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0427	0.043	0.313
4	STD2-1.0 ppb	02	1.0000	0.2063	0.206	1.377
5	STD3-5.0 ppb	03	5.0000	1.0639	1.064	6.885
6	STD4-10.0 ppb	04	10.0000	2.1157	2.116	13.748
7	STD5-15.0 ppb	05	15.0000	3.2270	3.227	20.605
8	STD6-20.0 ppb	06	20.0000	4.3227	4.323	27.676

Reviewed by:

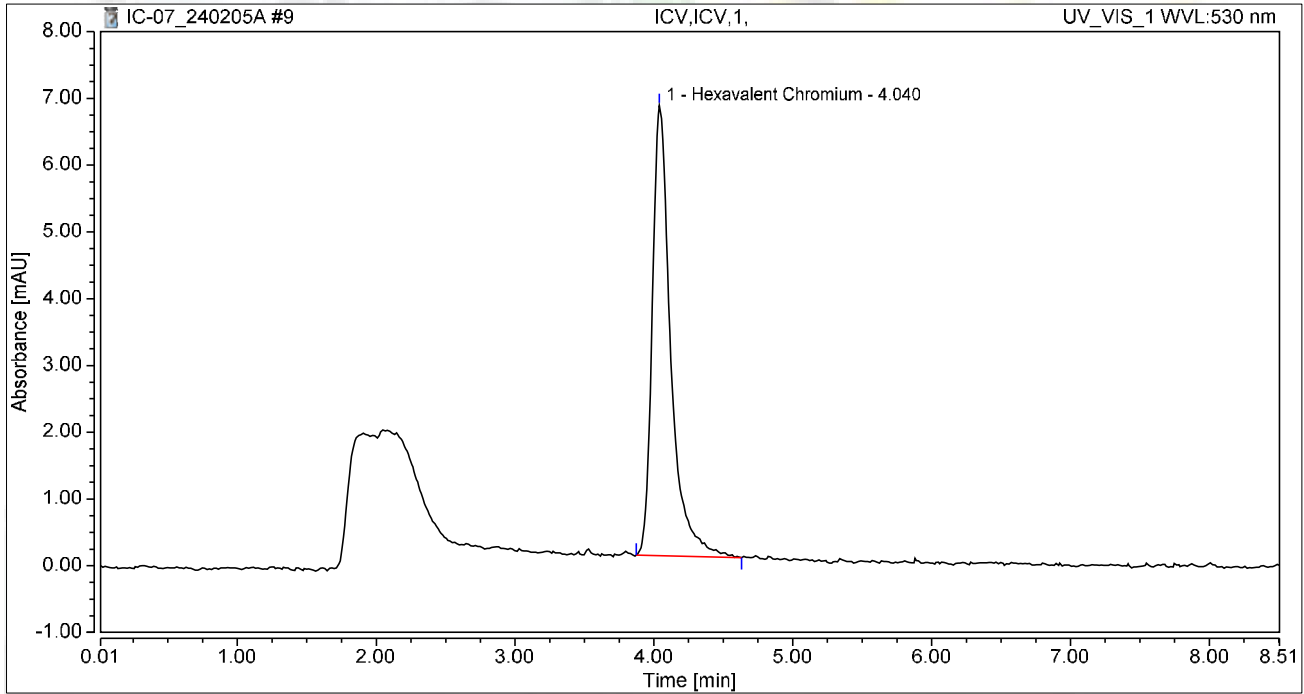
JRB 2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:21	Sample Weight:	1.0000

Chromatogram



Integration Results

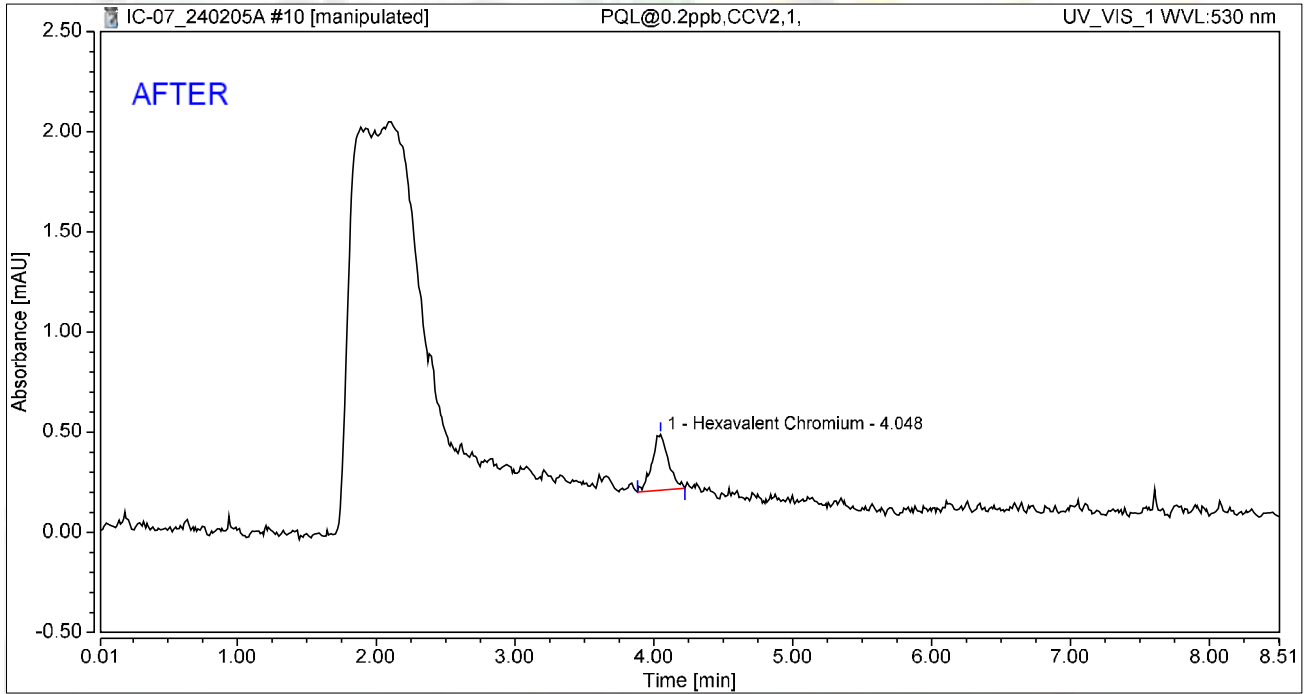
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.040	6.743	100.00	100.00	4.8342
Total:			1.040	6.743	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.039	0.279	100.00	100.00	0.1802
Total:			0.039	0.279	100.00	100.00	

Reviewed by:

jrb

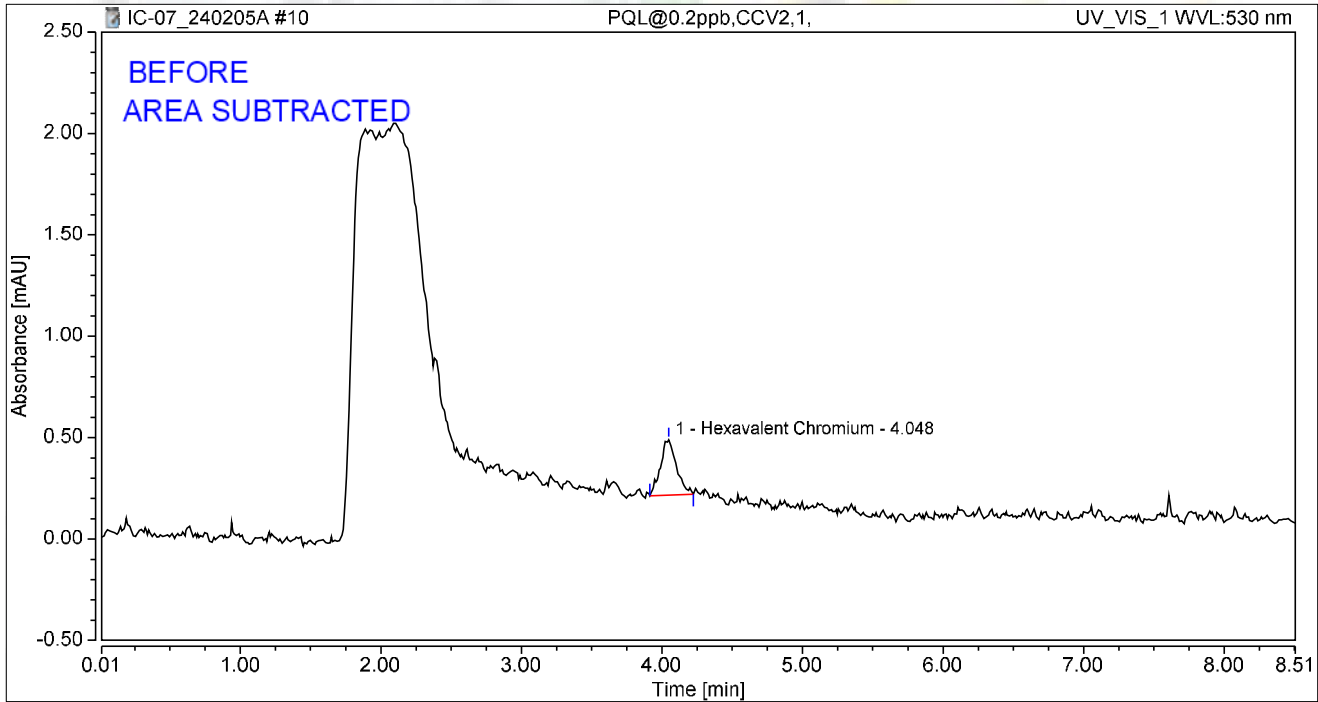
2/19/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

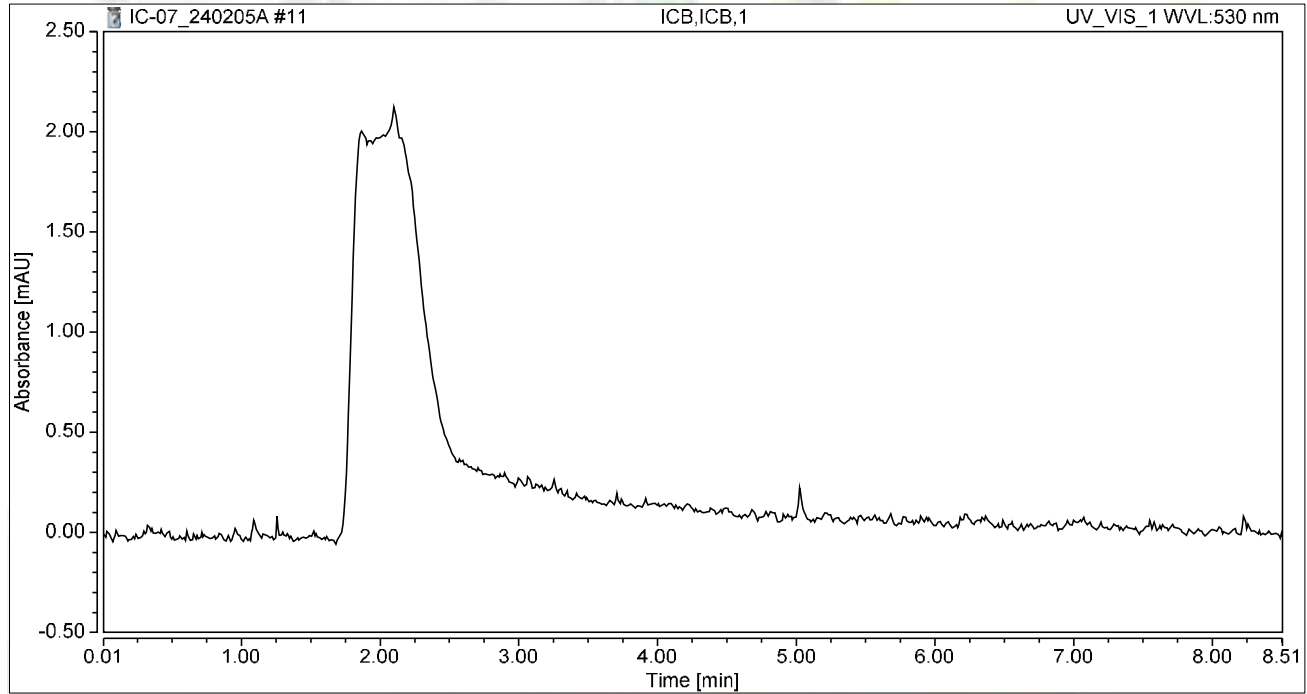
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.036	0.273	100.00	100.00	0.1694
Total:			0.036	0.273	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	05/Feb/24 13:40	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

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RAW DATA



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240208A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/08/24 9:03 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/08/24 9:17 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/08/24 9:27 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/08/24 9:36 AM	Reported
13	MB-R181355	MBLK	1	Hexavalent Chromium	02/08/24 9:46 AM	Reported
14	LCS-R181355	LCS	1	Hexavalent Chromium	02/08/24 9:55 AM	Reported
15	N062966-001A	SAMP	1	Hexavalent Chromium	02/08/24 10:28 AM	Reported
16	N062966-001AMS	MS	1	Hexavalent Chromium	02/08/24 10:40 AM	Reported
17	N062966-001AMSD	MSD	1	Hexavalent Chromium	02/08/24 10:50 AM	Reported
18	N062966-017A	SAMP	50	Hexavalent Chromium	02/08/24 10:59 AM	Reported
19	N062966-017AMS	MS	50	Hexavalent Chromium	02/08/24 11:08 AM	Reported
20	N062966-017AMSD	MSD	50	Hexavalent Chromium	02/08/24 11:18 AM	Reported
21	N062966-014A	SAMP	100	Hexavalent Chromium	02/08/24 11:27 AM	Reported
22	N062966-014AMS	MS	100	Hexavalent Chromium	02/08/24 11:37 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	02/08/24 11:46 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/08/24 11:56 AM	Reported
25	N062966-014ADUP	DUP	100	Hexavalent Chromium	02/08/24 12:24 PM	Reported
26	N062966-005A	SAMP	1	Hexavalent Chromium	02/08/24 12:36 PM	Not Reported
27	N062966-005AMS	MS	1	Hexavalent Chromium	02/08/24 12:46 PM	Not Reported
28	N062966-018A	SAMP	1	Hexavalent Chromium	02/08/24 12:55 PM	Not Reported
29	N062966-018AMS	MS	1	Hexavalent Chromium	02/08/24 1:08 PM	Not Reported
30	N062966-008A	SAMP	5	Hexavalent Chromium	02/08/24 1:18 PM	Reported
31	N062966-008AMS	MS	5	Hexavalent Chromium	02/08/24 1:27 PM	Reported
32	N062966-015A	SAMP	5	Hexavalent Chromium	02/08/24 1:37 PM	Reported
33	N062966-015AMS	MS	5	Hexavalent Chromium	02/08/24 1:46 PM	Reported
34	N062966-005A	SAMP	5	Hexavalent Chromium	02/08/24 1:56 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/08/24 2:05 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/08/24 2:15 PM	Reported
37	N062966-016A	SAMP	5	Hexavalent Chromium	02/08/24 2:29 PM	Reported
38	N062966-016AMS	MS	5	Hexavalent Chromium	02/08/24 2:39 PM	Reported
39	N062966-003A	SAMP	1	Hexavalent Chromium	02/08/24 2:49 PM	Not Reported
40	N062966-003AMS	MS	1	Hexavalent Chromium	02/08/24 2:58 PM	Not Reported
41	N062966-006A	SAMP	1	Hexavalent Chromium	02/08/24 3:08 PM	Reported
42	N062966-006AMS	MS	1	Hexavalent Chromium	02/08/24 3:17 PM	Reported

INJECTION LOG: 240208A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N062966-010A	SAMP	1	Hexavalent Chromium	02/08/24 3:27 PM	Reported
44	N062966-010AMS	MS	1	Hexavalent Chromium	02/08/24 3:36 PM	Reported
45	N062966-012A	SAMP	1	Hexavalent Chromium	02/08/24 3:46 PM	Reported
46	N062966-012AMS	MS	1	Hexavalent Chromium	02/08/24 3:55 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/08/24 4:04 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/08/24 4:14 PM	Reported
49	N062966-013A	SAMP	1	Hexavalent Chromium	02/08/24 4:23 PM	Reported
50	N062966-013AMS	MS	1	Hexavalent Chromium	02/08/24 4:33 PM	Reported
51	N062966-019A	SAMP	1	Hexavalent Chromium	02/08/24 4:42 PM	Reported
52	N062966-019AMS	MS	1	Hexavalent Chromium	02/08/24 4:52 PM	Reported
53	N062966-020A	SAMP	1	Hexavalent Chromium	02/08/24 5:01 PM	Reported
54	N062966-020AMS	MS	1	Hexavalent Chromium	02/08/24 5:11 PM	Reported
55	N062966-009A	SAMP	1	Hexavalent Chromium	02/08/24 5:20 PM	Not Reported
56	N062966-009AMS	MS	1	Hexavalent Chromium	02/08/24 5:30 PM	Not Reported
57	N062966-009A	SAMP	5	Hexavalent Chromium	02/08/24 5:39 PM	Reported
58	N062966-009AMS	MS	5	Hexavalent Chromium	02/08/24 5:48 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/08/24 5:58 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/08/24 6:07 PM	Reported
61	N062966-002A	SAMP	1	Hexavalent Chromium	02/08/24 6:17 PM	Reported
62	N062966-002AMS	MS	1	Hexavalent Chromium	02/08/24 6:26 PM	Reported
63	N062966-004A	SAMP	1	Hexavalent Chromium	02/08/24 6:36 PM	Reported
64	N062966-004AMS	MS	1	Hexavalent Chromium	02/08/24 6:45 PM	Reported
65	N062966-007A	SAMP	1	Hexavalent Chromium	02/08/24 6:55 PM	Reported
66	N062966-007AMS	MS	1	Hexavalent Chromium	02/08/24 7:08 PM	Reported
67	N062966-011A	SAMP	1	Hexavalent Chromium	02/08/24 7:17 PM	Reported
68	N062966-011AMS	MS	1	Hexavalent Chromium	02/08/24 7:26 PM	Reported
69	N062966-005AMS	MS	5	Hexavalent Chromium	02/08/24 7:36 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	02/08/24 7:45 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	02/08/24 7:55 PM	Reported
72	N062966-018AMS	MS	5	Hexavalent Chromium	02/08/24 8:04 PM	Reported
73	N062966-018A	SAMP	5	Hexavalent Chromium	02/08/24 8:14 PM	Reported
74	CCV-7	CCV	1	Hexavalent Chromium	02/08/24 8:23 PM	Reported
75	CCB-7	CCB	1	Hexavalent Chromium	02/08/24 8:33 PM	Reported
76	BLANK	BLANK	1	Hexavalent Chromium	02/08/24 8:42 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240208A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	09/Feb/24 13:27:55
No. of Injections:	79	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/08/2024 09:03	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/08/2024 09:17	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/08/2024 09:27	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/08/2024 09:36	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/08/2024 09:46	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/08/2024 09:55	Finished	LCS @5ppb, IWST-231228B
15	N062966-001A,SAMP	1	1000	Unknown		02/08/2024 10:28	Finished	SAMP,10 mL
16	N062966-001AMS,MS	2	1000	Unknown		02/08/2024 10:40	Finished	MS (1ppb), IWST-231228B,10r
17	N062966-001AMSD,MS	3	1000	Unknown		02/08/2024 10:50	Finished	MSD (1ppb), IWST-231228B,10r
18	N062966-017A,SAMP	4	1000	Unknown		02/08/2024 10:59	Finished	SAMP,0.2>10 mL
19	N062966-017AMS,MS	5	1000	Unknown		02/08/2024 11:08	Finished	MS (5ppb), IWST-231228B,0.2
20	N062966-017AMSD,MS	6	1000	Unknown		02/08/2024 11:18	Finished	MSD (5ppb), IWST-231228B,0.2
21	N062966-014A,SAMP	7	1000	Unknown		02/08/2024 11:27	Finished	SAMP,0.1>10 mL
22	N062966-014AMS,MS	8	1000	Unknown		02/08/2024 11:37	Finished	MS (5ppb), IWST-231228B,0.1
23	CCV-2,CCV1,1,	9	1000	Unknown		02/08/2024 11:46	Finished	CCV @ 10ppb, IWST-231228A
24	CCB-2,CCB,1,	10	1000	Unknown		02/08/2024 11:56	Finished	CCB R240103B
25	N062966-014ADUP,D	1	1000	Unknown		02/08/2024 12:24	Finished	DUP,0.1>10 mL
26	N062966-005A,SAMP	2	1000	Unknown		02/08/2024 12:36	Finished	SAMP,10 mL
27	N062966-005AMS,MS	3	1000	Unknown		02/08/2024 12:46	Finished	MS (5ppb), IWST-231228B,10r
28	N062966-018A,SAMP	4	1000	Unknown		02/08/2024 12:55	Finished	SAMP,10 mL
29	N062966-018AMS,MS	5	1000	Unknown		02/08/2024 13:08	Finished	MS (5ppb), IWST-231228B,10r
30	N062966-008A,SAMP	6	1000	Unknown		02/08/2024 13:18	Finished	SAMP,2>10 mL
31	N062966-008AMS,MS	7	1000	Unknown		02/08/2024 13:27	Finished	MS (5ppb), IWST-231228B,2>10
32	N062966-015A,SAMP	8	1000	Unknown		02/08/2024 13:37	Finished	SAMP,2>10 mL
33	N062966-015AMS,MS	9	1000	Unknown		02/08/2024 13:46	Finished	MS (5ppb), IWST-231228B,2>10
34	N062966-005A,SAMP	10	1000	Unknown		02/08/2024 13:56	Finished	SAMP,2>10 mL
35	CCV-3,CCV,1,	11	1000	Unknown		02/08/2024 14:05	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	12	1000	Unknown		02/08/2024 14:15	Finished	CCB R240103B
37	N062966-016A,SAMP	1	1000	Unknown		02/08/2024 14:29	Finished	SAMP,2>10 mL
38	N062966-016AMS,MS	2	1000	Unknown		02/08/2024 14:39	Finished	MS (5ppb), IWST-231228B,2>10
39	N062966-003A,SAMP	3	1000	Unknown		02/08/2024 14:49	Finished	SAMP,10 mL
40	N062966-003AMS,MS	4	1000	Unknown		02/08/2024 14:58	Finished	MS (1ppb), IWST-231228B,10r
41	N062966-006A,SAMP	5	1000	Unknown		02/08/2024 15:08	Finished	SAMP,10 mL
42	N062966-006AMS,MS	6	1000	Unknown		02/08/2024 15:17	Finished	MS (1ppb), IWST-231228B,10r
43	N062966-010A,SAMP	7	1000	Unknown		02/08/2024 15:27	Finished	SAMP,10 mL
44	N062966-010AMS,MS	8	1000	Unknown		02/08/2024 15:36	Finished	MS (1ppb), IWST-231228B,10r
45	N062966-012A,SAMP	9	1000	Unknown		02/08/2024 15:46	Finished	SAMP,10 mL
46	N062966-012AMS,MS	10	1000	Unknown		02/08/2024 15:55	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV1,1,	11	1000	Unknown		02/08/2024 16:04	Finished	CCV @ 10ppb, IWST-231228A
48	CCB-4,CCB,1,	12	1000	Unknown		02/08/2024 16:14	Finished	CCB R240103B
49	N062966-013A,SAMP	13	1000	Unknown		02/08/2024 16:23	Finished	SAMP,10 mL
50	N062966-013AMS,MS	14	1000	Unknown		02/08/2024 16:33	Finished	MS (1ppb), IWST-231228B,10r
51	N062966-019A,SAMP	15	1000	Unknown		02/08/2024 16:42	Finished	SAMP,10 mL
52	N062966-019AMS,MS	16	1000	Unknown		02/08/2024 16:52	Finished	MS (1ppb), IWST-231228B,10r
53	N062966-020A,SAMP	17	1000	Unknown		02/08/2024 17:01	Finished	SAMP,10 mL
54	N062966-020AMS,MS	18	1000	Unknown		02/08/2024 17:11	Finished	MS (1ppb), IWST-231228B,10r
55	N062966-009A,SAMP	19	1000	Unknown		02/08/2024 17:20	Finished	SAMP,10 mL
56	N062966-009AMS,MS	20	1000	Unknown		02/08/2024 17:30	Finished	MS (1ppb), IWST-231228B,10r
57	N062966-009A,SAMP	21	1000	Unknown		02/08/2024 17:39	Finished	SAMP,2>10 mL
58	N062966-009AMS,MS	22	1000	Unknown		02/08/2024 17:48	Finished	MS (1ppb), IWST-231228B,2>10
59	CCV-5,CCV,1,	23	1000	Unknown		02/08/2024 17:58	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	24	1000	Unknown		02/08/2024 18:07	Finished	CCB R240103B

61	N062966-002A,SAMP	25	1000	Unknown	02/08/2024 18:17	Finished	SAMP,10 mL
62	N062966-002AMS,MS	26	1000	Unknown	02/08/2024 18:26	Finished	MS (1ppb), IWST-231228B,10r
63	N062966-004A,SAMP	27	1000	Unknown	02/08/2024 18:36	Finished	SAMP,10 mL
64	N062966-004AMS,MS	28	1000	Unknown	02/08/2024 18:45	Finished	MS (1ppb), IWST-231228B,10r
65	N062966-007A,SAMP	29	1000	Unknown	02/08/2024 18:55	Finished	SAMP,10 mL
66	N062966-007AMS,MS	30	1000	Unknown	02/08/2024 19:08	Finished	MS (1ppb), IWST-231228B,10r
67	N062966-011A,SAMP	31	1000	Unknown	02/08/2024 19:17	Finished	SAMP,10 mL
68	N062966-011AMS,MS	32	1000	Unknown	02/08/2024 19:26	Finished	MS (1ppb), IWST-231228B,10r
69	N062966-005AMS,MS	33	1000	Unknown	02/08/2024 19:36	Finished	MS (1ppb), IWST-231228B,2>1
70	CCV-6,CCV1,1,	34	1000	Unknown	02/08/2024 19:45	Finished	CCV @ 10ppb, IWST-231228A
71	CCB-6,CCB,1,	35	1000	Unknown	02/08/2024 19:55	Finished	CCB R240103B
72	N062966-018AMS,MS	36	1000	Unknown	02/08/2024 20:04	Finished	MS (5ppb), IWST-231228B,2>1
73	N062966-018A,SAMP	37	1000	Unknown	02/08/2024 20:14	Finished	SAMP,2>10 mL
74	CCV-7,CCV,1,	38	1000	Unknown	02/08/2024 20:23	Finished	CCV @ 5ppb, IWST-231228A
75	CCB-7,CCB,1,	39	1000	Unknown	02/08/2024 20:33	Finished	CCB R240103B
76	BLANK	40	1000	Unknown	02/08/2024 20:42	Finished	BLANK
77	SHUTDOWN	41	1000	Unknown	02/08/2024 20:52	Finished	
78	Eluent: R240205A	42	1000	Unknown	n.a.	Finished	
79	PCR: R240205B	43	1000	Unknown	n.a.	Finished	

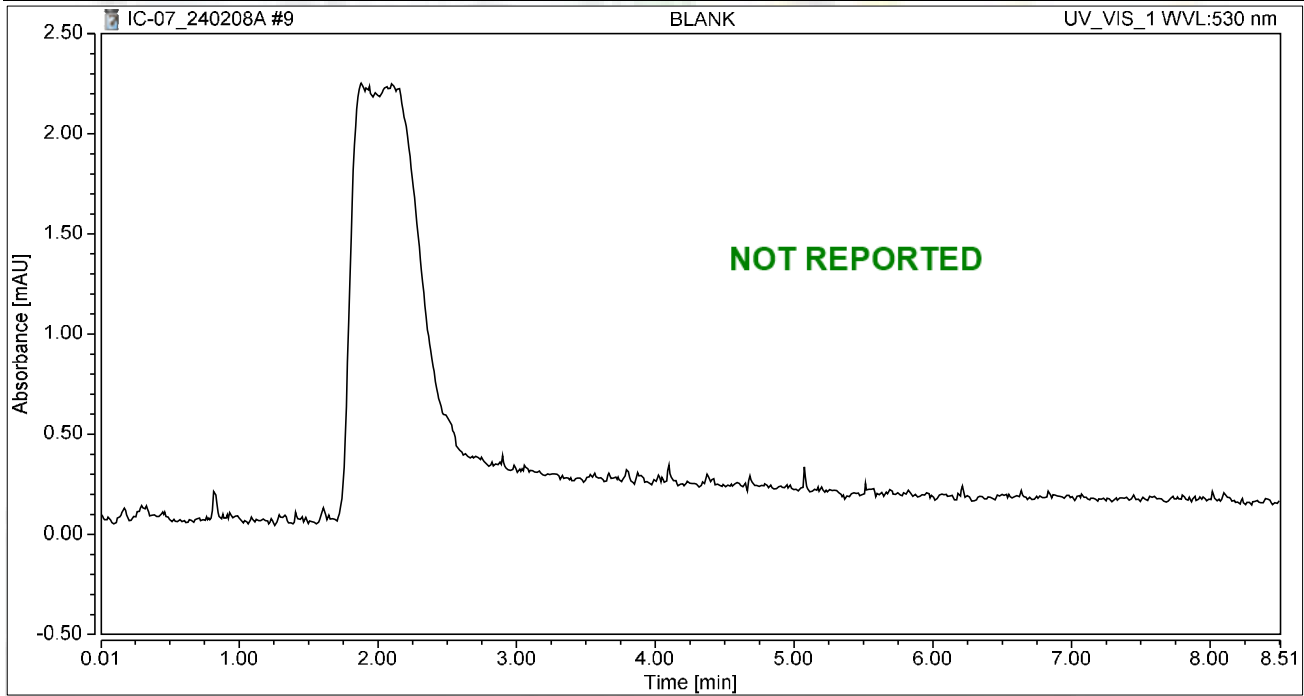


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 09:03	Sample Weight:	1.0000

Chromatogram



Integration Results

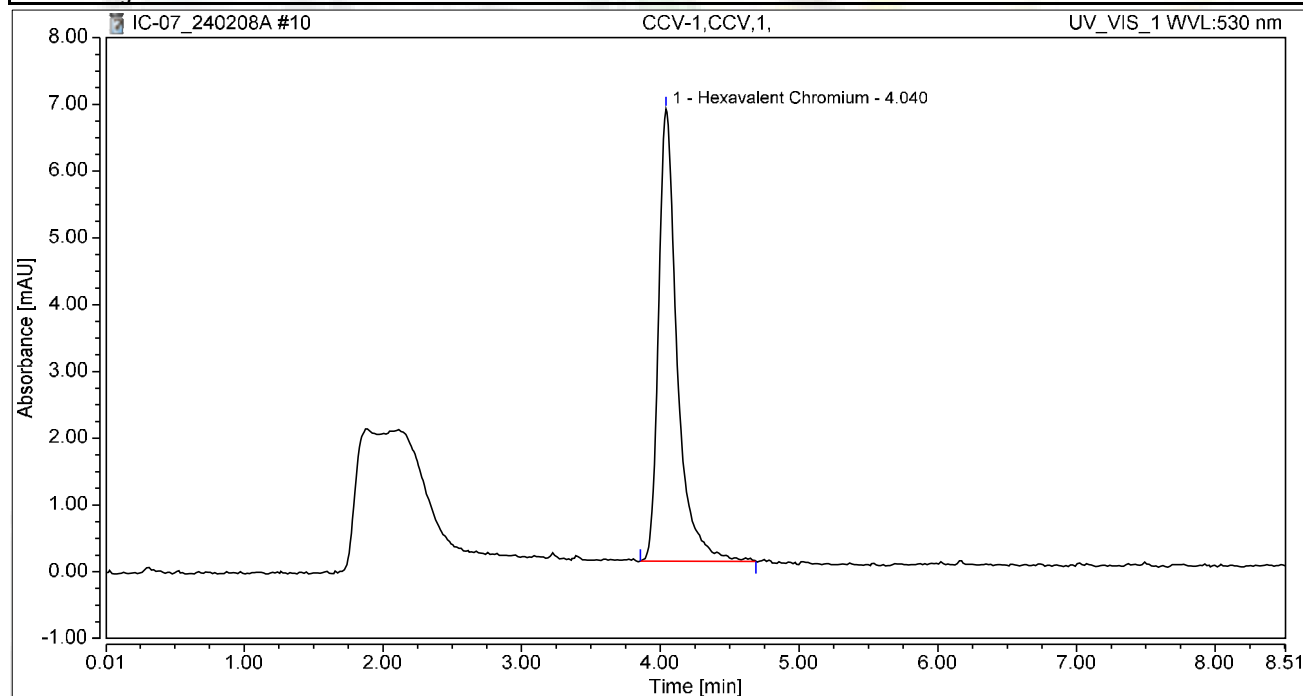
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 09:17	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.055	6.775	100.00	100.00	4.9060
Total:			1.055	6.775	100.00	100.00	

Reviewed by:

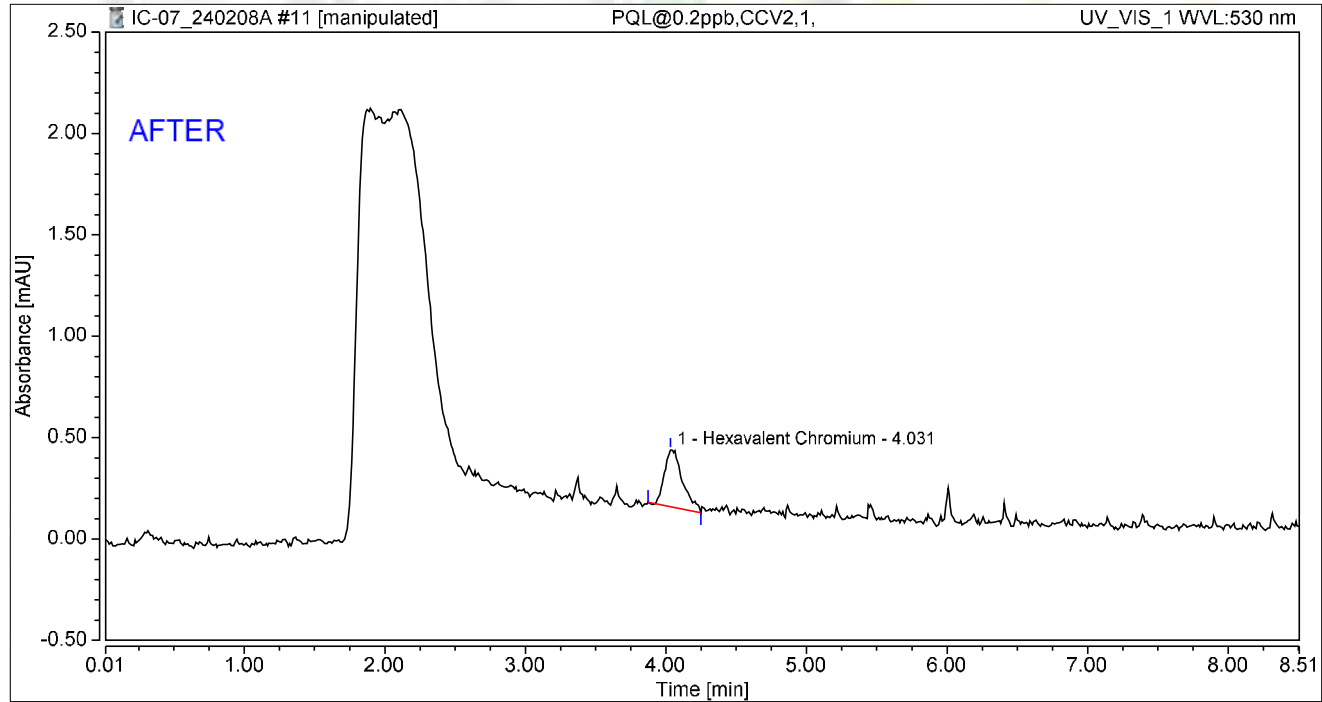
jrb

2/20/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 09:27	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.042	0.279	100.00	100.00	0.1944
Total:			0.042	0.279	100.00	100.00	

Reviewed by:

jrb

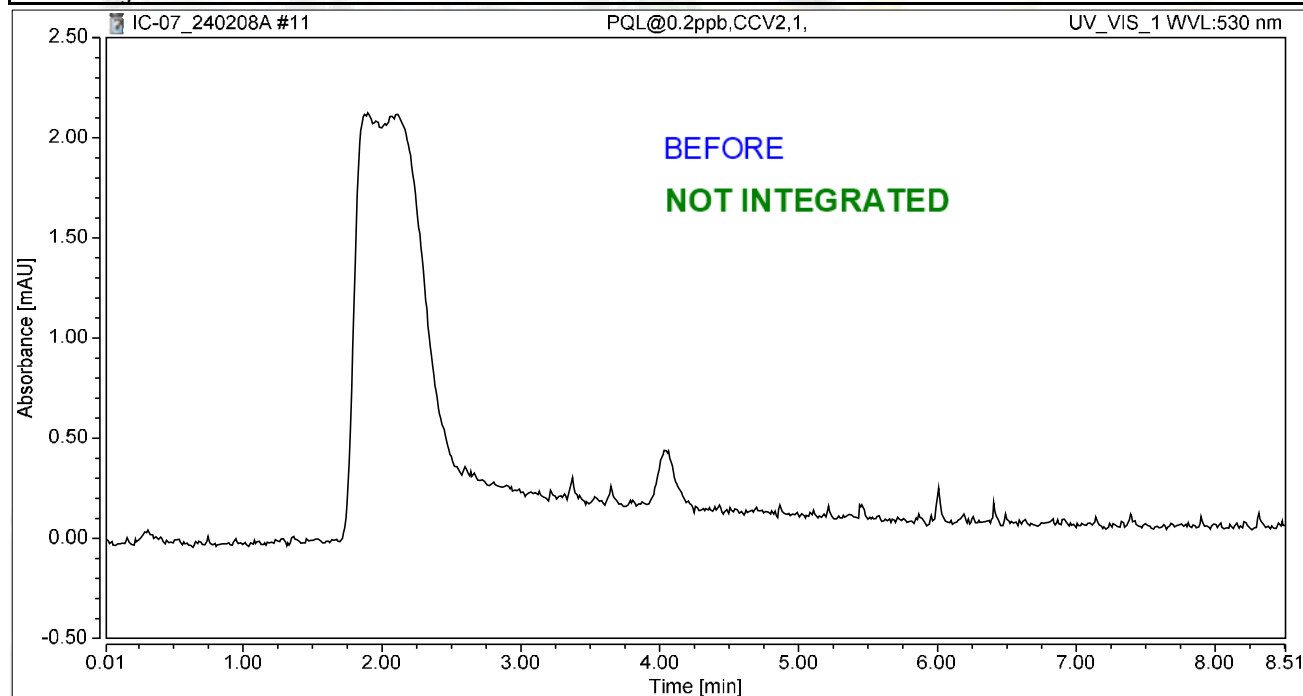
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 09:27	Sample Weight:	1.0000

Chromatogram



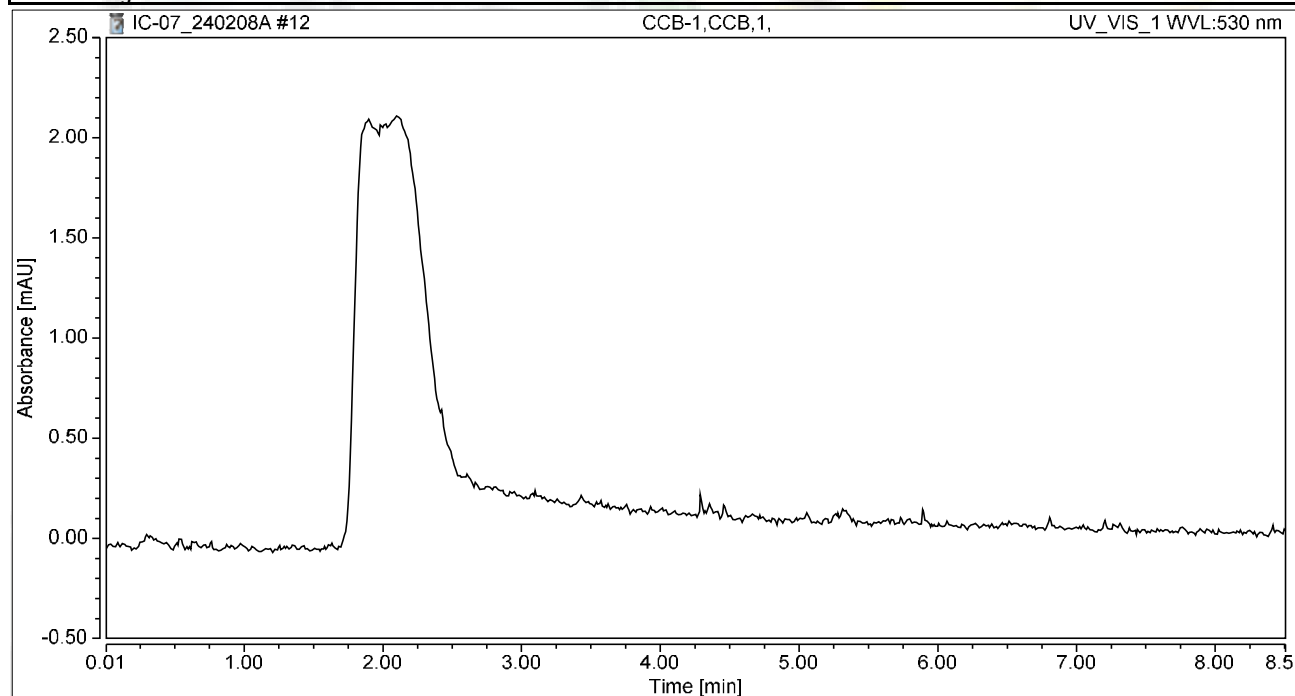
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-1,CCB,1,	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 09:36	Sample Weight: 1.0000

Chromatogram



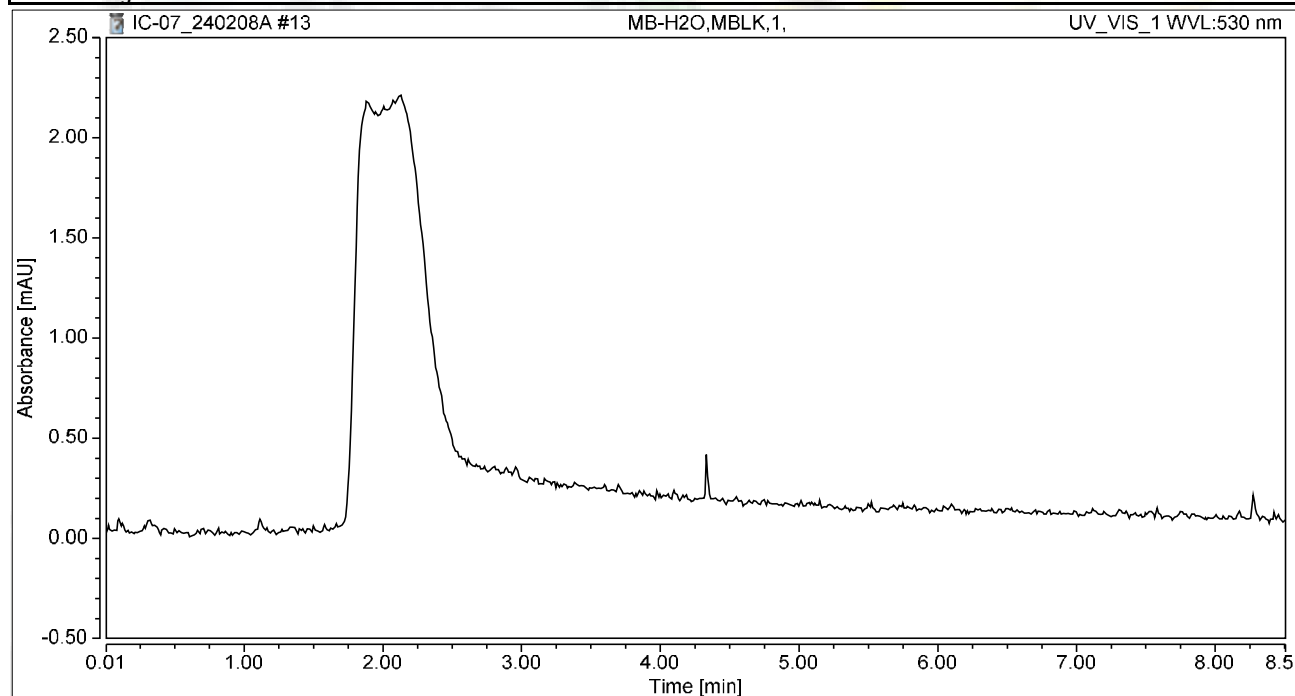
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

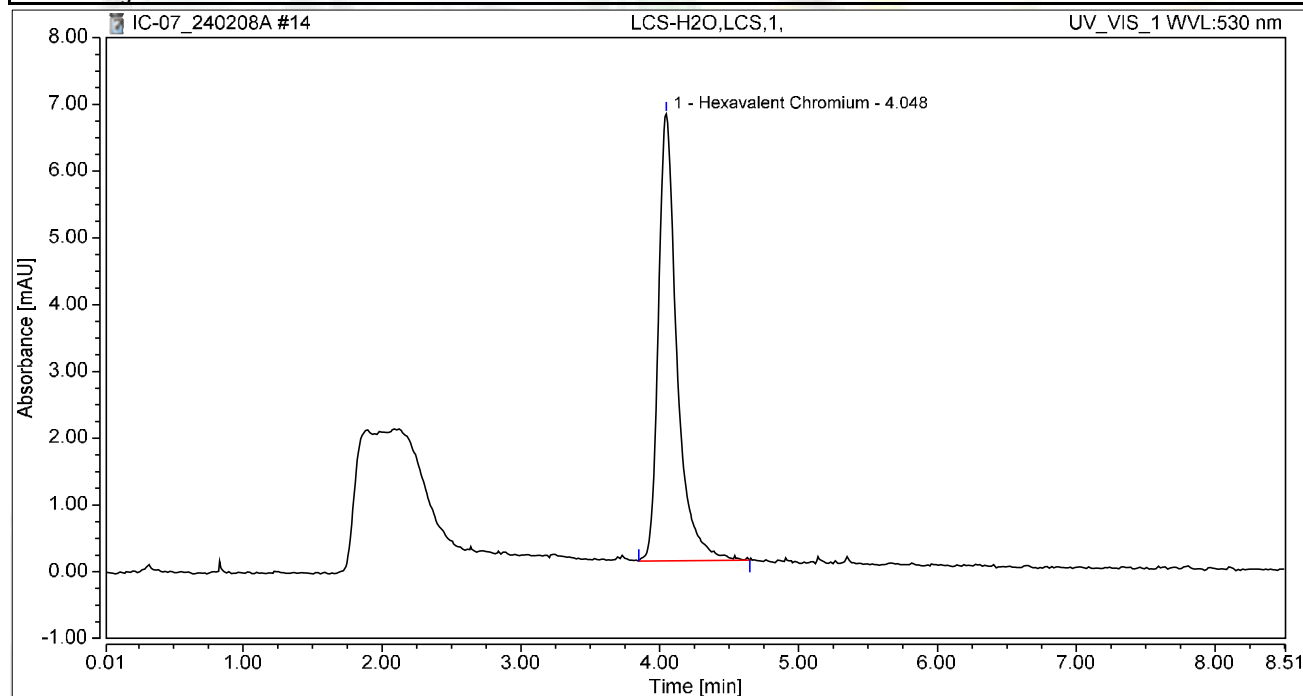
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 09:55	Sample Weight:	1.0000

Chromatogram



Integration Results

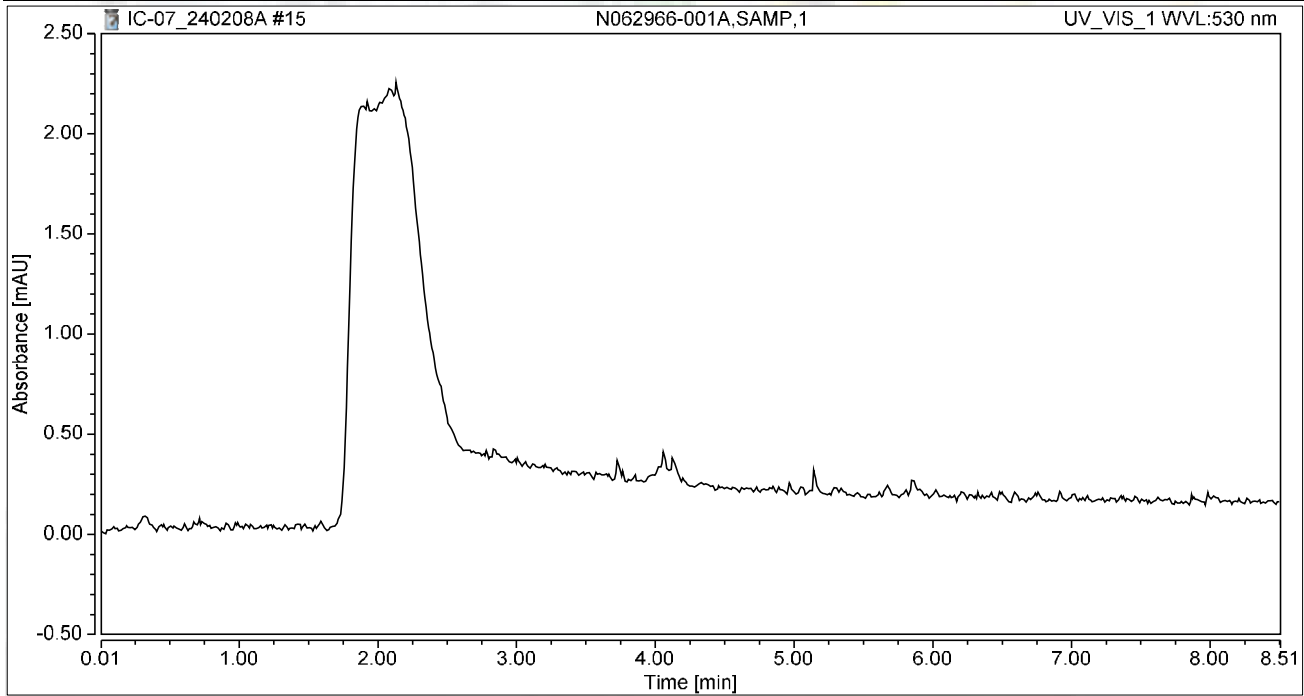
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.037	6.694	100.00	100.00	4.8195
Total:			1.037	6.694	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 10:28	Sample Weight:	1.0000

Chromatogram



Integration Results

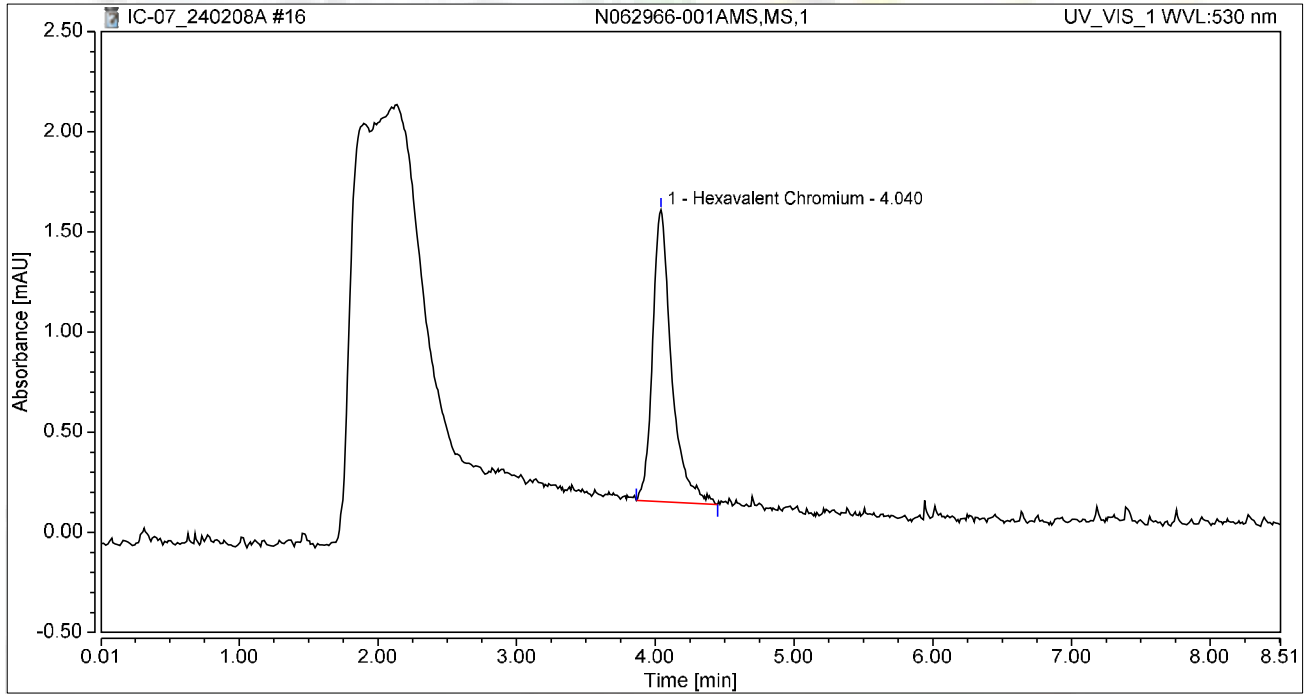
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 10:40	Sample Weight:	1.0000

Chromatogram



Integration Results

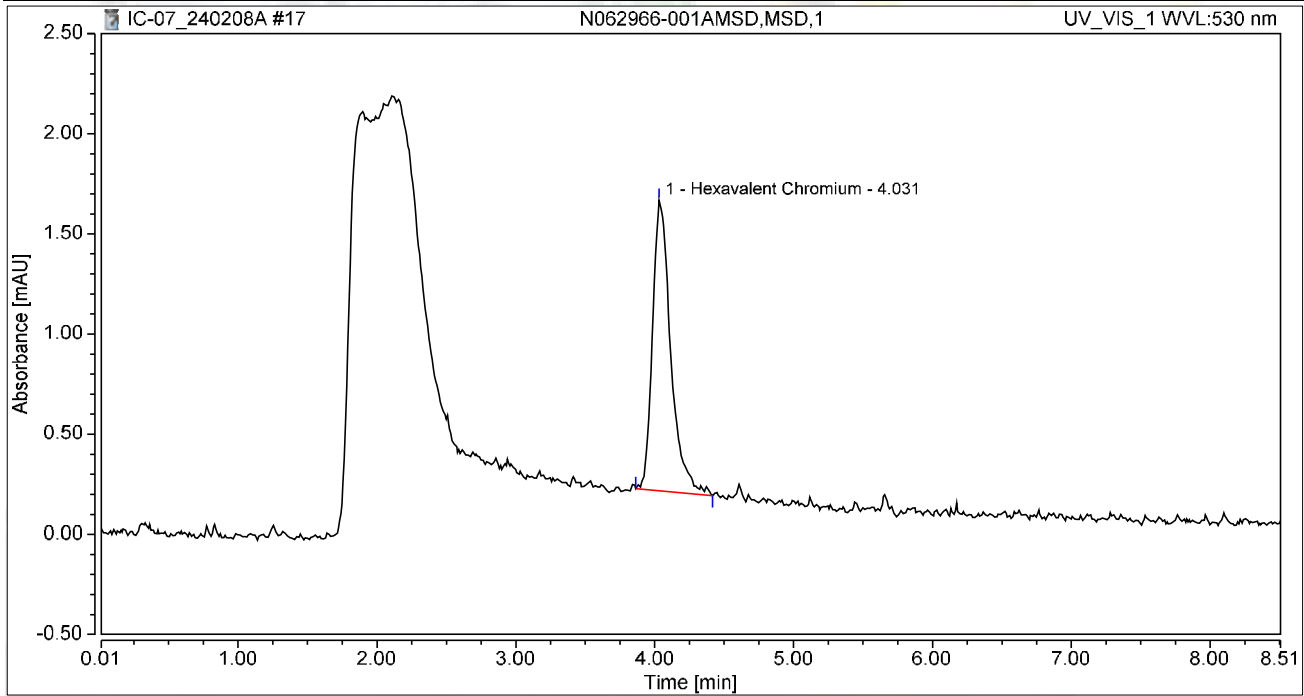
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.231	1.457	100.00	100.00	1.0760
Total:			0.231	1.457	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-001AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

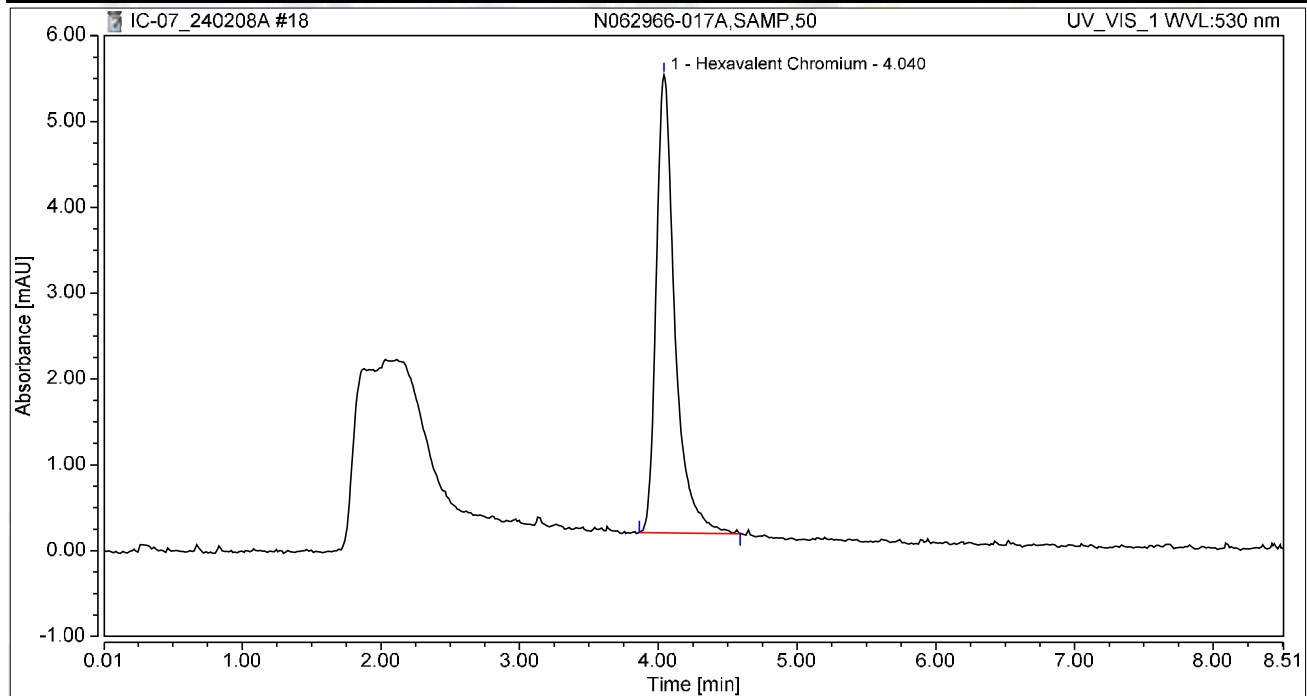
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.220	1.451	100.00	100.00	1.0249
Total:			0.220	1.451	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-017A,SAMP,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

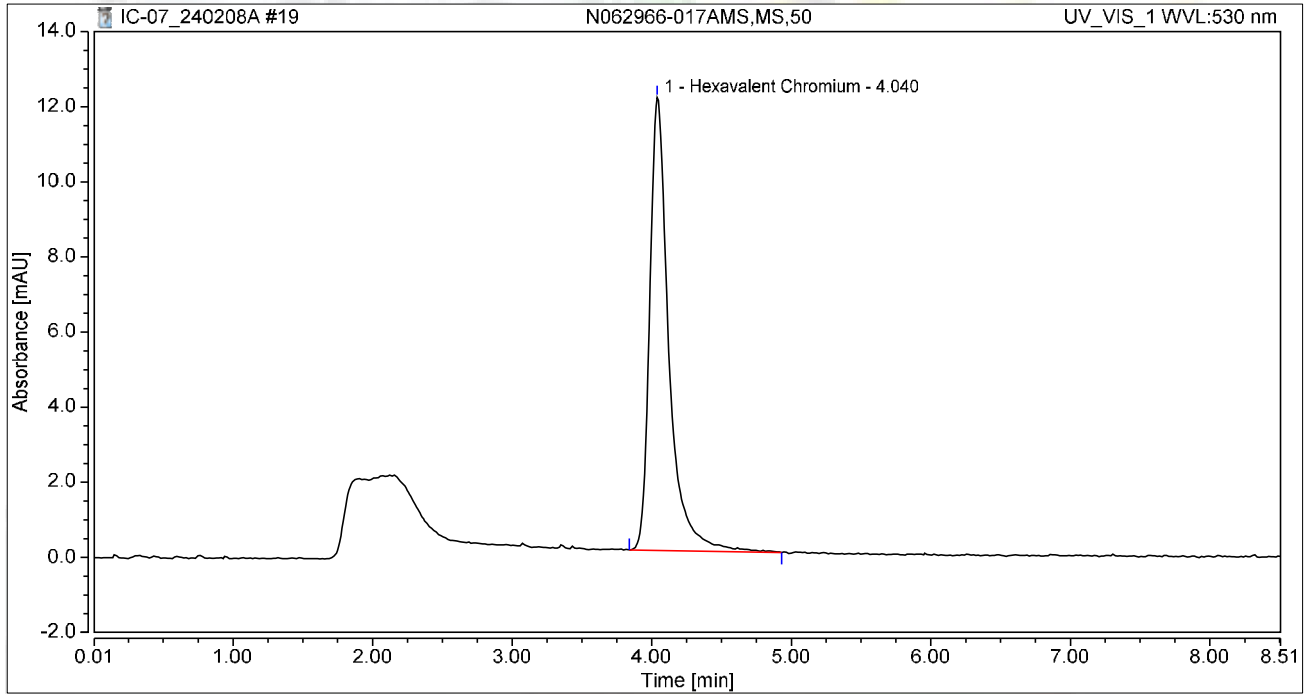
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.834	5.335	100.00	100.00	3.8753
Total:			0.834	5.335	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-017AMS,MS,50	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

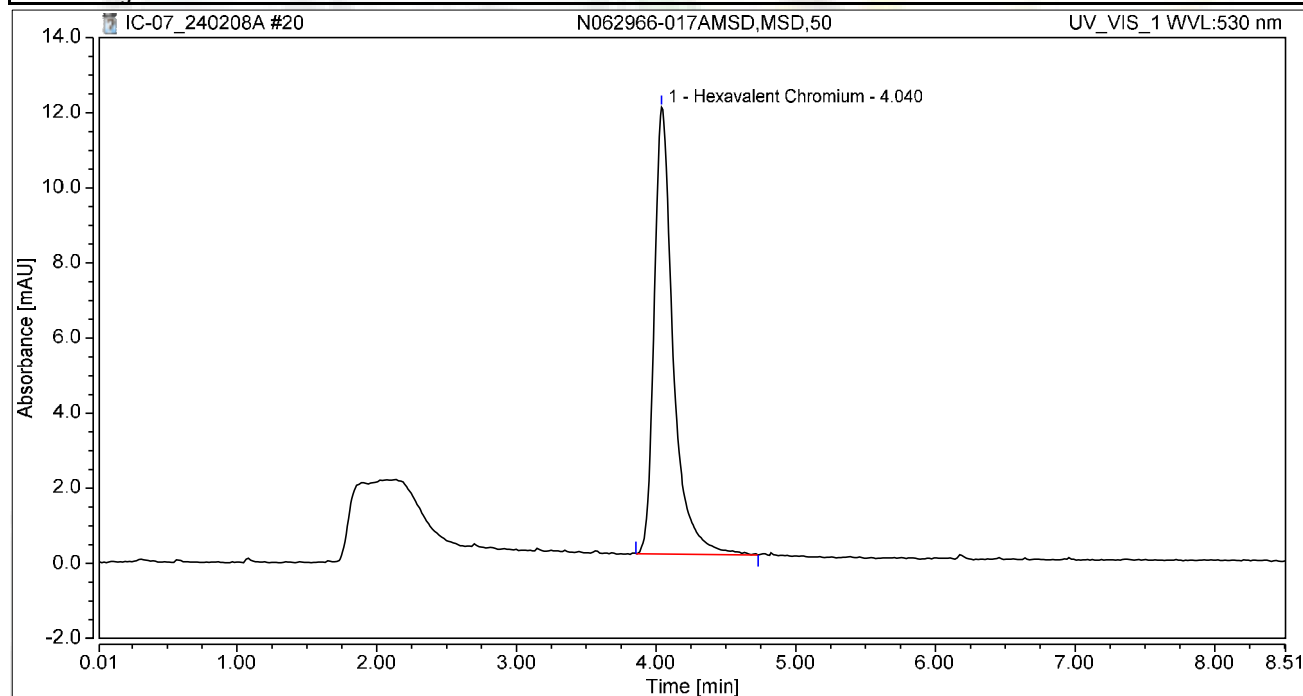
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.926	12.067	100.00	100.00	8.9549
Total:			1.926	12.067	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-017AMSD,MSD,50	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:18	Sample Weight:	1.0000

Chromatogram



Integration Results

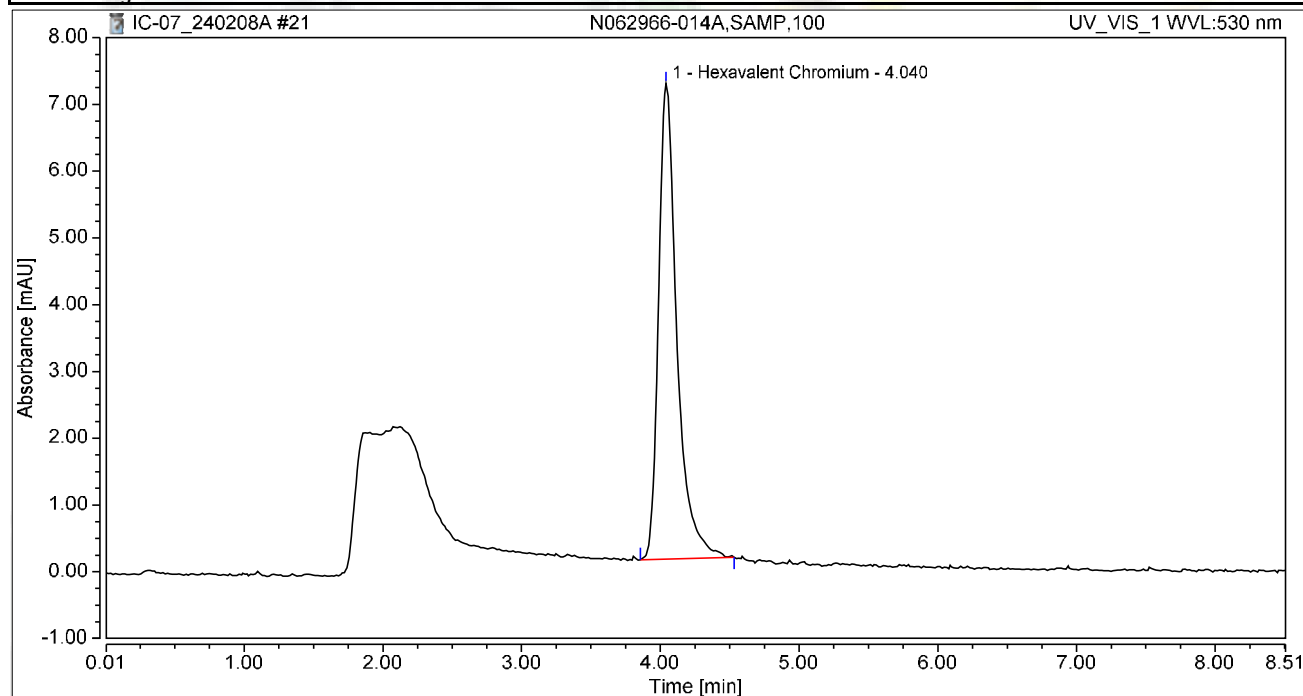
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.871	11.888	100.00	100.00	8.6968
Total:			1.871	11.888	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-014A,SAMP,100	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:27	Sample Weight:	1.0000

Chromatogram



Integration Results

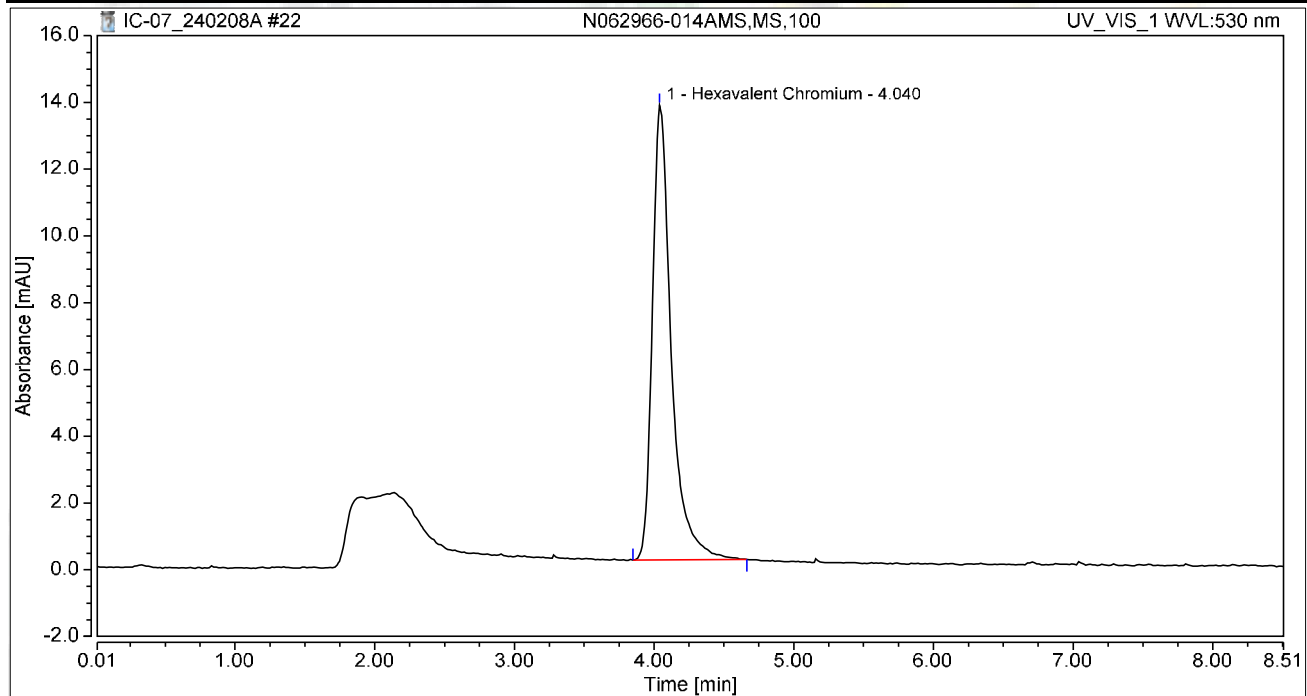
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.096	7.119	100.00	100.00	5.0937
Total:			1.096	7.119	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-014AMS,MS,100	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:37	Sample Weight:	1.0000

Chromatogram



Integration Results

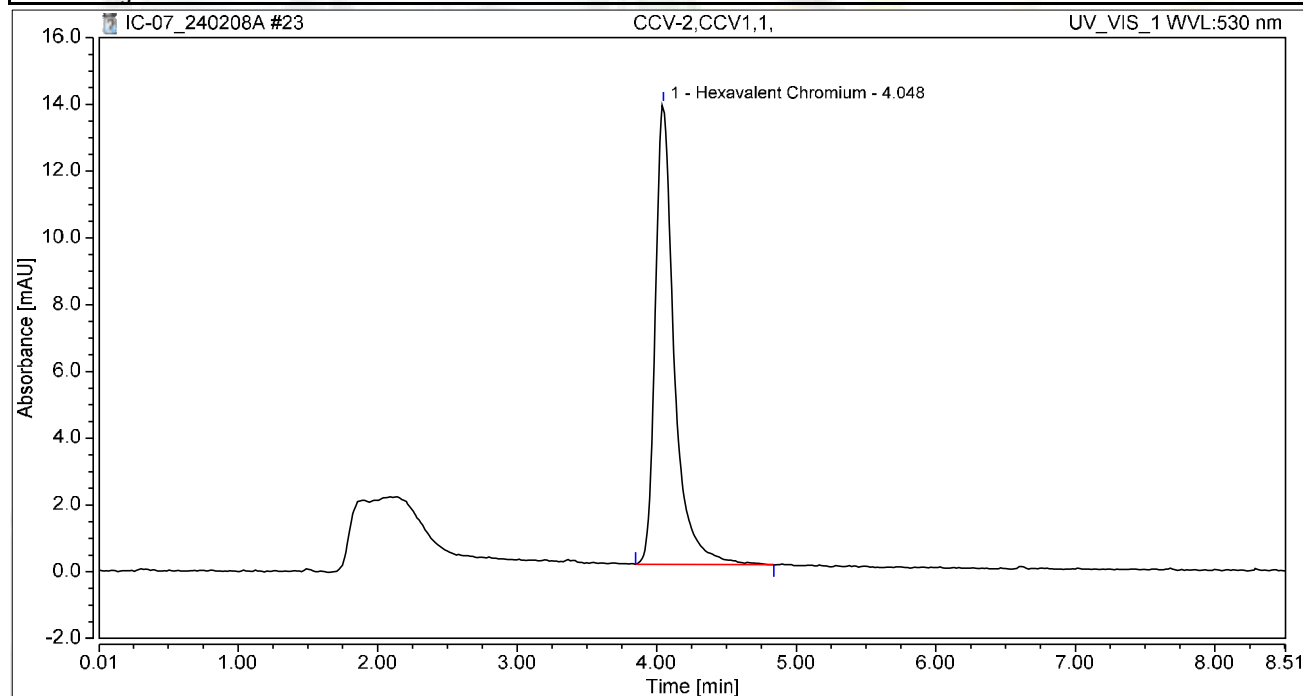
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.143	13.622	100.00	100.00	9.9623
Total:			2.143	13.622	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:46	Sample Weight:	1.0000

Chromatogram



Integration Results

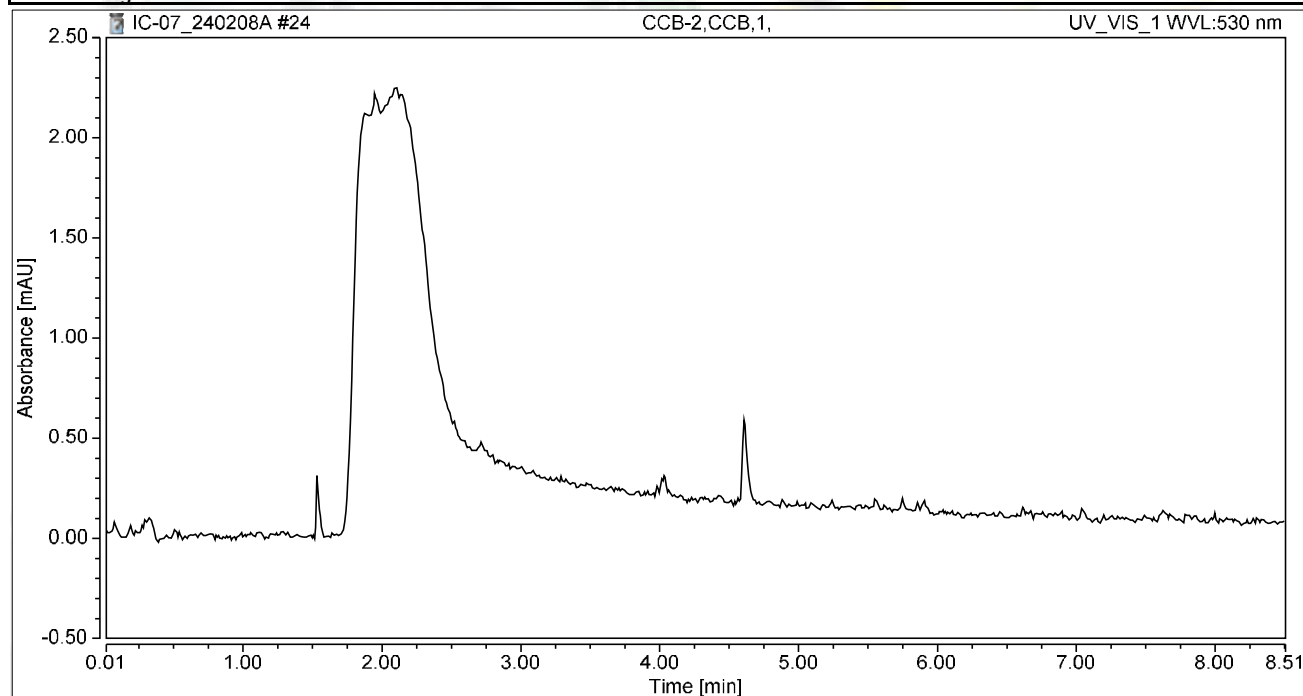
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.171	13.784	100.00	100.00	10.0911
Total:			2.171	13.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 11:56	Sample Weight:	1.0000

Chromatogram



Integration Results

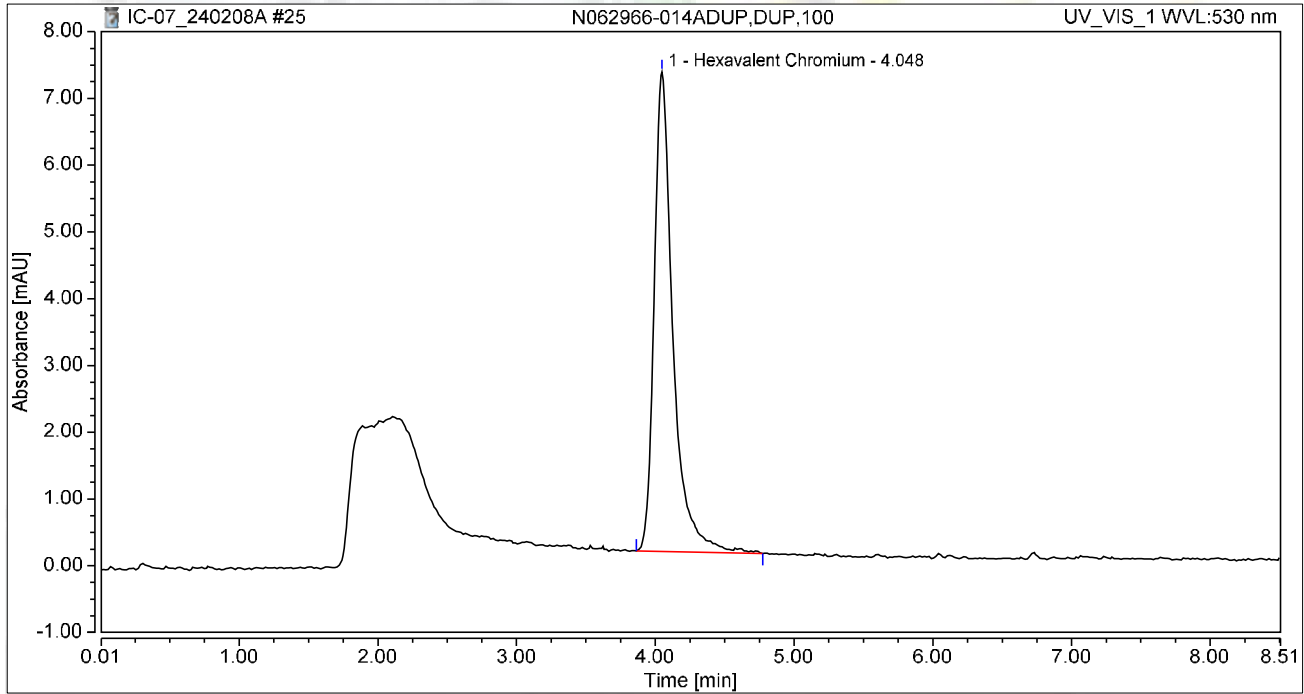
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-014ADUP,DUP,100	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

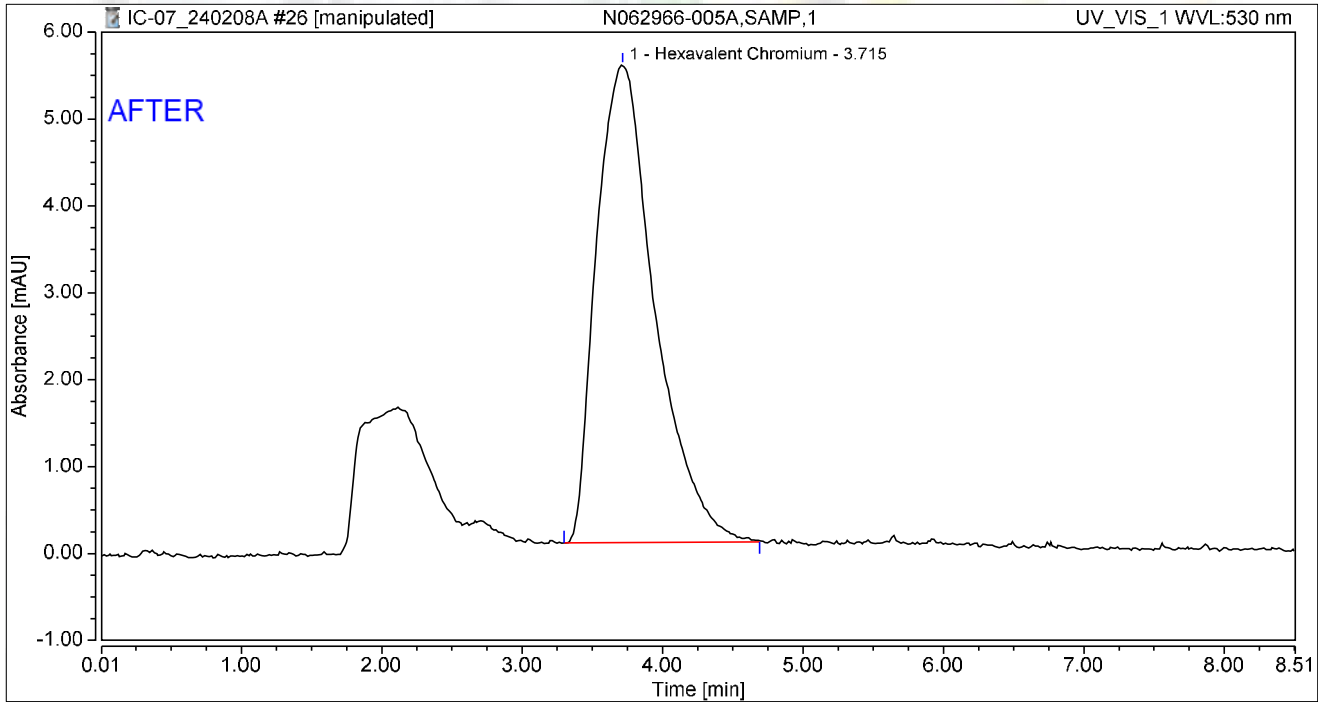
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.126	7.182	100.00	100.00	5.2368
Total:			1.126	7.182	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 12:36	Sample Weight:	1.0000

Chromatogram



Integration Results

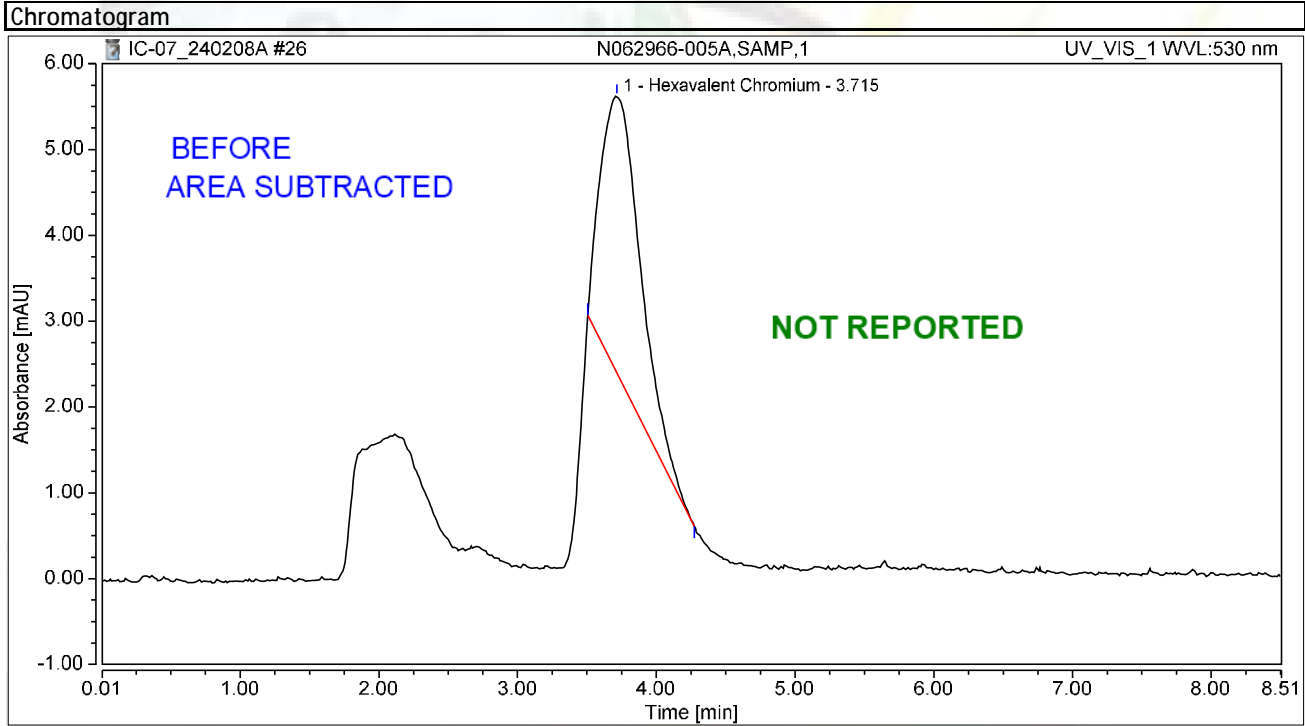
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.715	2.639	5.492	100.00	100.00	12.2664
Total:			2.639	5.492	100.00	100.00	

Reviewed by:

jrb 2/20/2024

Chromatogram and Results

Injection Details		
Injection Name:	N062966-005A,SAMP,1	Run Time (min): 8.50
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 12:36	Sample Weight: 1.0000



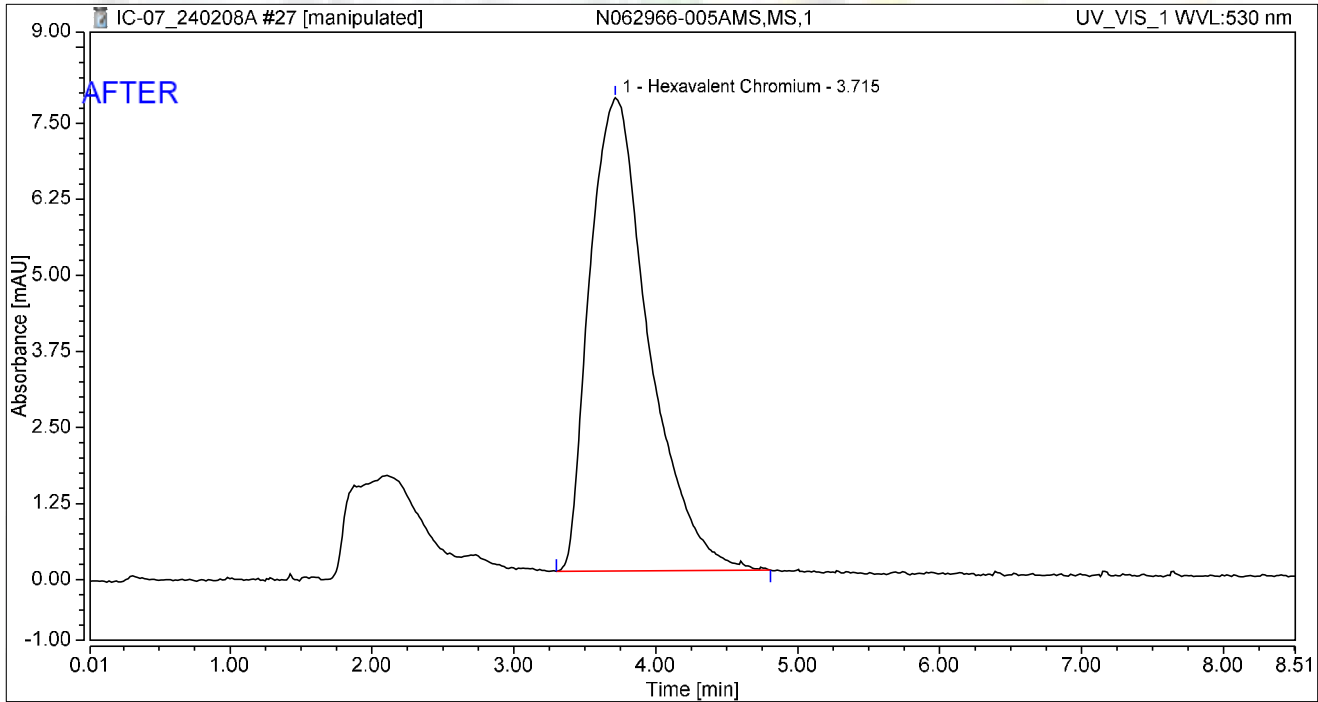
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.715	1.084	3.219	100.00	100.00	5.0394
Total:			1.084	3.219	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 12:46	Sample Weight:	1.0000

Chromatogram



Integration Results

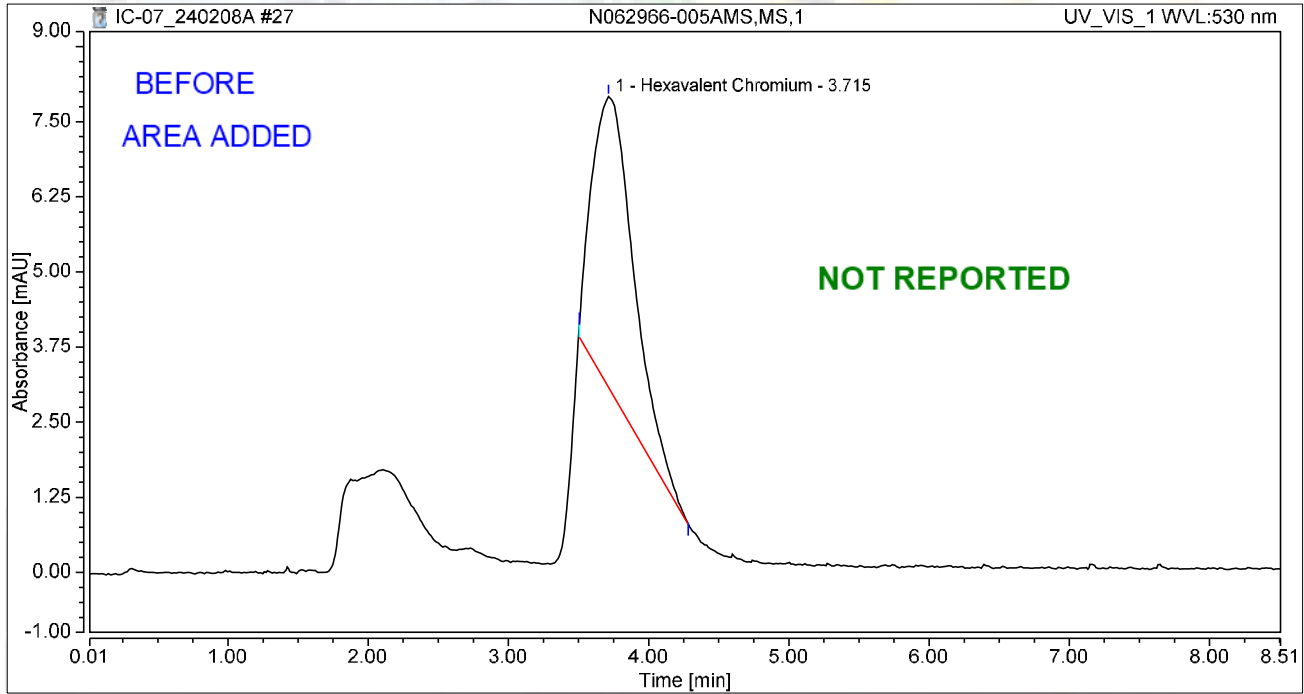
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.715	3.744	7.776	100.00	100.00	17.4050
Total:			3.744	7.776	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 12:46	Sample Weight:	1.0000

Chromatogram



Integration Results

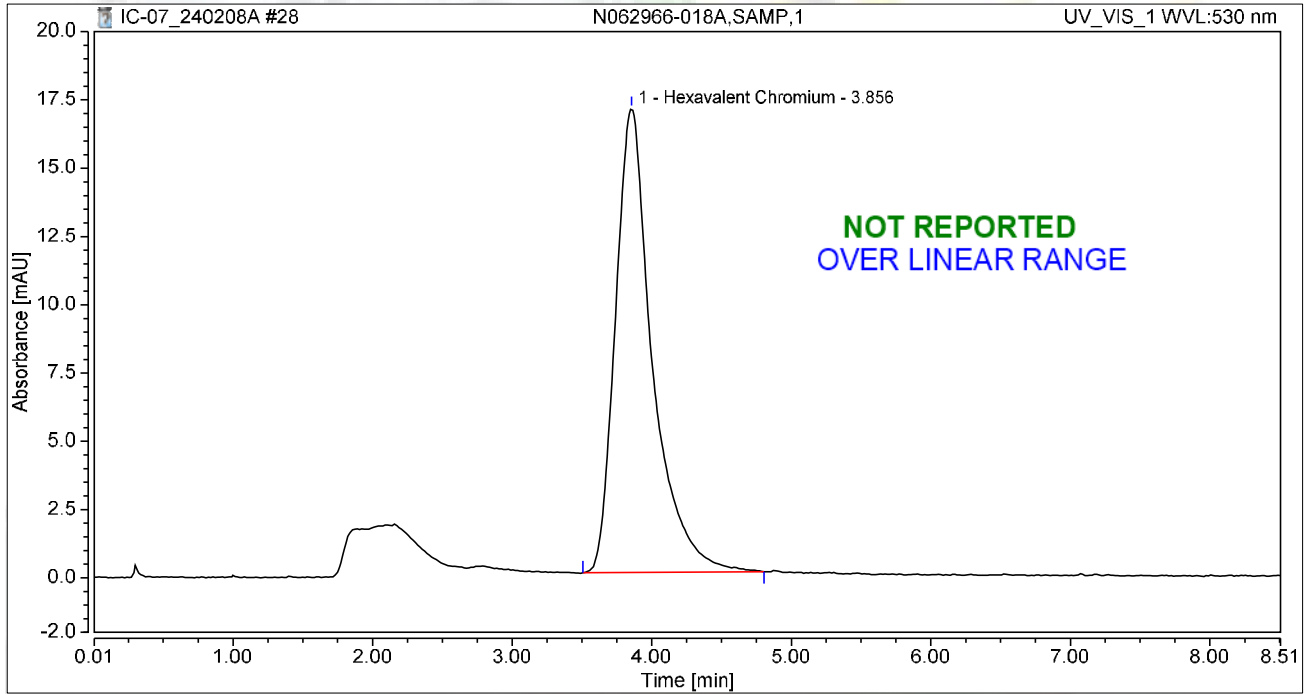
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.715	1.692	4.843	100.00	100.00	7.8657
Total:			1.692	4.843	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 12:55	Sample Weight:	1.0000

Chromatogram



Integration Results

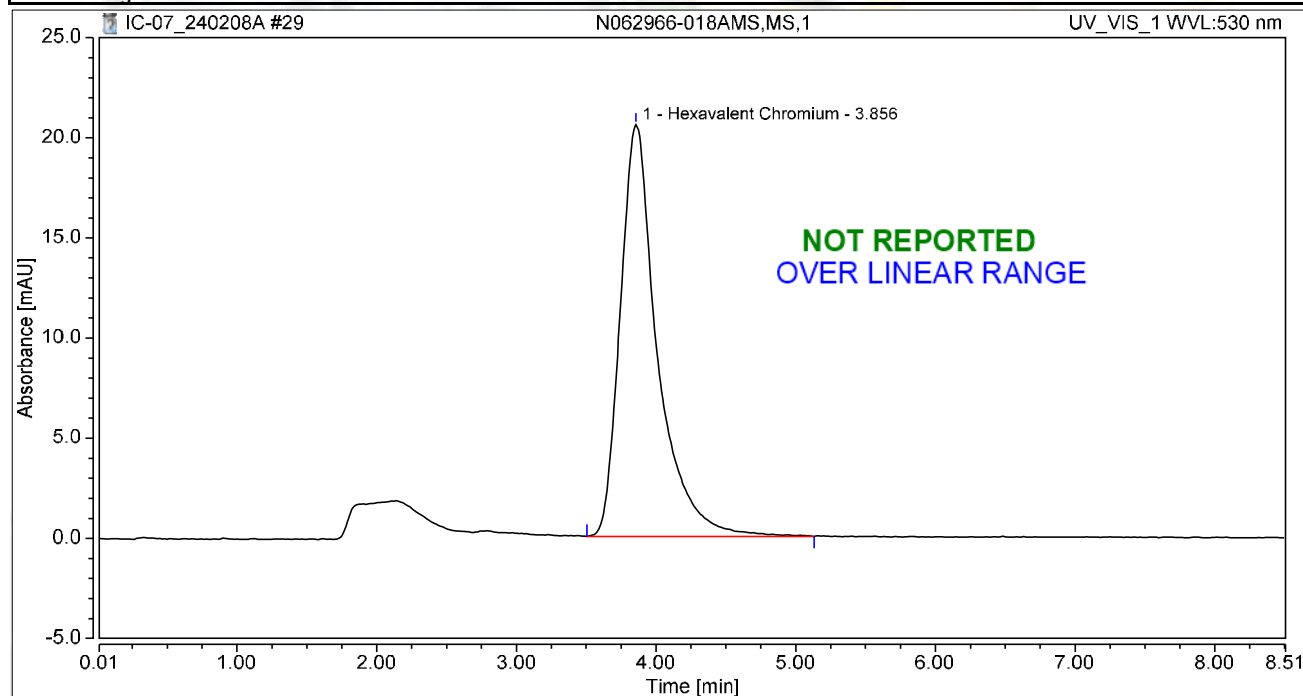
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	5.198	16.993	100.00	100.00	24.1636
Total:			5.198	16.993	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-018AMS,MS,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 13:08	Sample Weight:	1.0000

Chromatogram



Integration Results

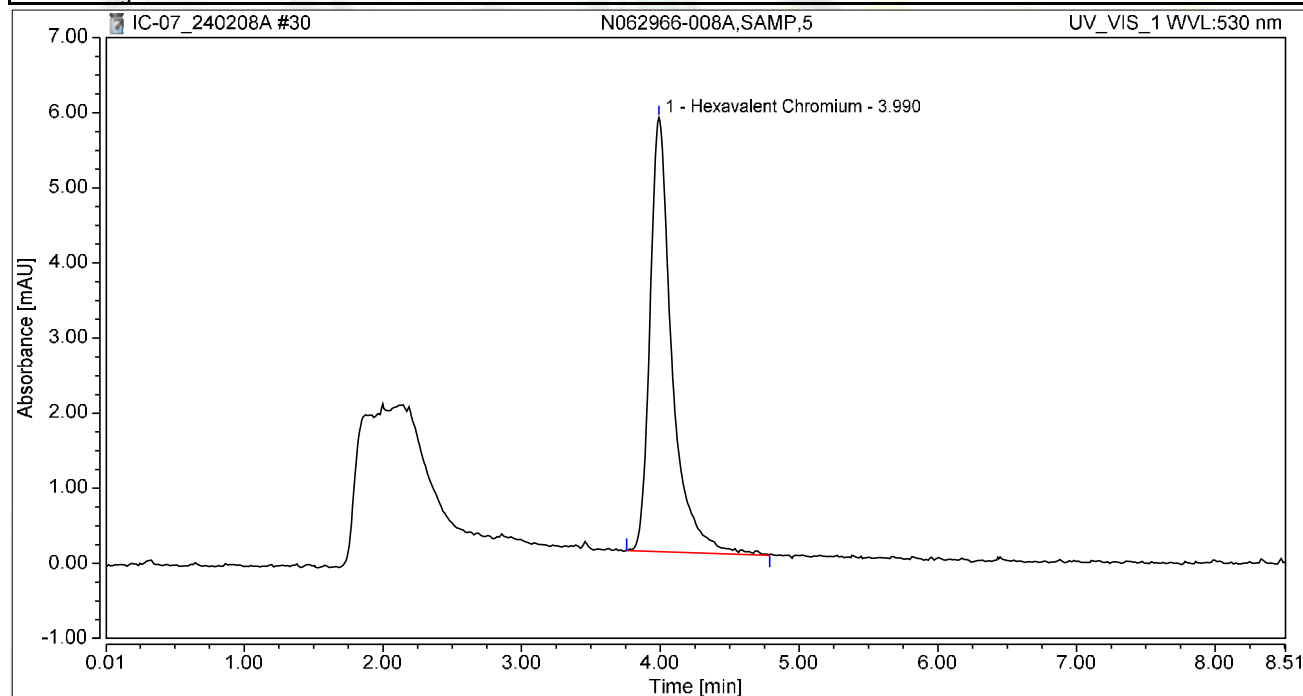
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	6.313	20.540	100.00	100.00	29.3509
Total:			6.313	20.540	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 13:18	Sample Weight:	1.0000

Chromatogram



Integration Results

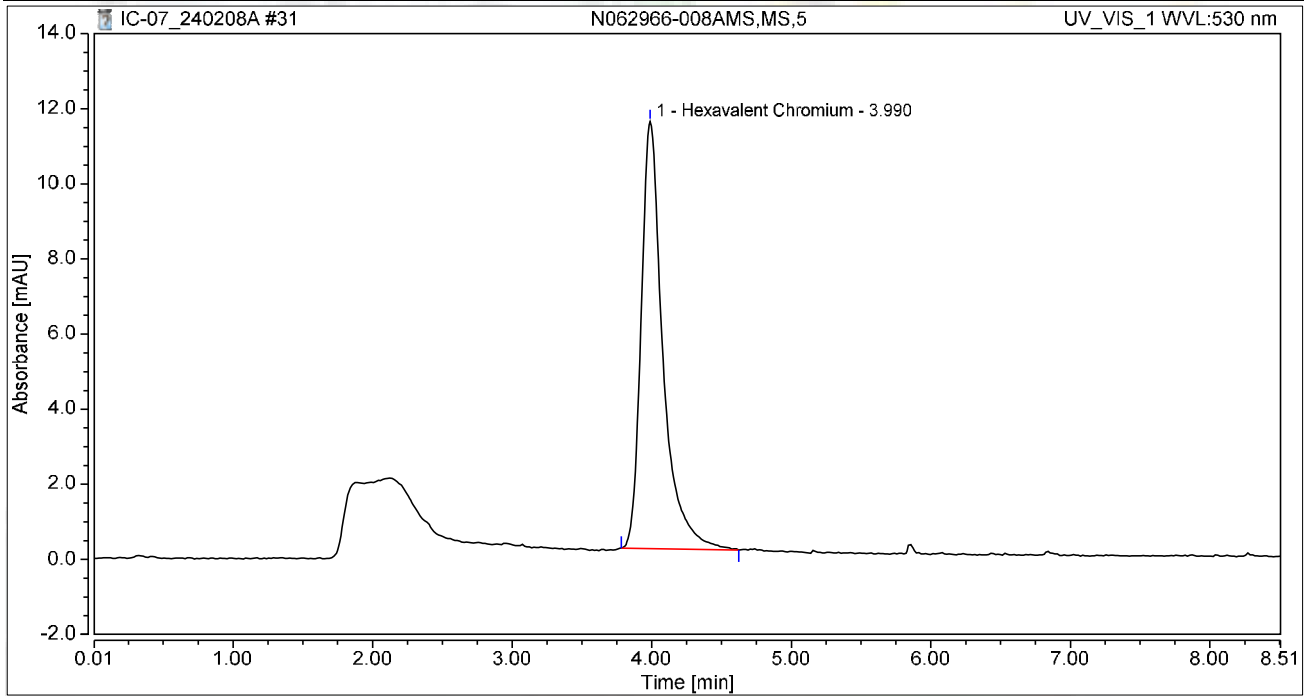
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	1.063	5.780	100.00	100.00	4.9428
Total:			1.063	5.780	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 13:27	Sample Weight:	1.0000

Chromatogram



Integration Results

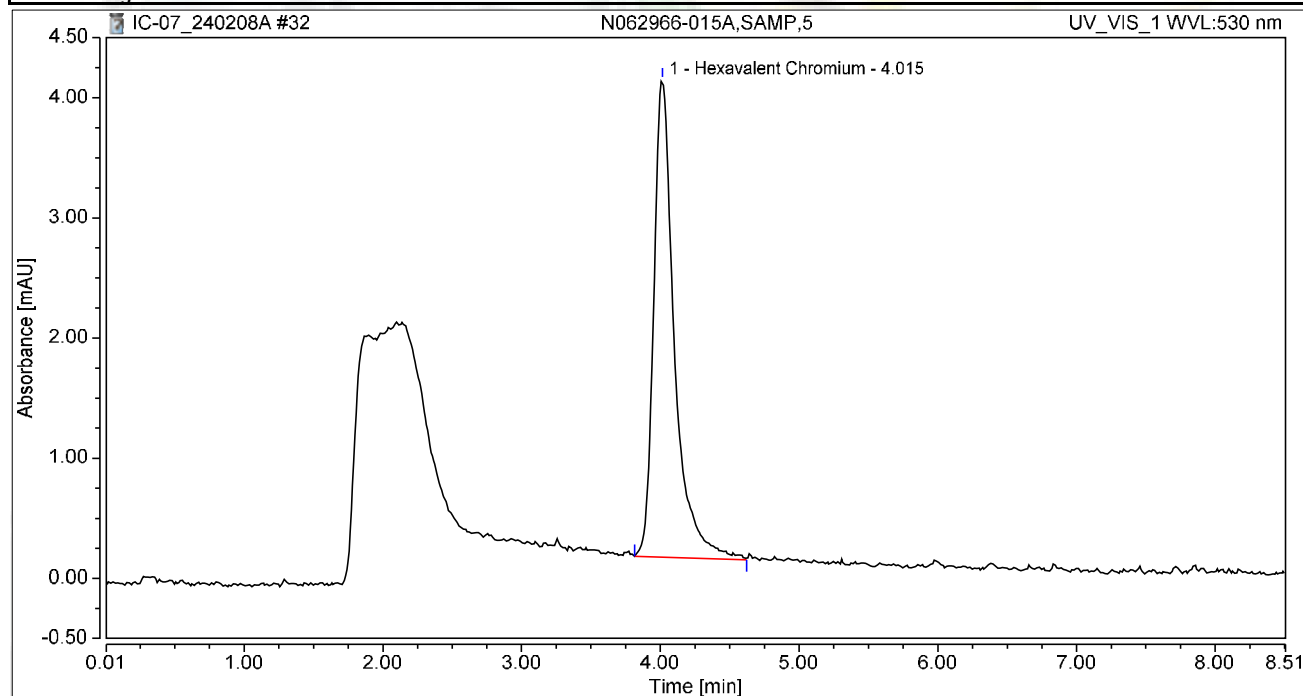
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	2.060	11.369	100.00	100.00	9.5775
Total:			2.060	11.369	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-015A,SAMP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 13:37	Sample Weight:	1.0000

Chromatogram



Integration Results

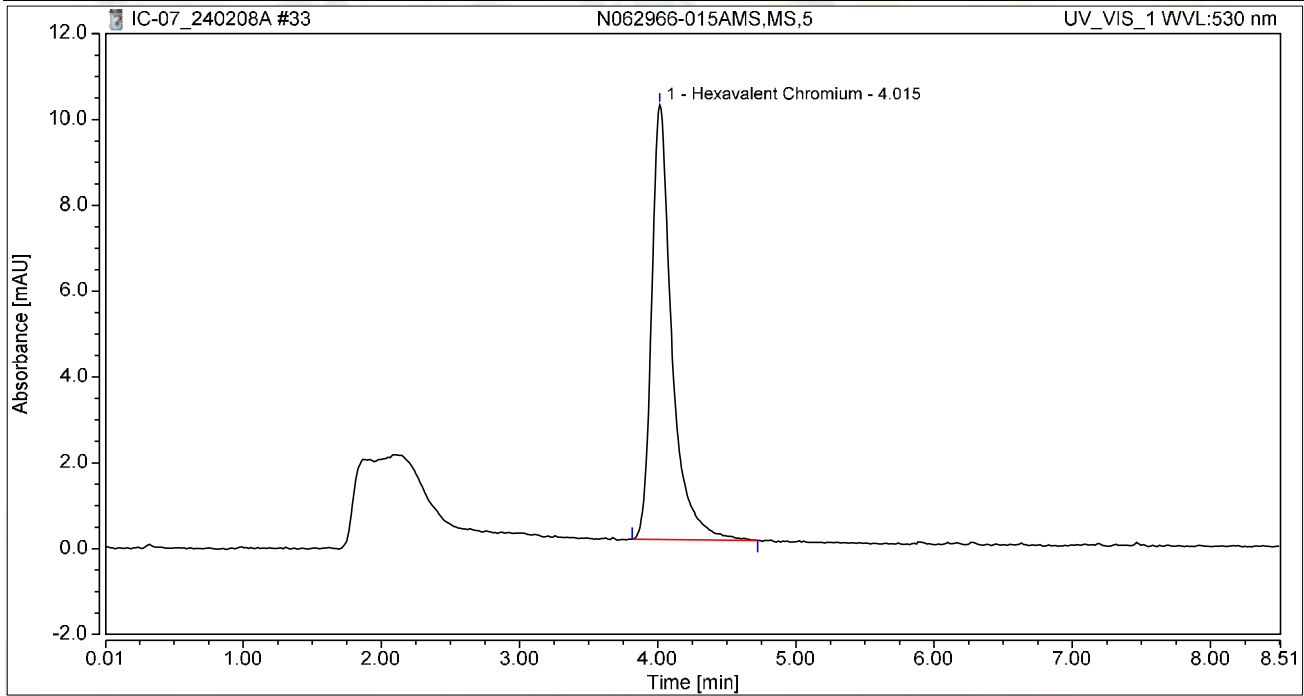
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.686	3.972	100.00	100.00	3.1905
Total:			0.686	3.972	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 13:46	Sample Weight:	1.0000

Chromatogram



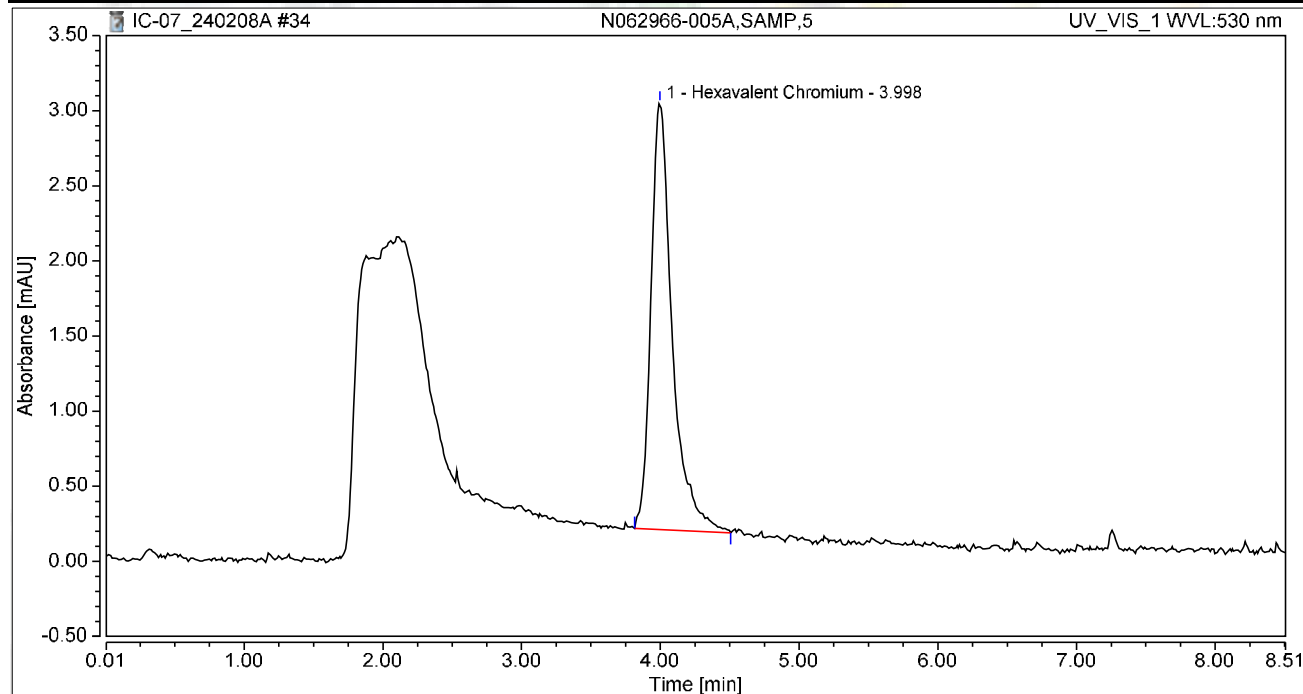
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.719	10.123	100.00	100.00	7.9901
Total:			1.719	10.123	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-005A,SAMP,5	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 13:56	Sample Weight: 1.0000

Chromatogram



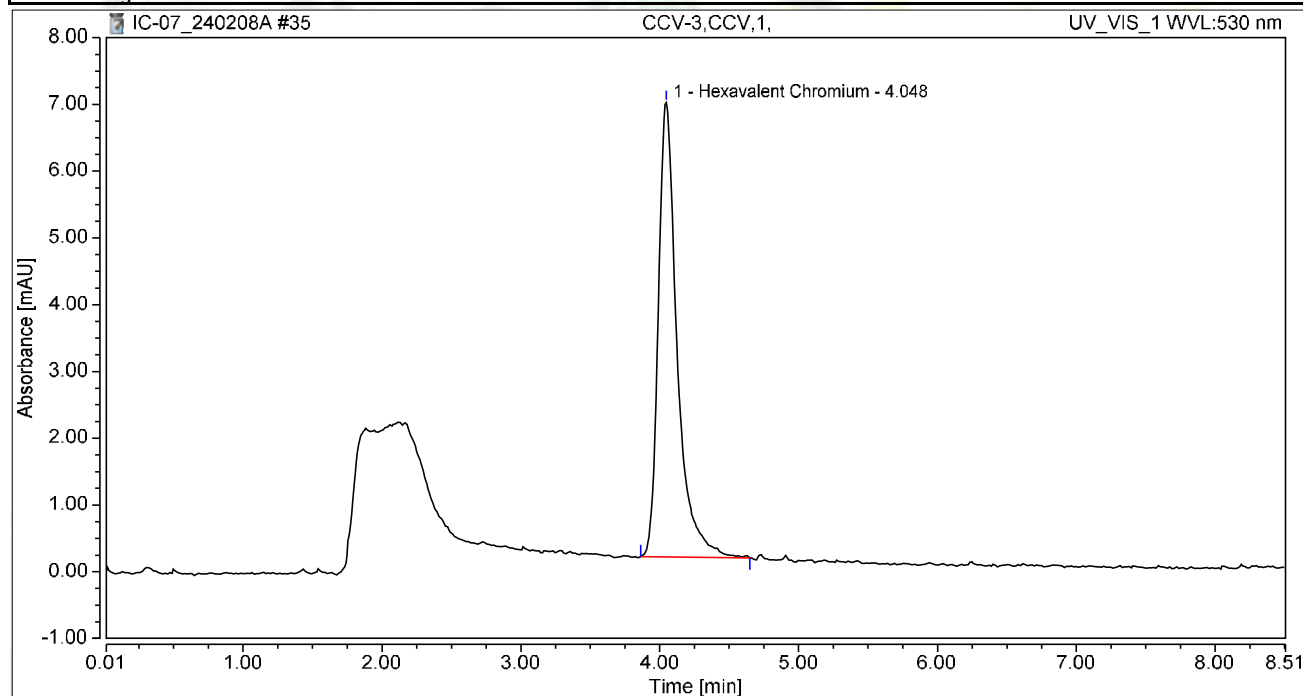
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	0.507	2.837	100.00	100.00	2.3570
Total:			0.507	2.837	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

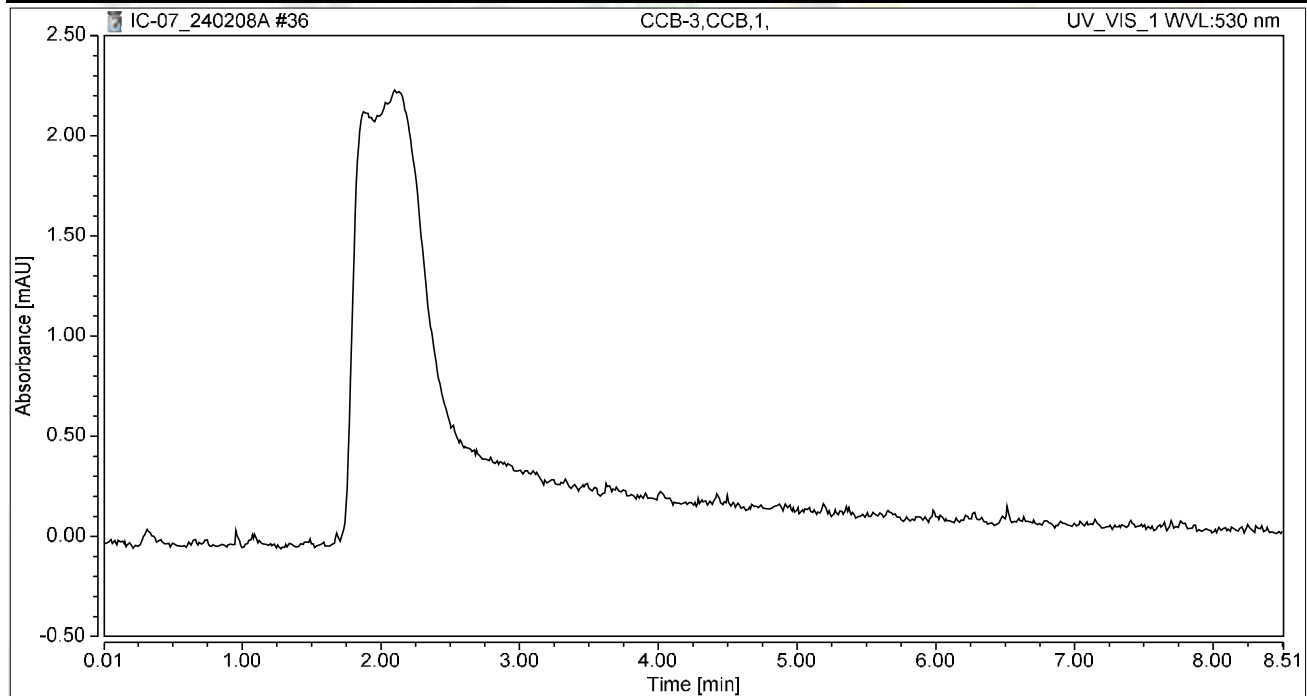
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.069	6.808	100.00	100.00	4.9684
Total:			1.069	6.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 14:15	Sample Weight:	1.0000

Chromatogram



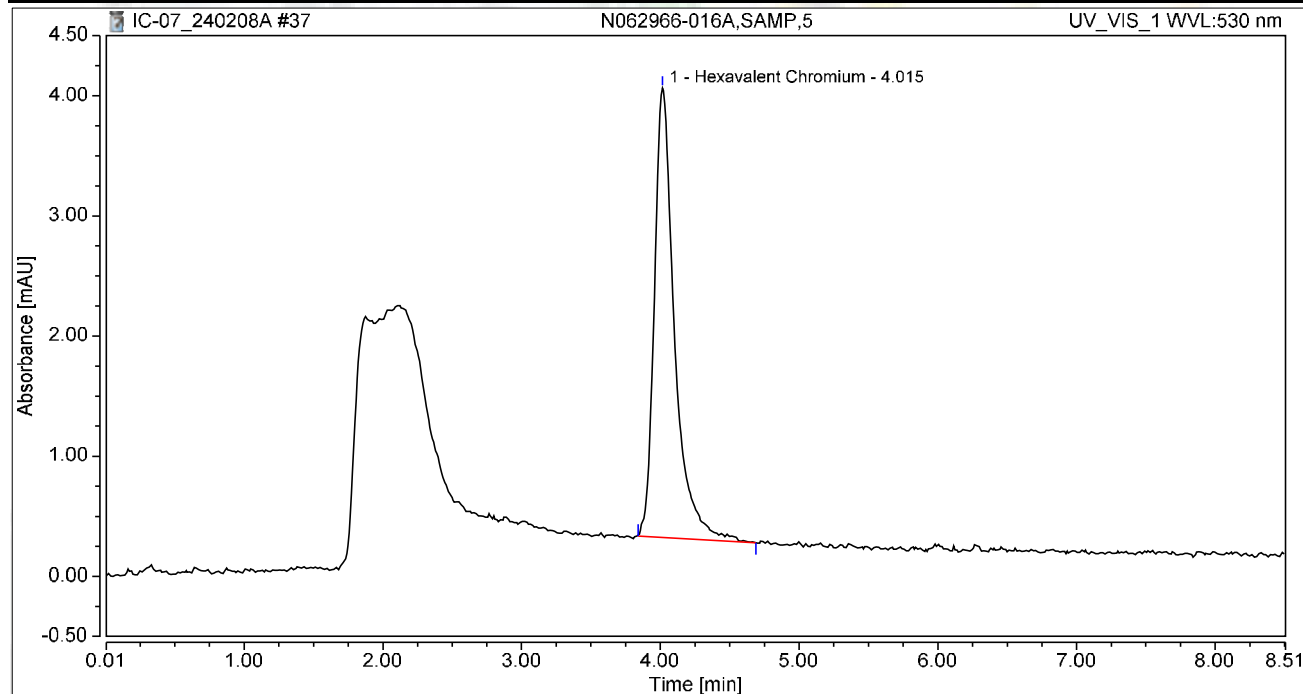
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-016A,SAMP,5	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 14:29	Sample Weight: 1.0000

Chromatogram



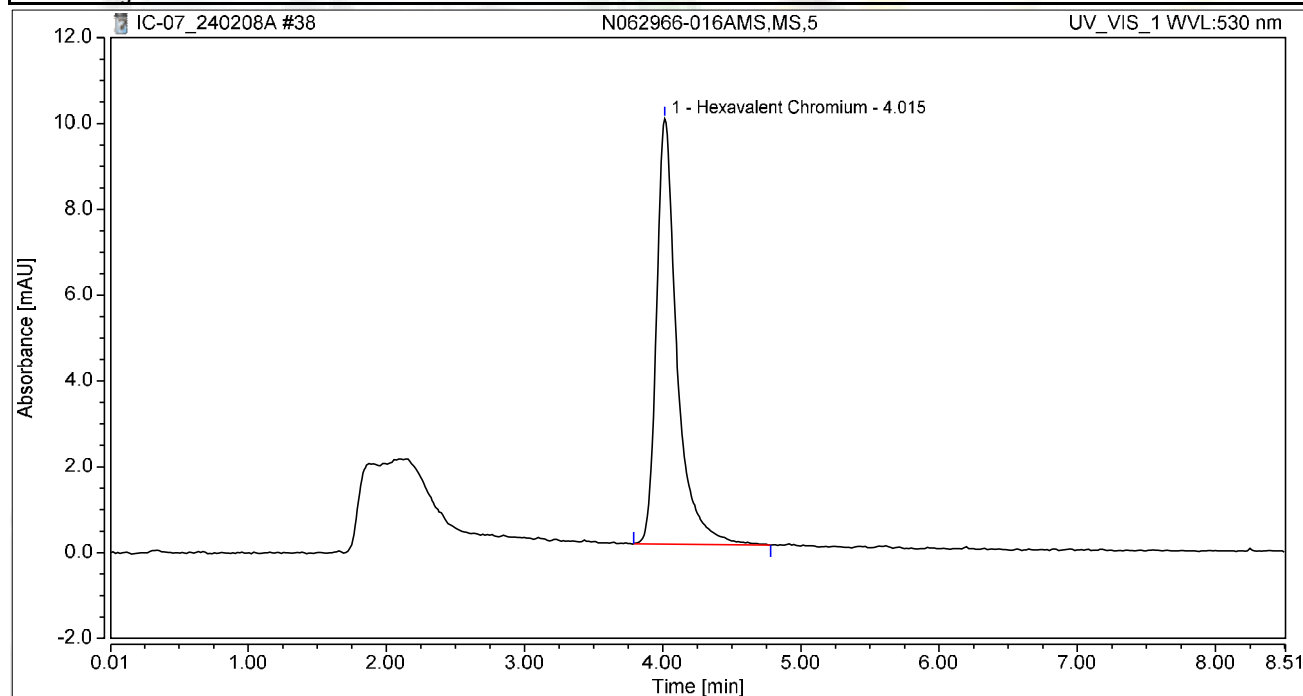
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.631	3.741	100.00	100.00	2.9346
Total:			0.631	3.741	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-016AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 14:39	Sample Weight:	1.0000

Chromatogram



Integration Results

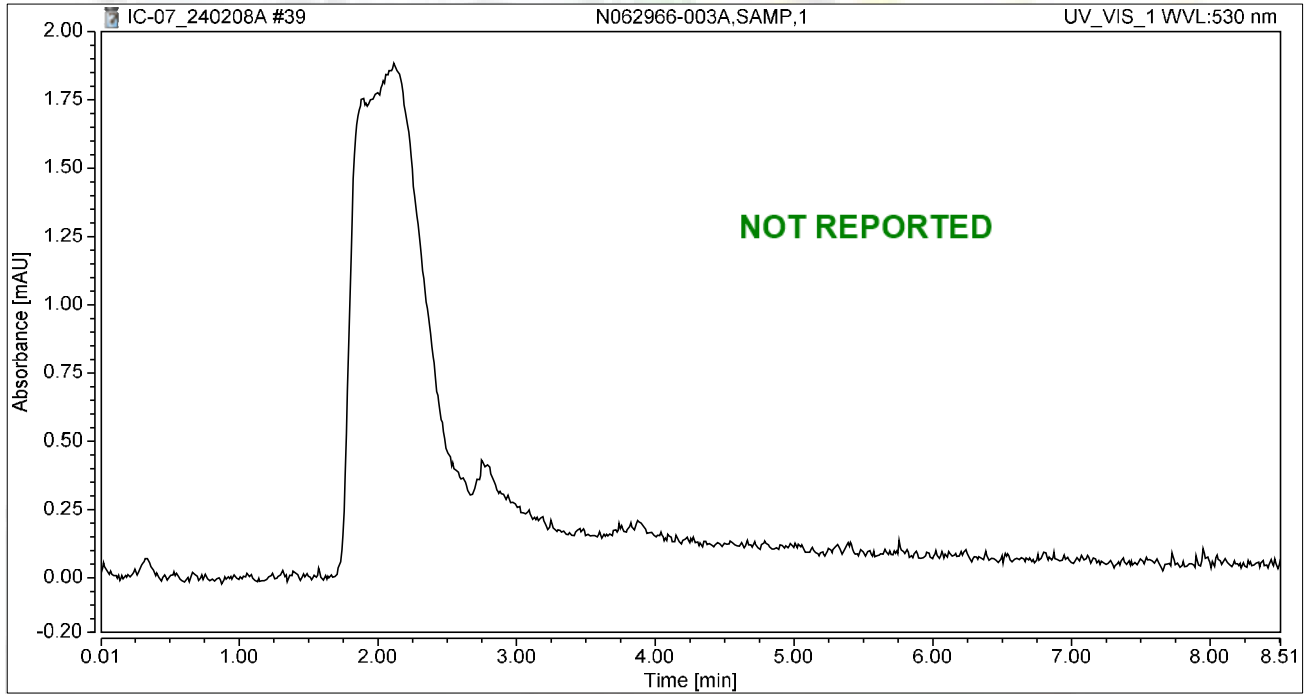
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.701	9.911	100.00	100.00	7.9101
Total:			1.701	9.911	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 14:49	Sample Weight:	1.0000

Chromatogram



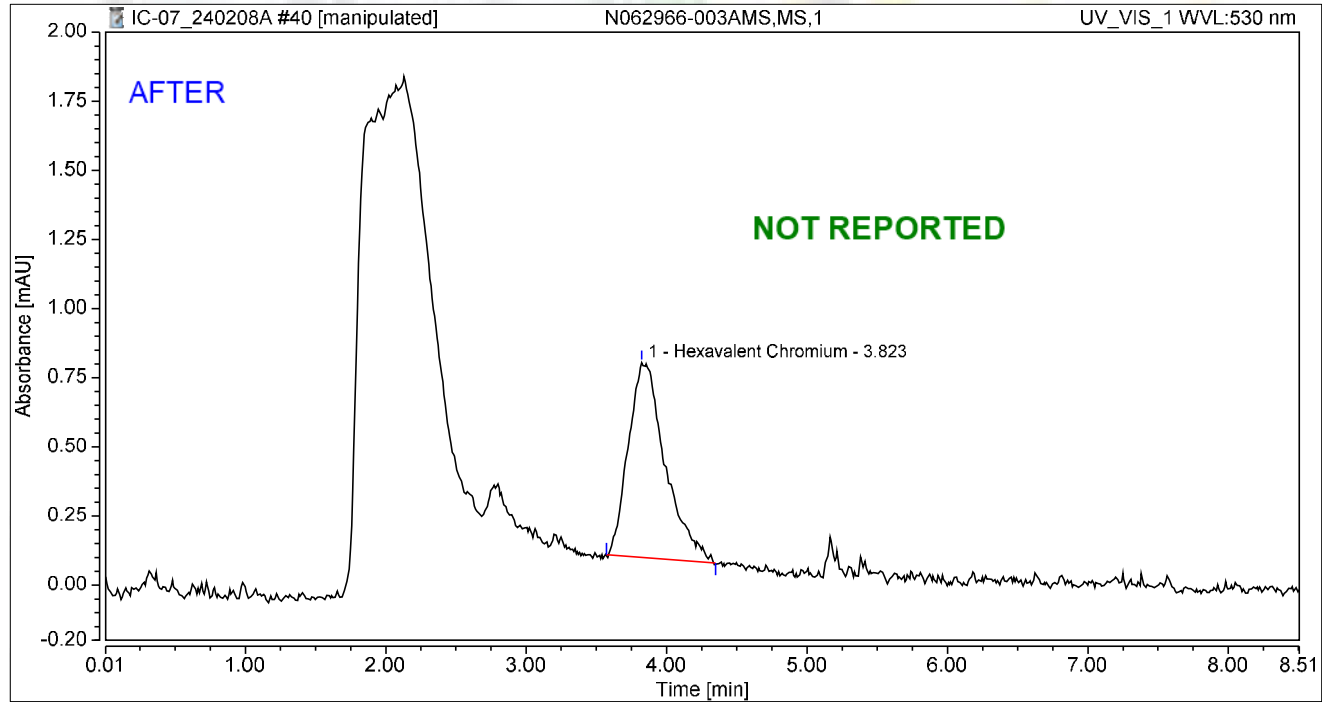
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 14:58	Sample Weight: 1.0000

Chromatogram

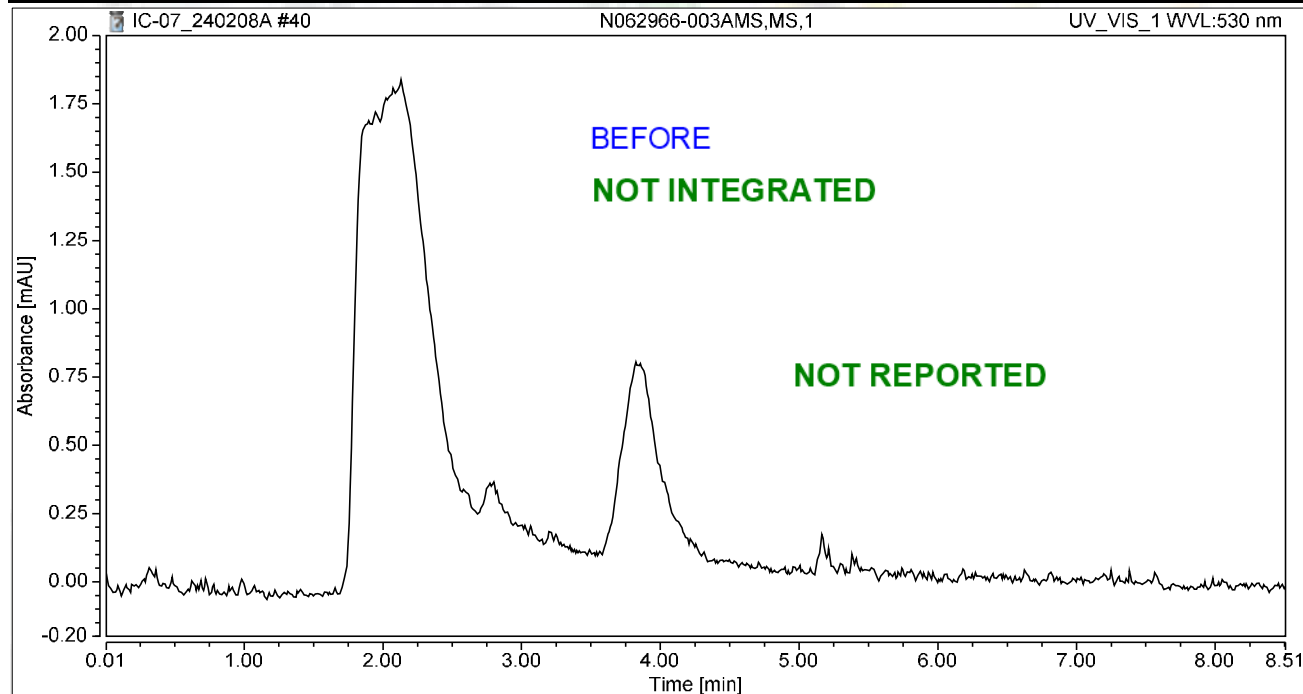


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.823	0.215	0.705	100.00	100.00	0.9996
Total:			0.215	0.705	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 14:58	Sample Weight: 1.0000

Chromatogram



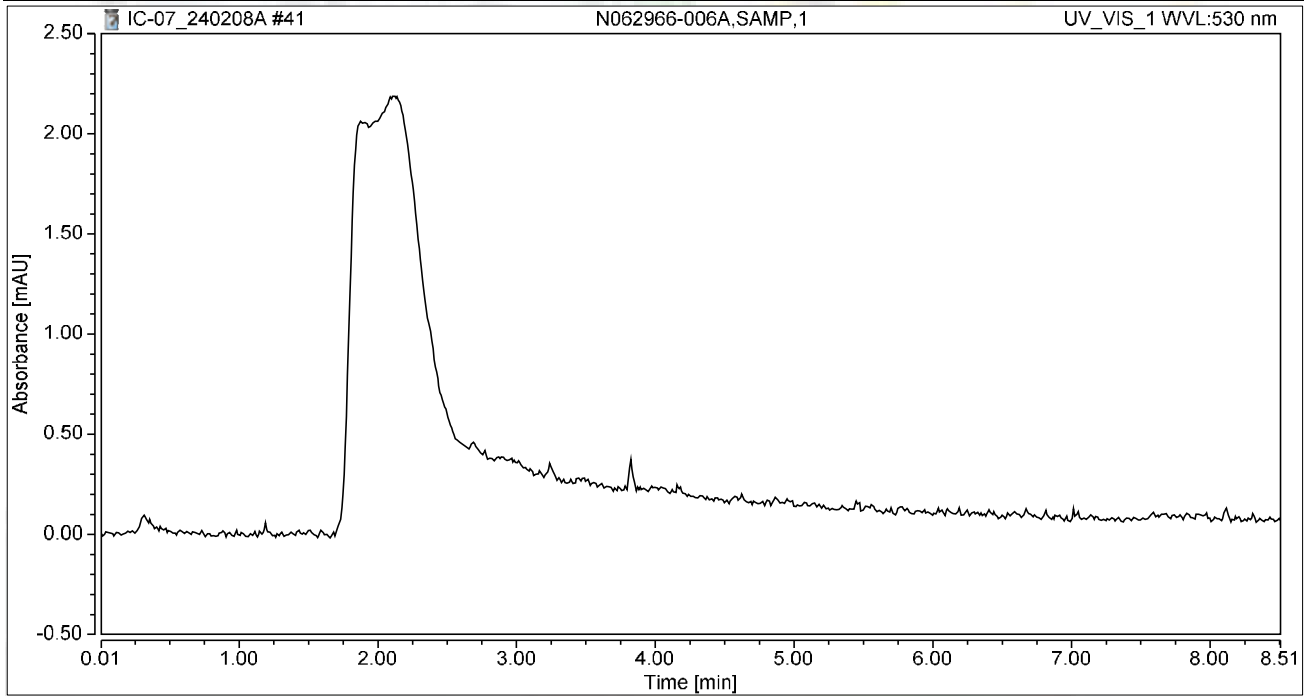
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:08	Sample Weight:	1.0000

Chromatogram



Integration Results

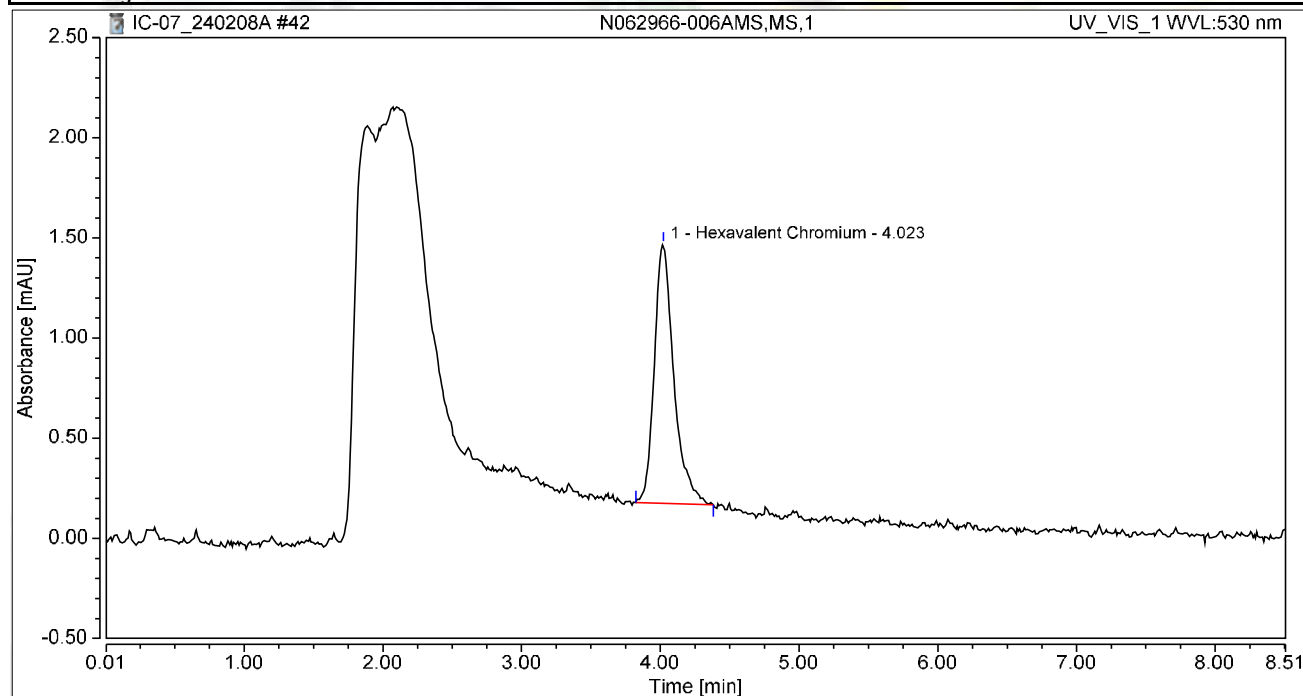
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:17	Sample Weight:	1.0000

Chromatogram



Integration Results

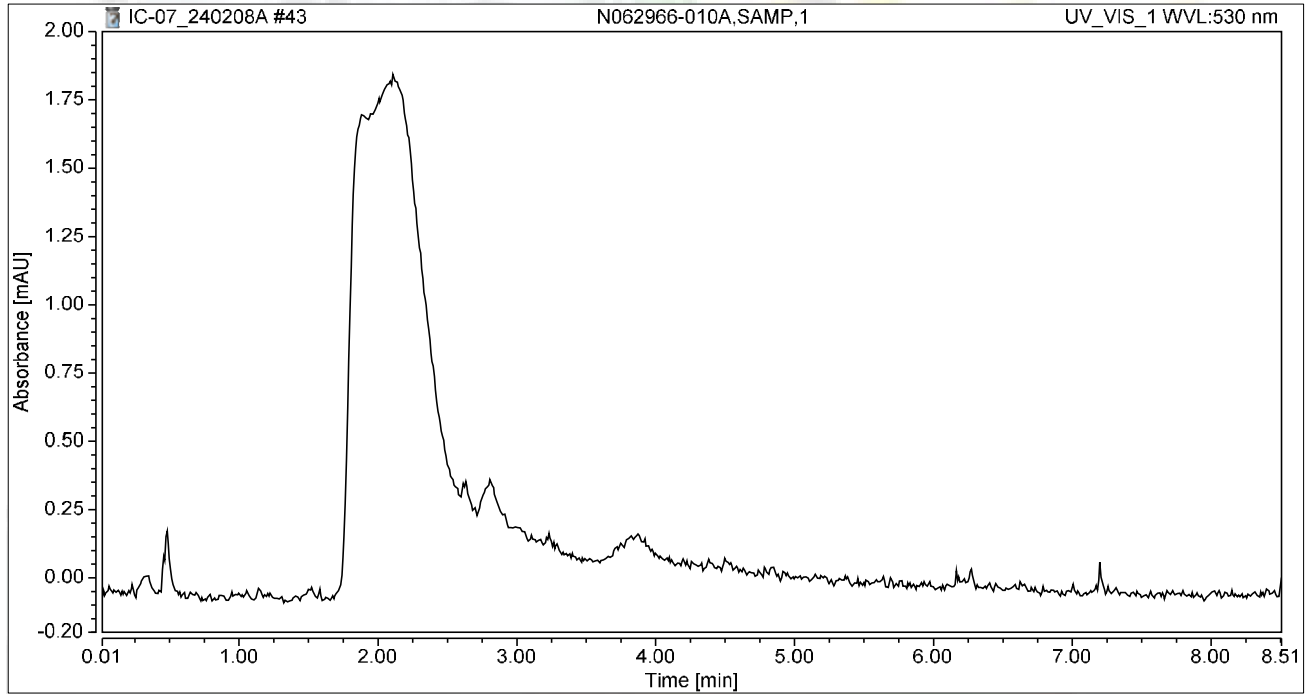
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.211	1.294	100.00	100.00	0.9818
Total:			0.211	1.294	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-010A,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:27	Sample Weight:	1.0000

Chromatogram



Integration Results

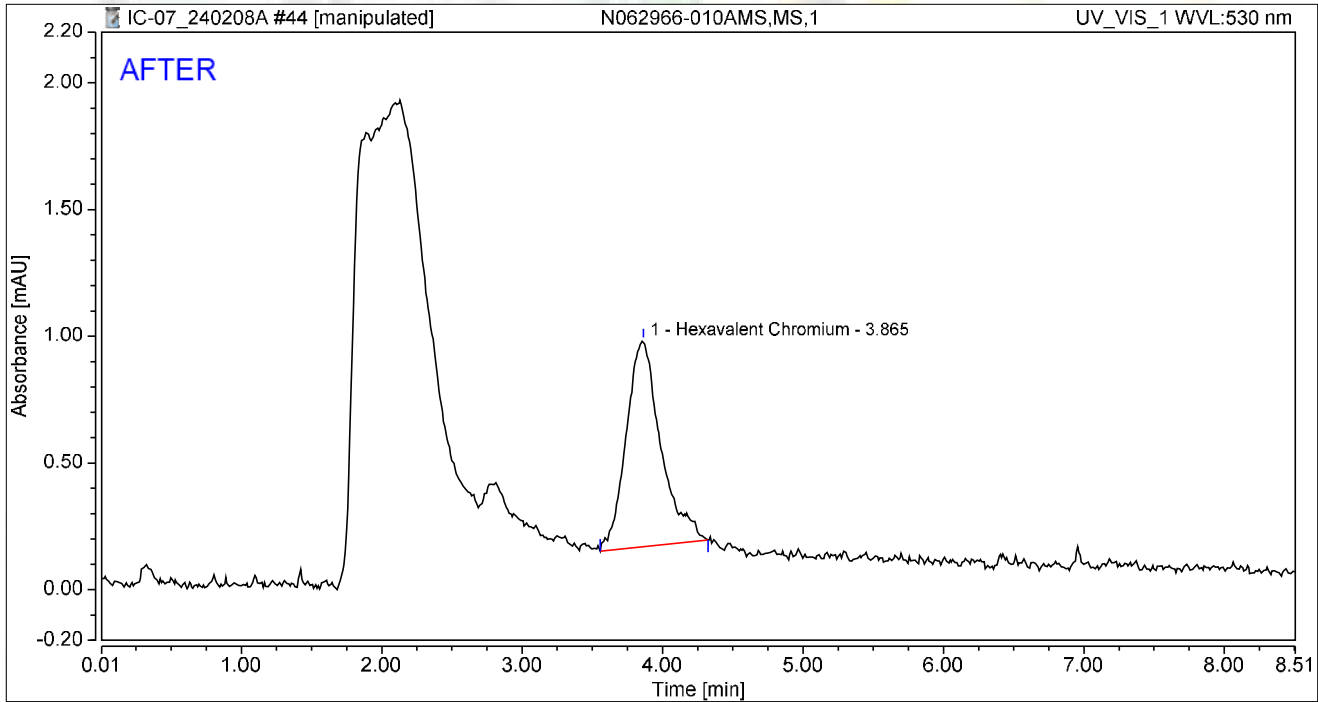
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.233	0.814	100.00	100.00	1.0832
Total:			0.233	0.814	100.00	100.00	

Reviewed by:

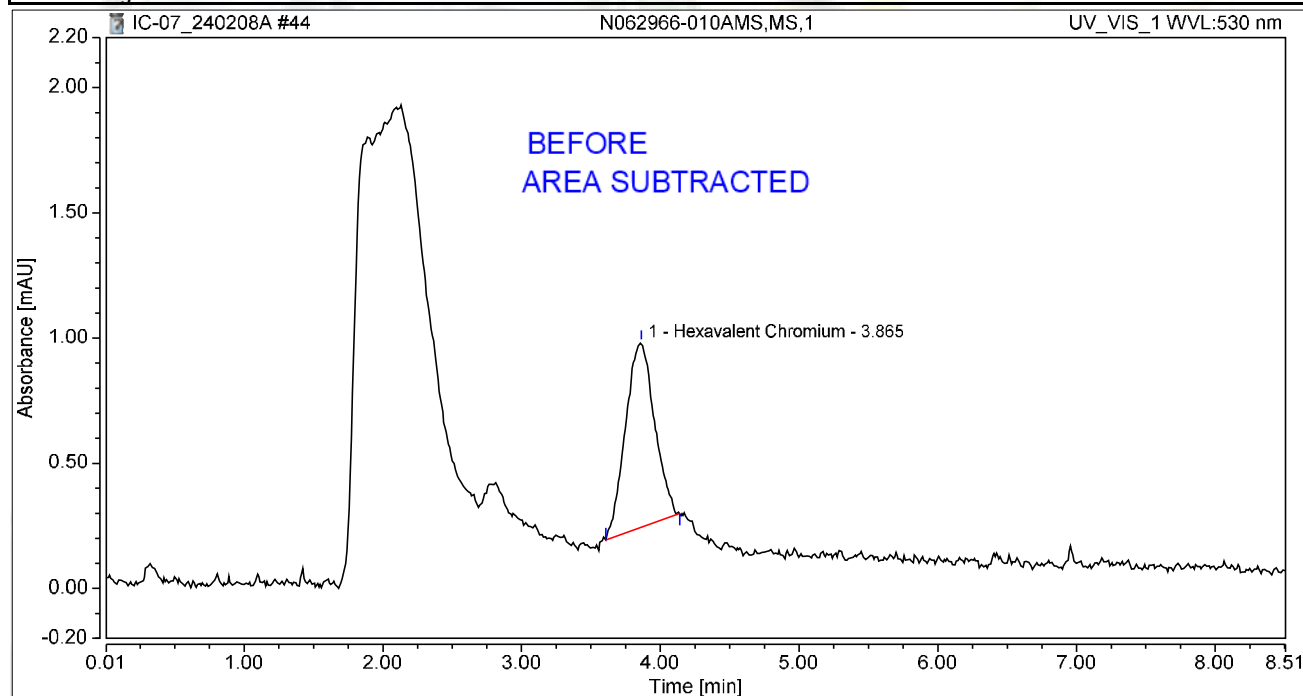
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062966-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

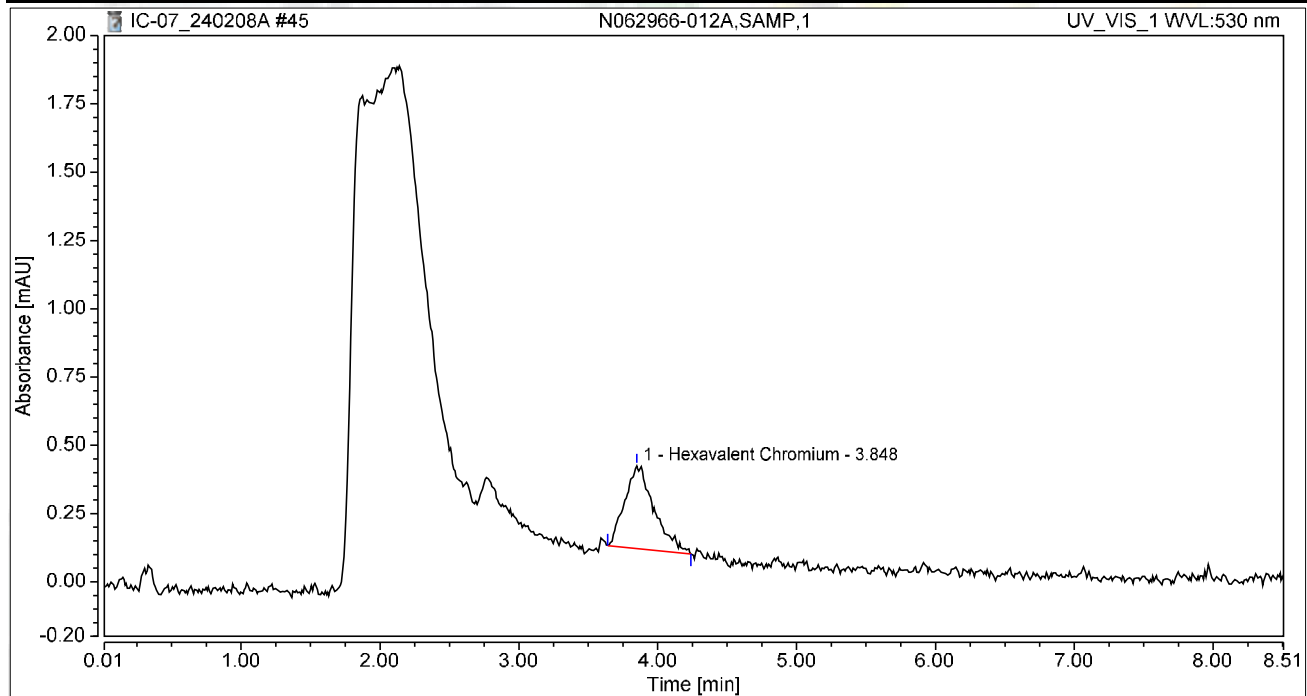
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.179	0.738	100.00	100.00	0.8325
Total:			0.179	0.738	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-012A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 15:46	Sample Weight:	1.0000

Chromatogram



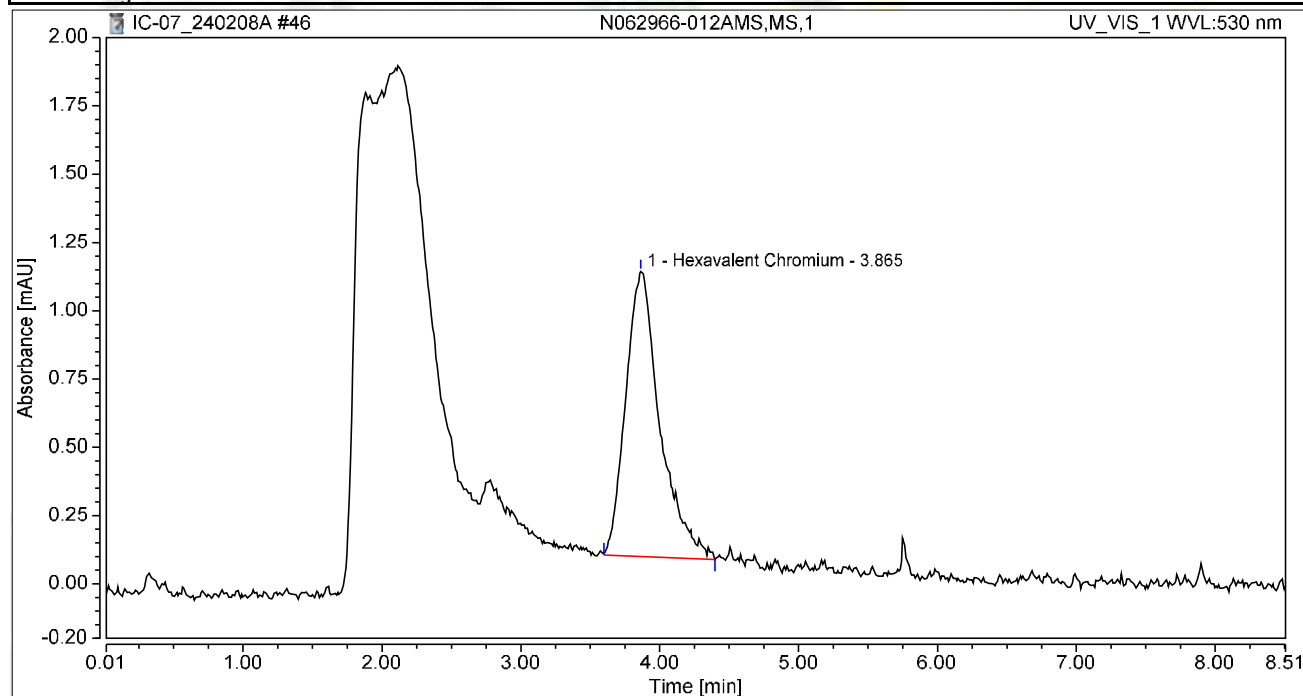
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.074	0.303	100.00	100.00	0.3461
Total:			0.074	0.303	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-012AMS,MS,1	Run Time (min): 8.49
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 15:55	Sample Weight: 1.0000

Chromatogram



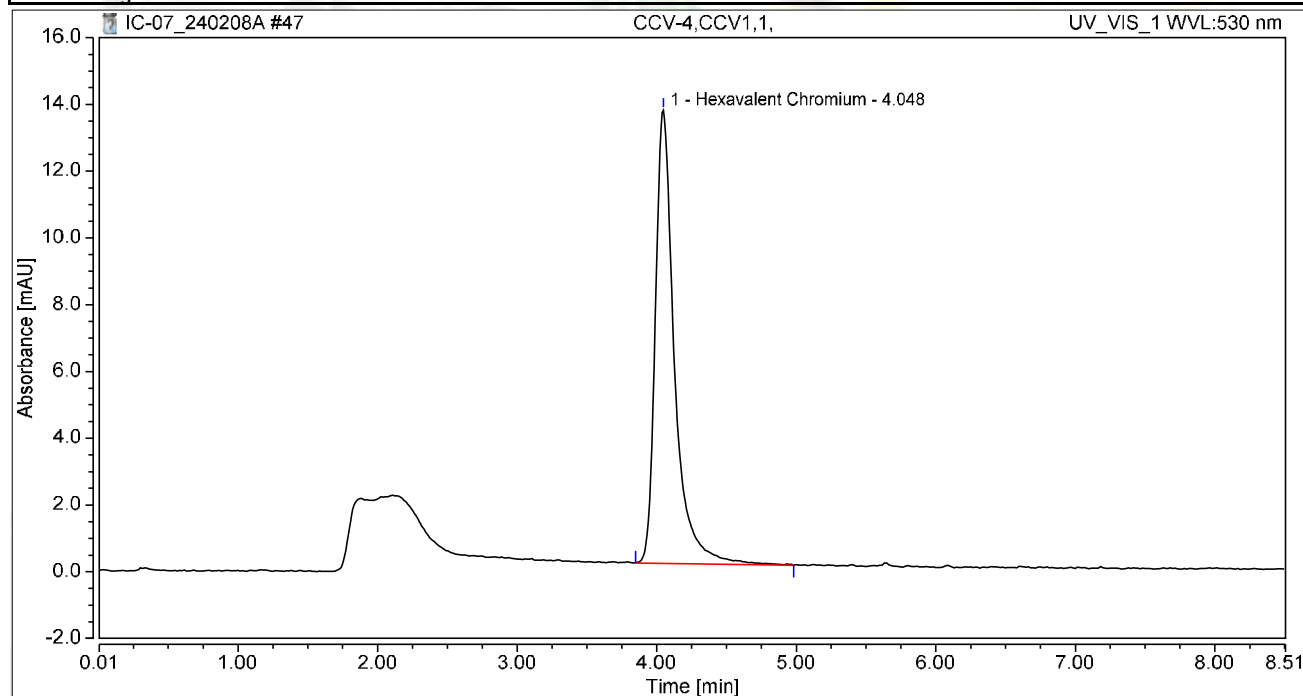
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.298	1.043	100.00	100.00	1.3835
Total:			0.298	1.043	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

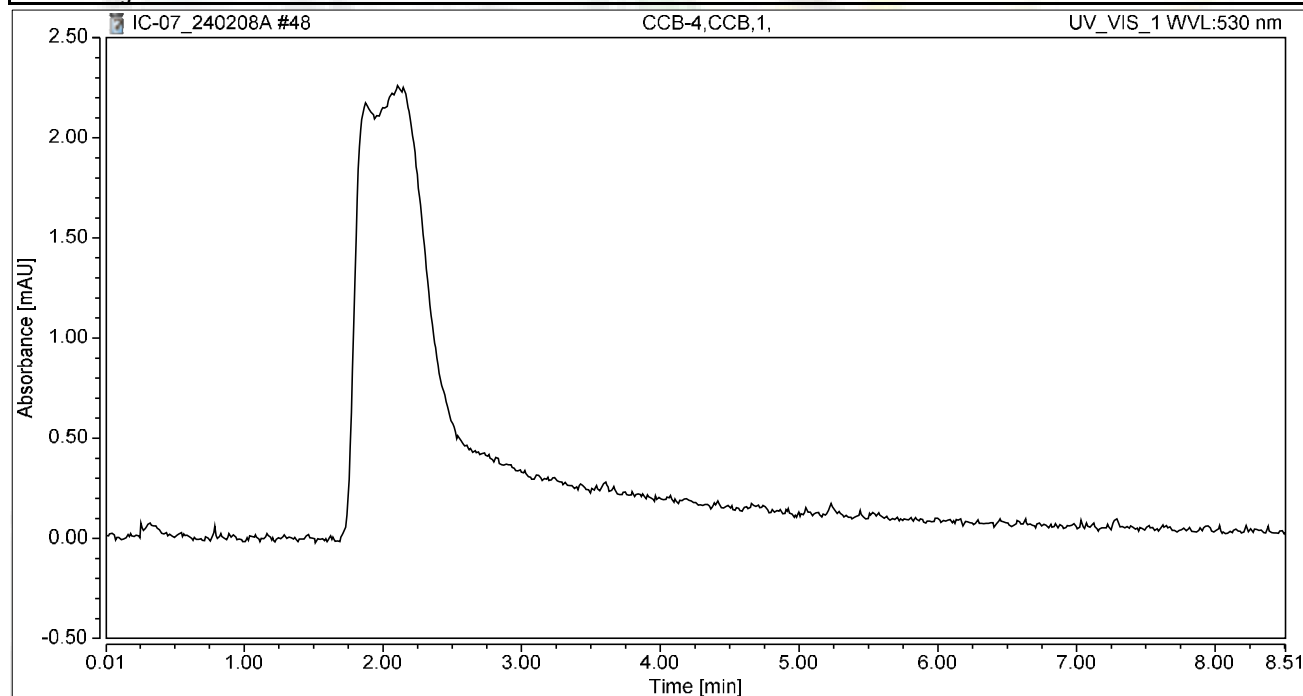
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.161	13.580	100.00	100.00	10.0448
Total:			2.161	13.580	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

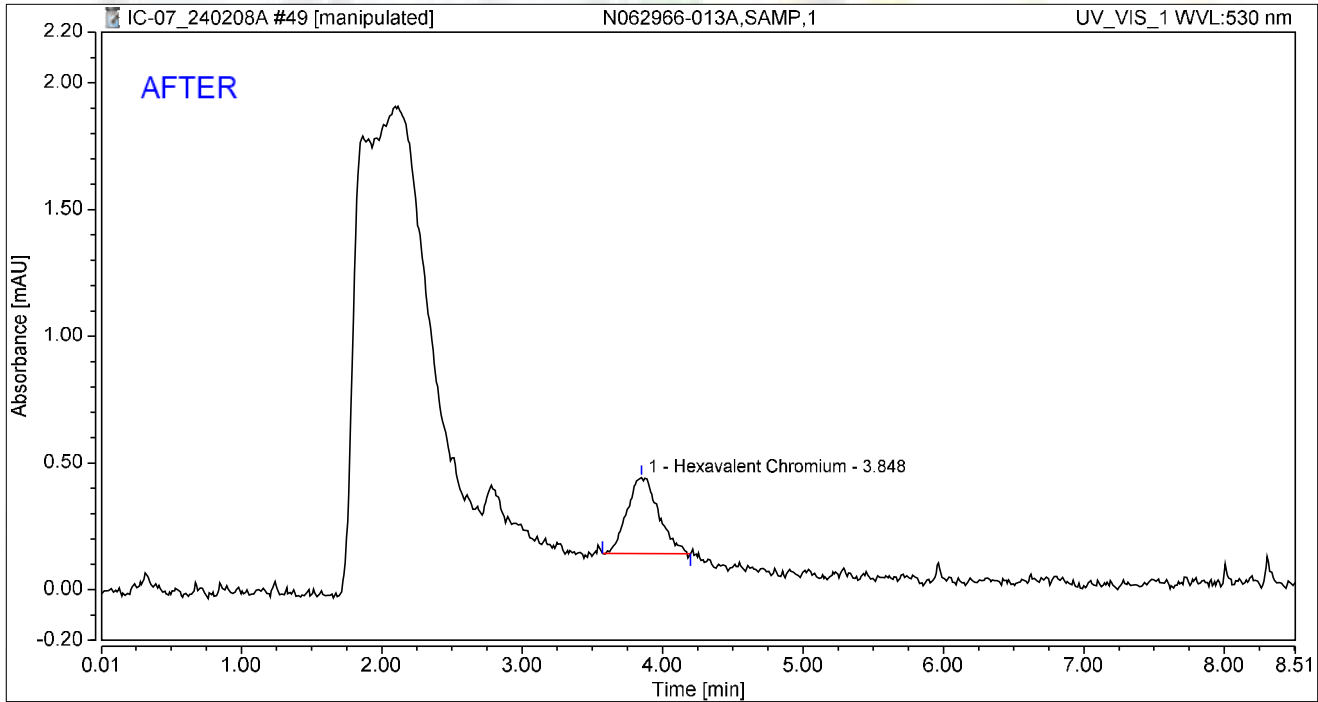
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:23	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.078	0.299	100.00	100.00	0.3613
Total:			0.078	0.299	100.00	100.00	

Reviewed by:

jrb

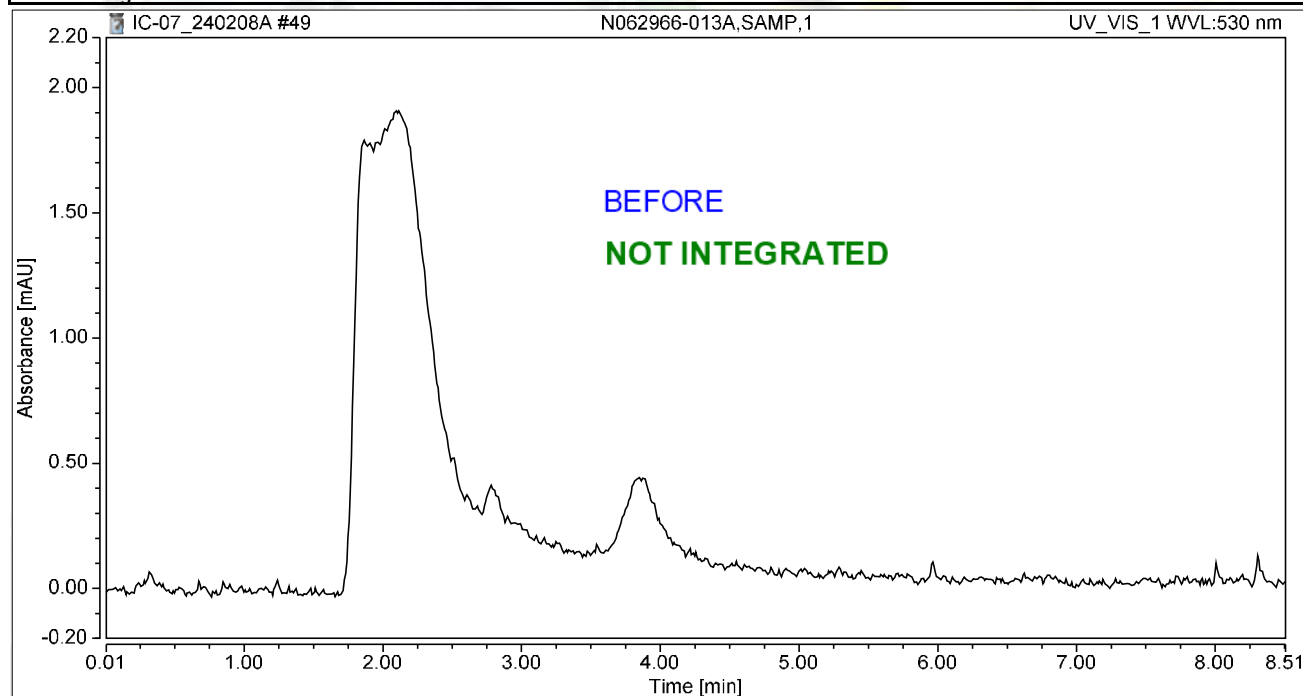
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N062966-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:23	Sample Weight:	1.0000

Chromatogram



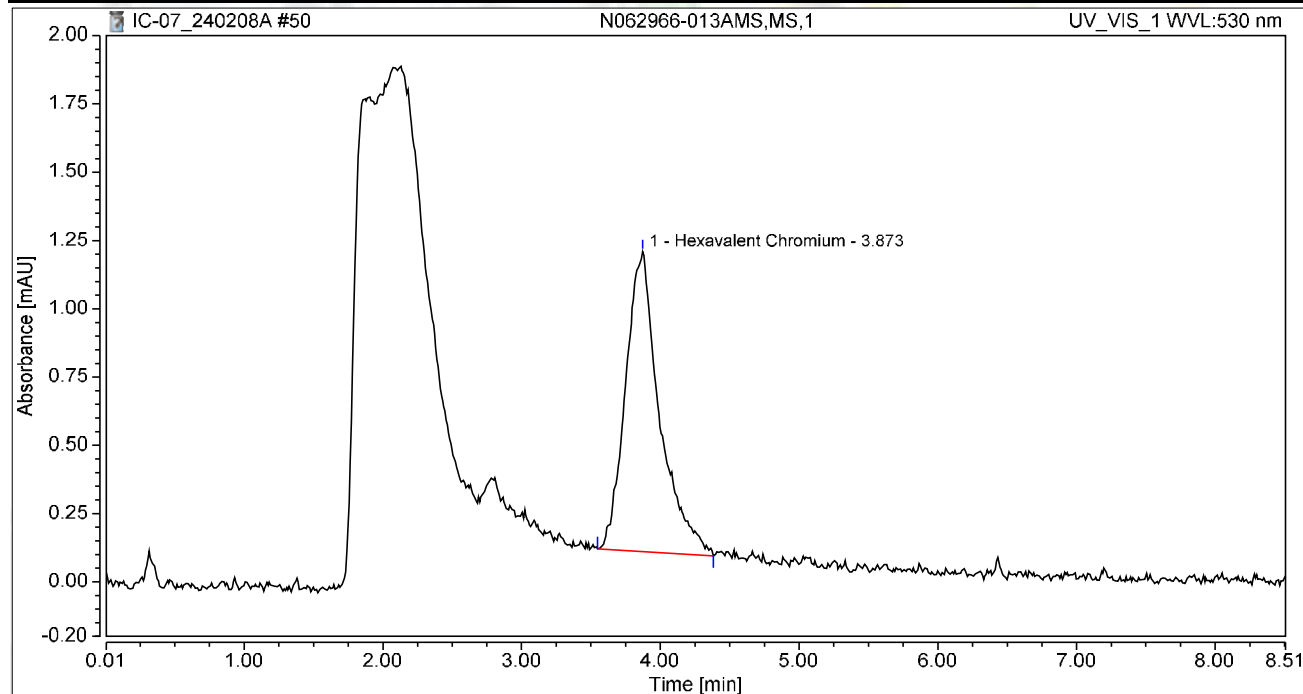
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-013AMS,MS,1	Run Time (min): 8.50
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 16:33	Sample Weight: 1.0000

Chromatogram



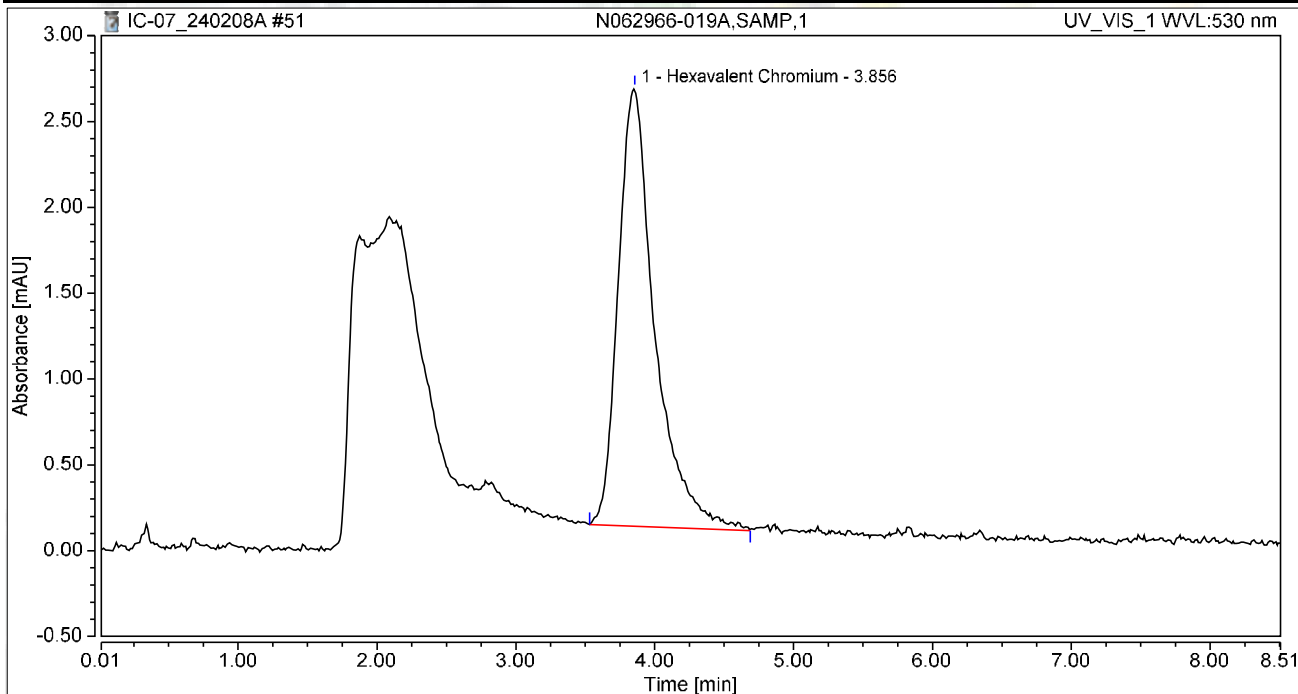
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.312	1.098	100.00	100.00	1.4491
Total:			0.312	1.098	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-019A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:42	Sample Weight:	1.0000

Chromatogram



Integration Results

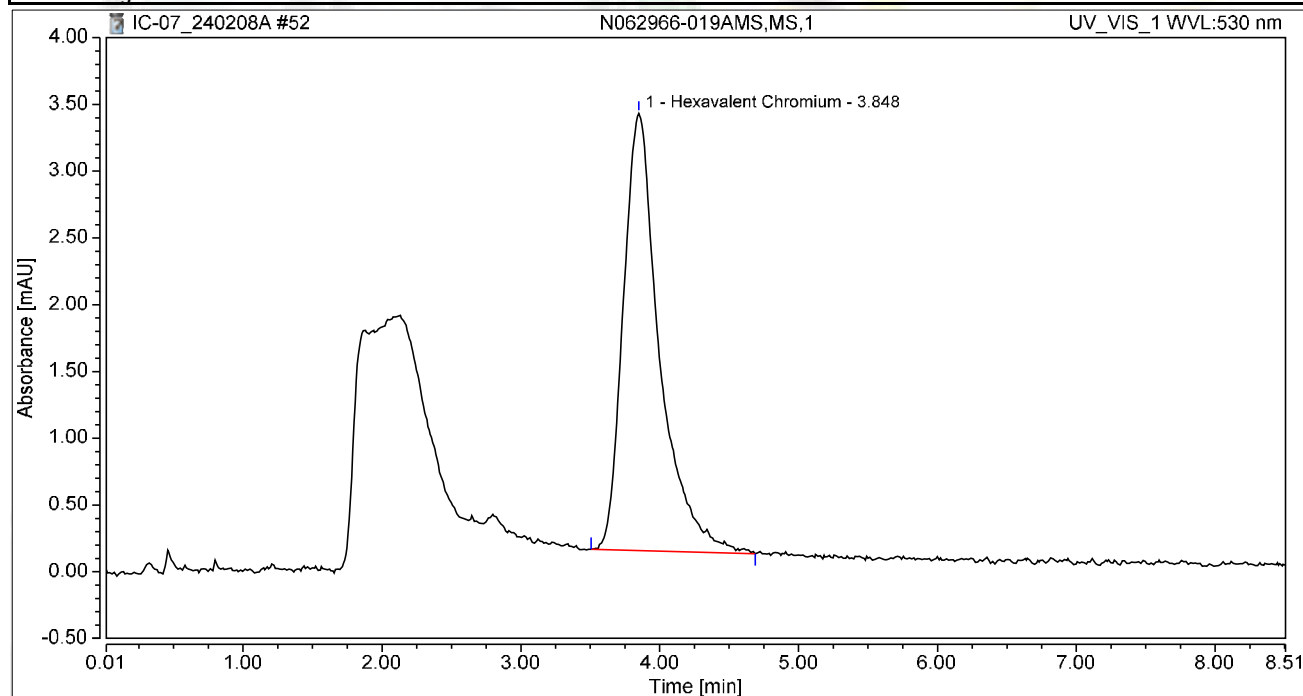
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.776	2.555	100.00	100.00	3.6084
Total:			0.776	2.555	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-019AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 16:52	Sample Weight:	1.0000

Chromatogram



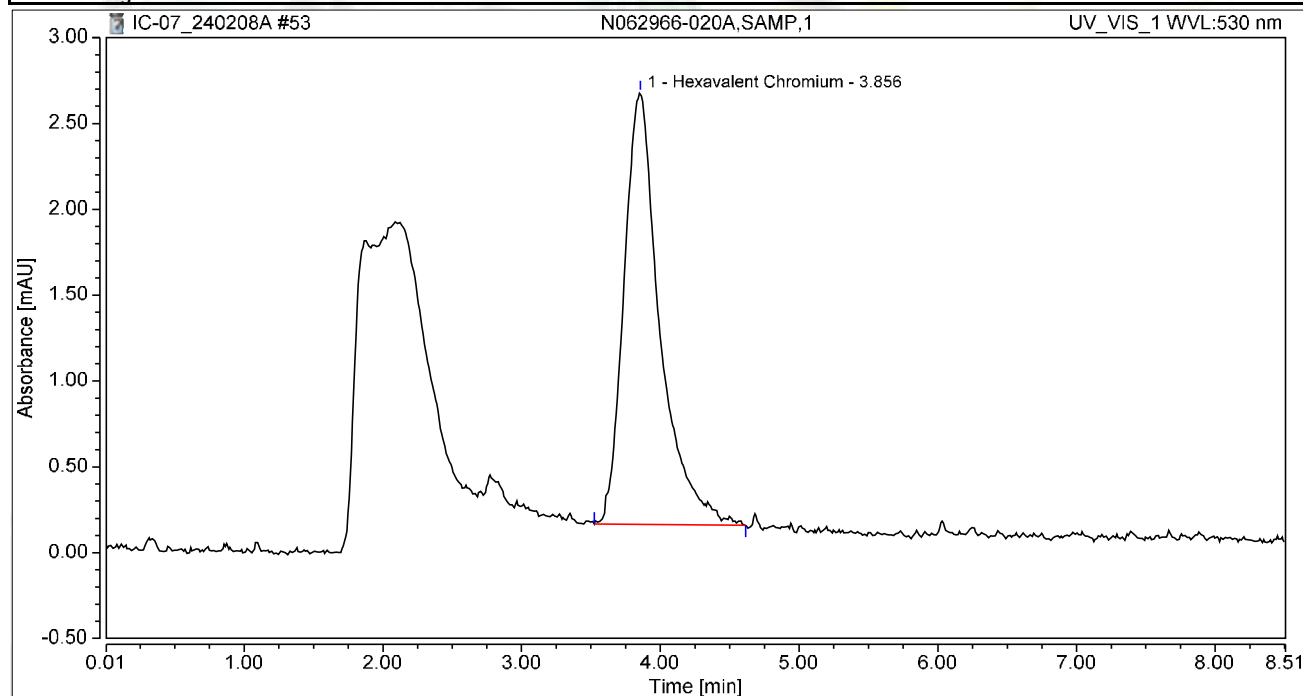
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.990	3.276	100.00	100.00	4.6015
Total:			0.990	3.276	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-020A,SAMP,1	Run Time (min): 8.50
Vial Number:	17	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 17:01	Sample Weight: 1.0000

Chromatogram



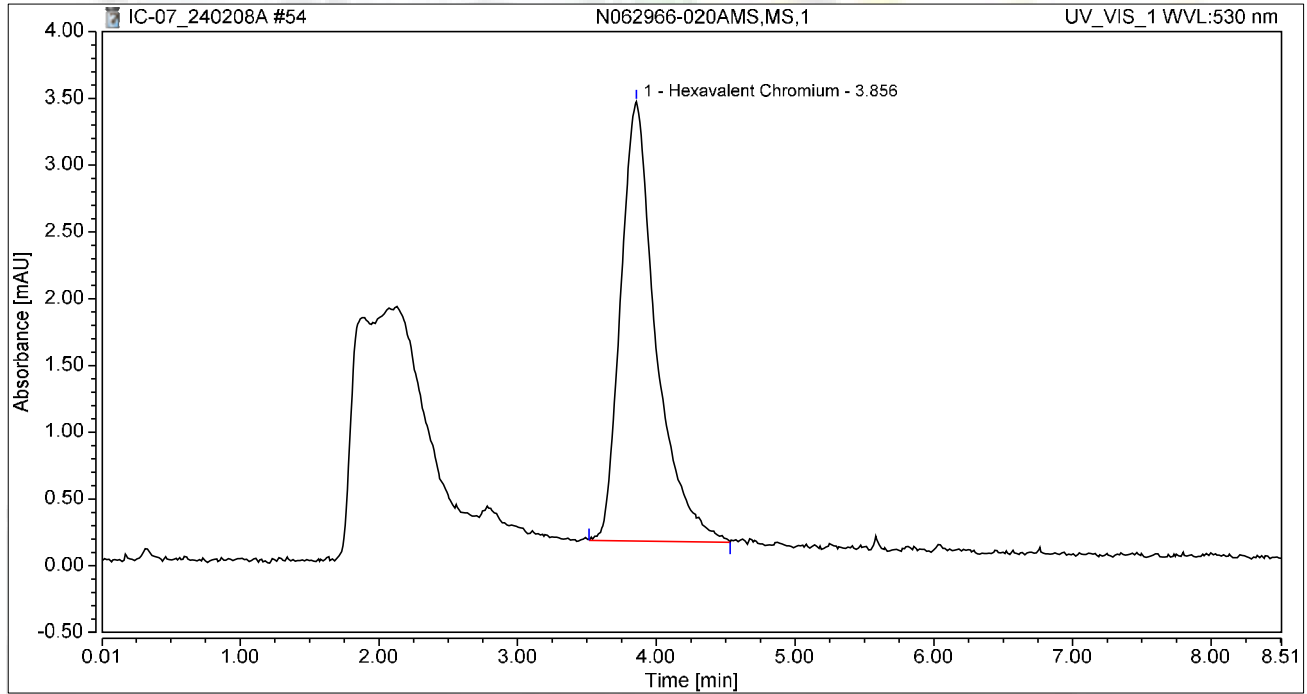
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.754	2.514	100.00	100.00	3.5071
Total:			0.754	2.514	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

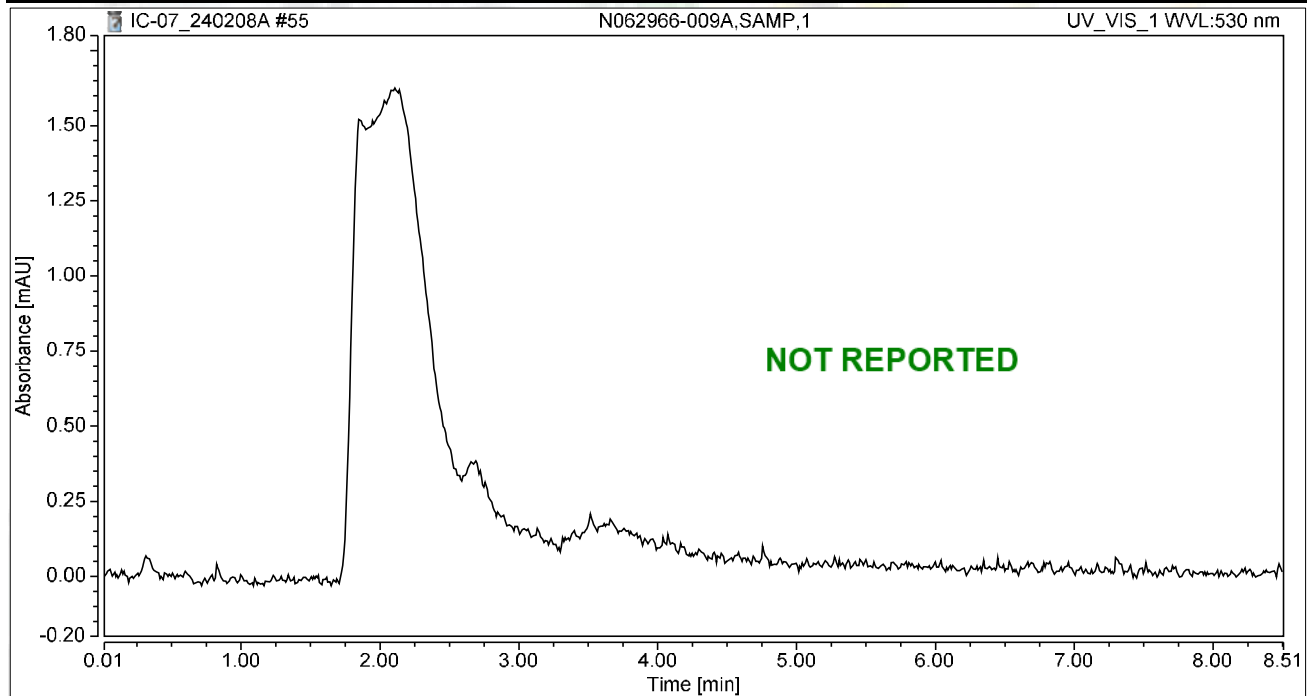
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.969	3.290	100.00	100.00	4.5041
Total:			0.969	3.290	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 17:20	Sample Weight:	1.0000

Chromatogram



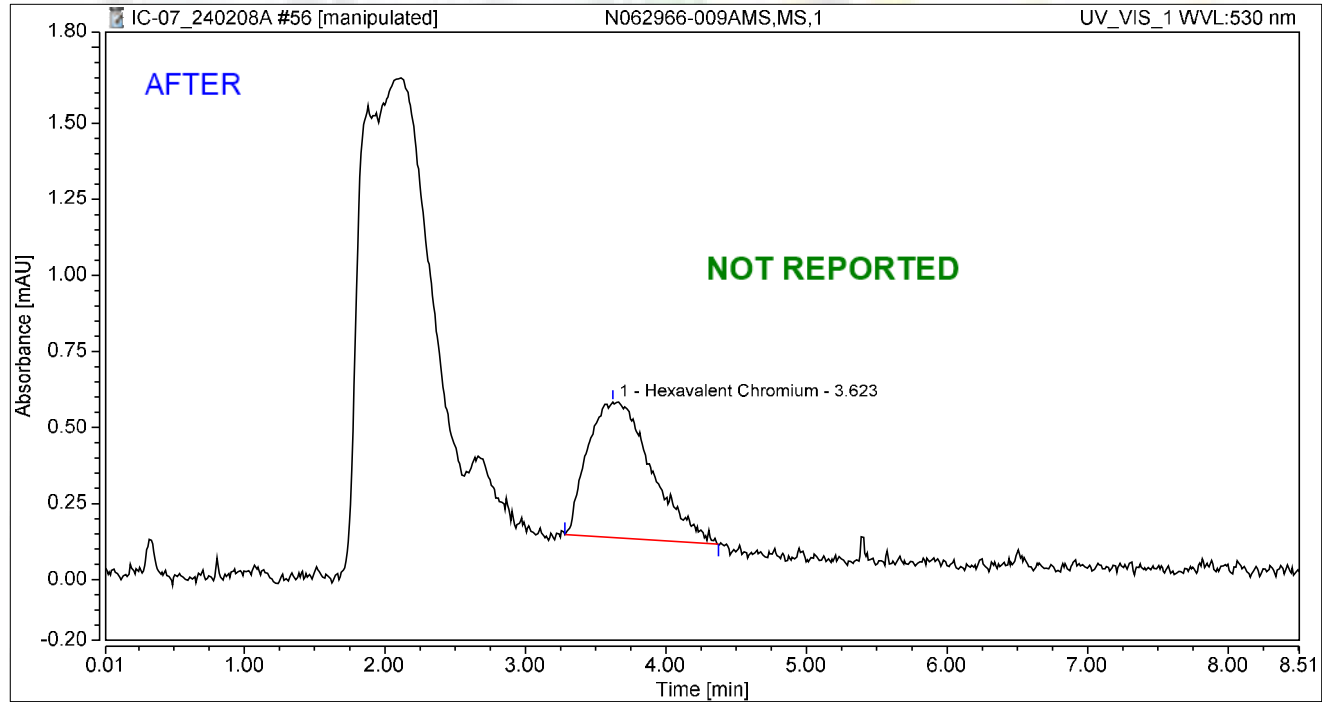
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-009AMS,MS,1	Run Time (min): 8.49
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 17:30	Sample Weight: 1.0000

Chromatogram



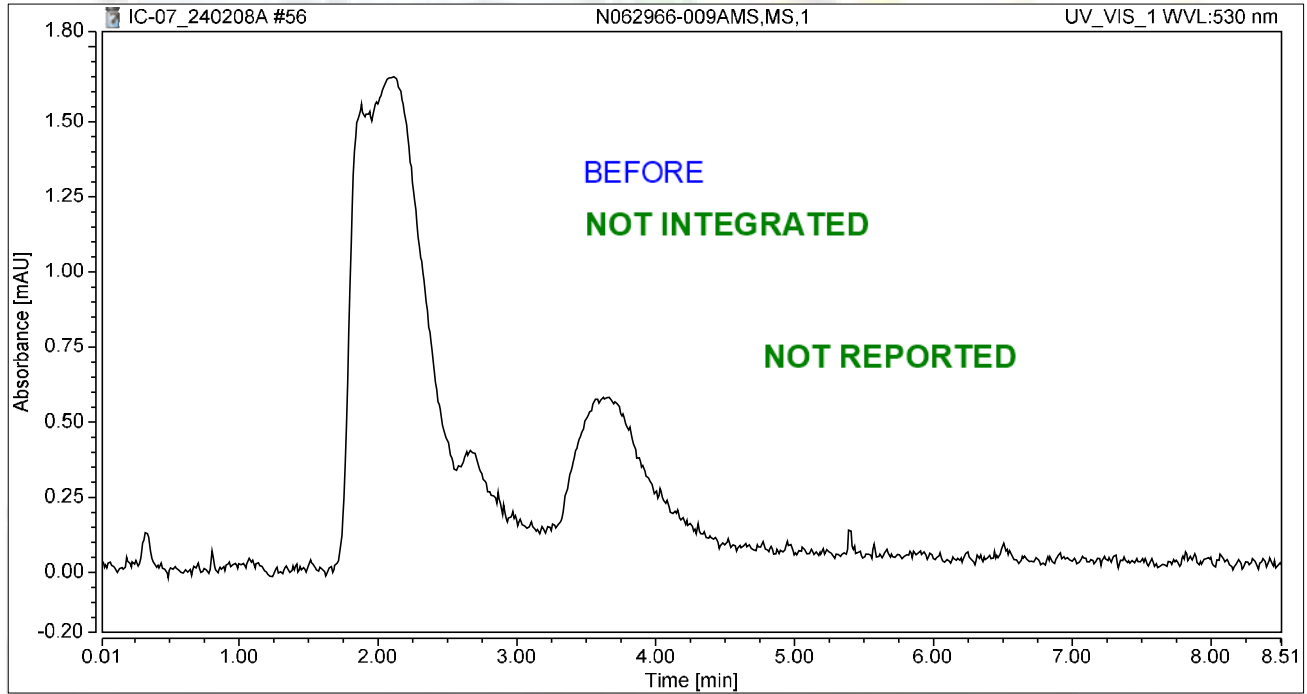
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.623	0.236	0.445	100.00	100.00	1.0964
Total:			0.236	0.445	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-009AMS,MS,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

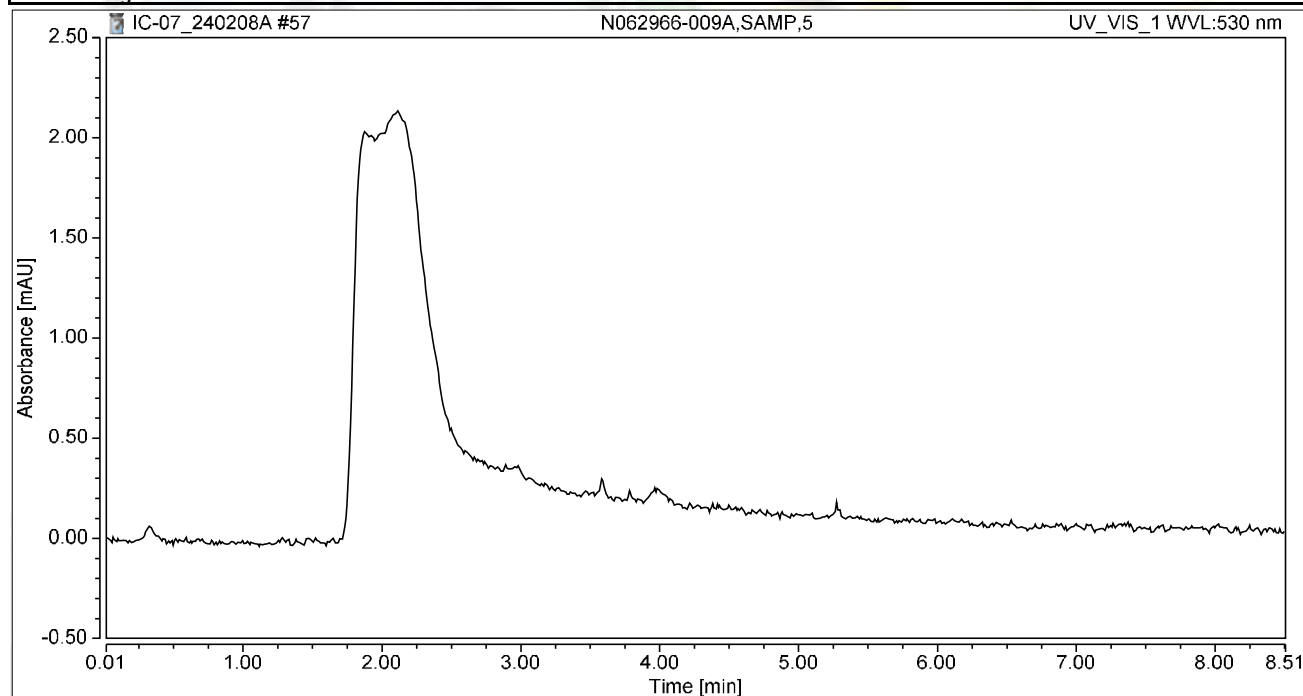
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 17:39	Sample Weight:	1.0000

Chromatogram



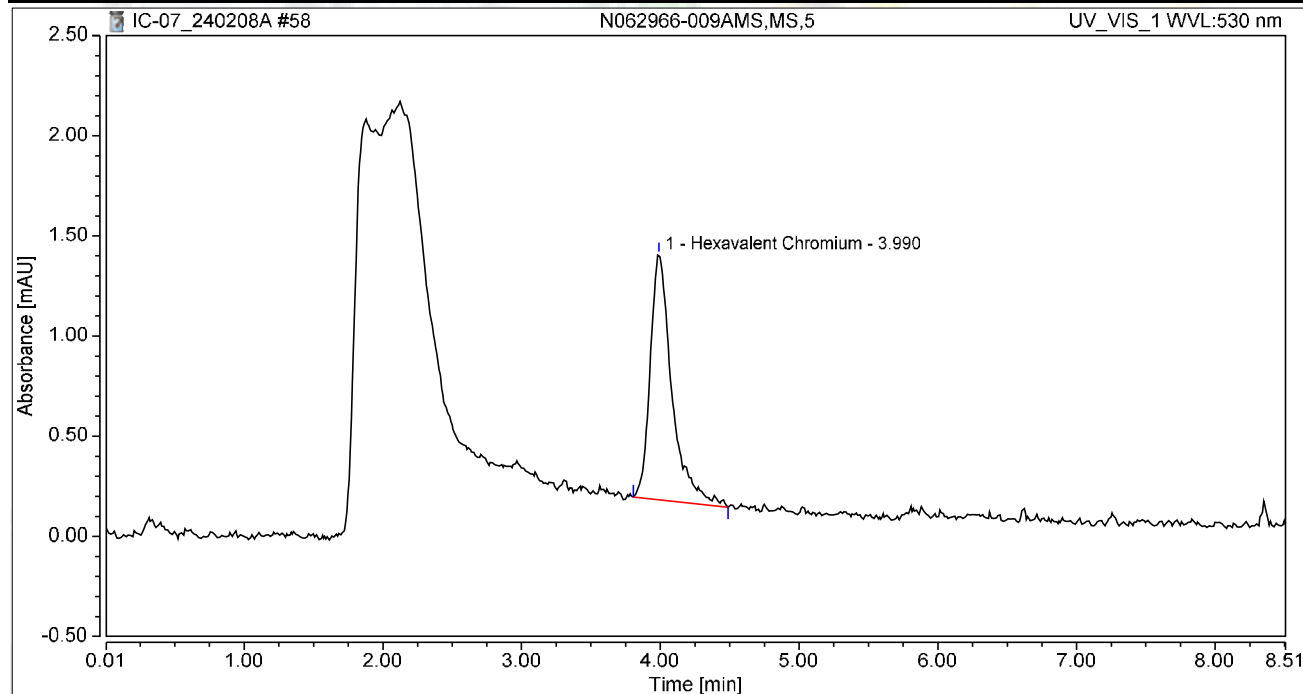
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-009AMS,MS,5	Run Time (min): 8.50
Vial Number:	22	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 17:48	Sample Weight: 1.0000

Chromatogram



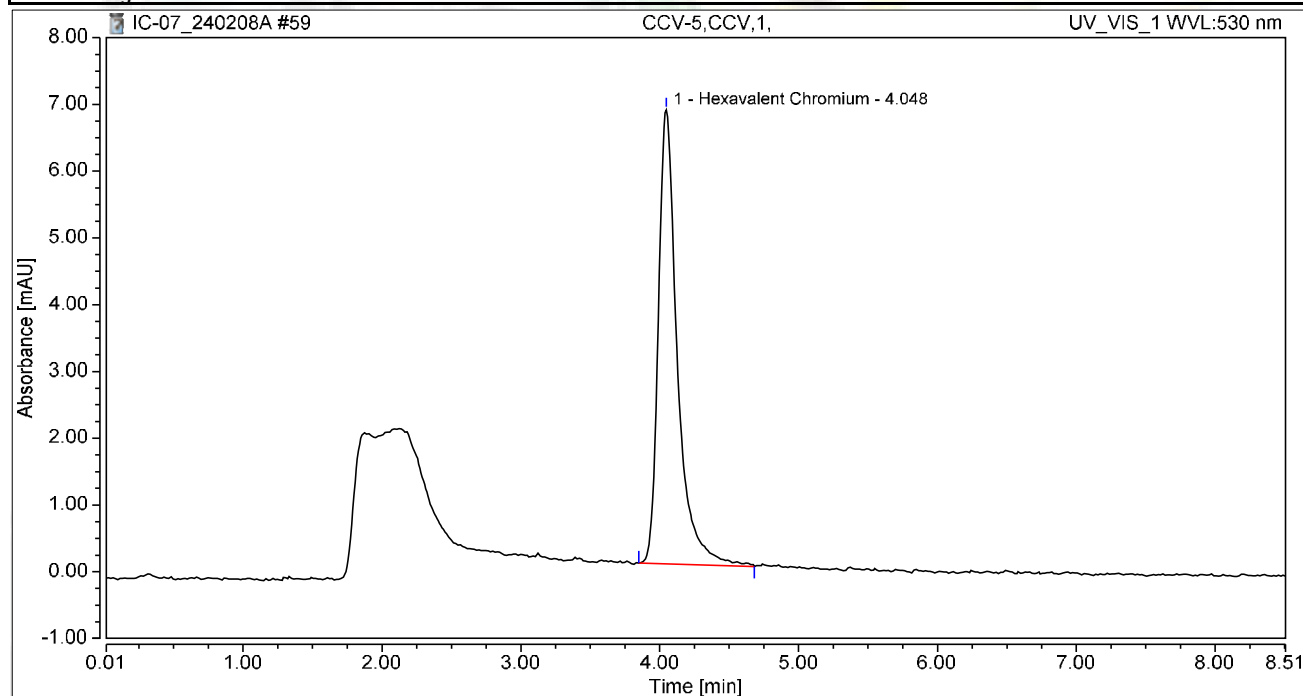
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.222	1.224	100.00	100.00	1.0314
Total:			0.222	1.224	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 17:58	Sample Weight:	1.0000

Chromatogram



Integration Results

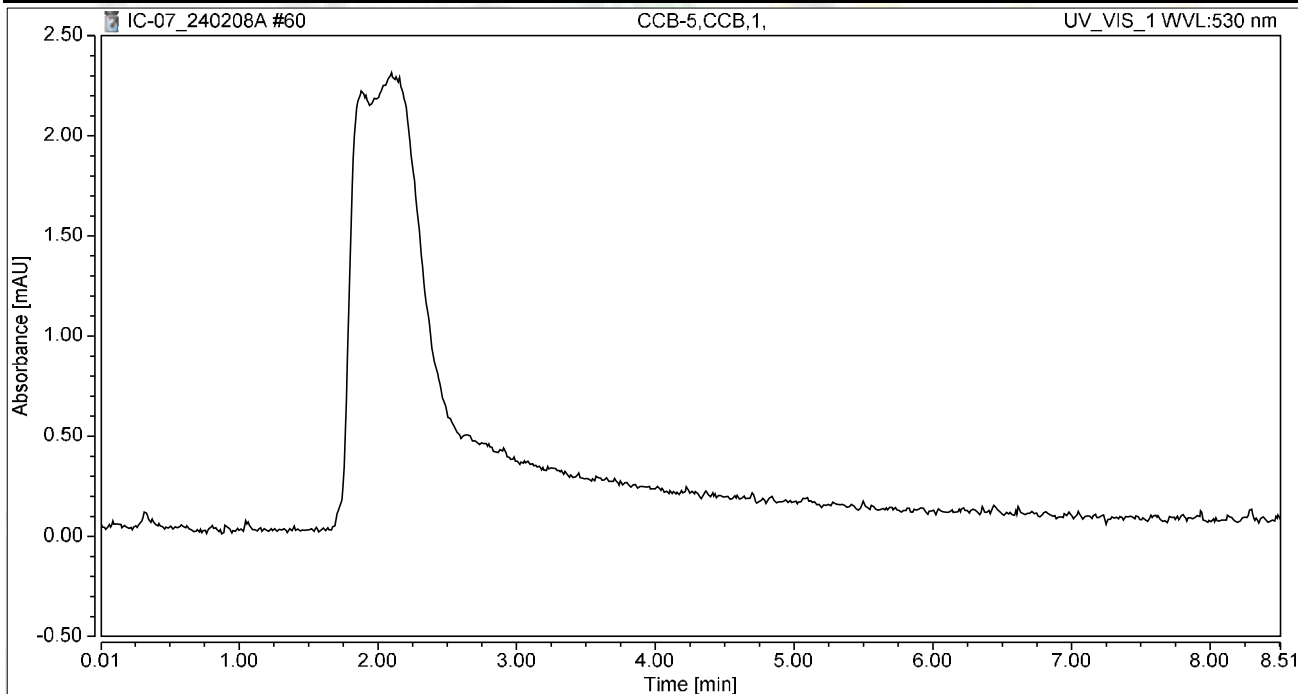
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.076	6.802	100.00	100.00	5.0014
Total:			1.076	6.802	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 18:07	Sample Weight:	1.0000

Chromatogram



Integration Results

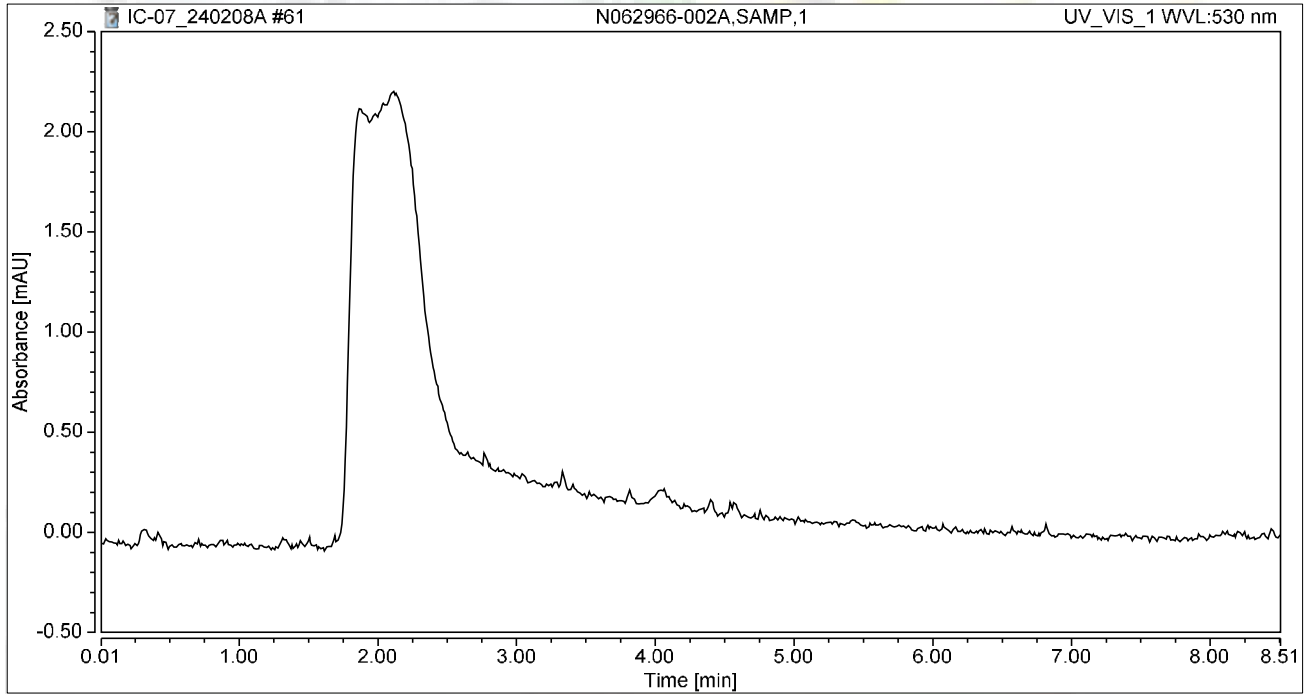
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 18:17	Sample Weight:	1.0000

Chromatogram



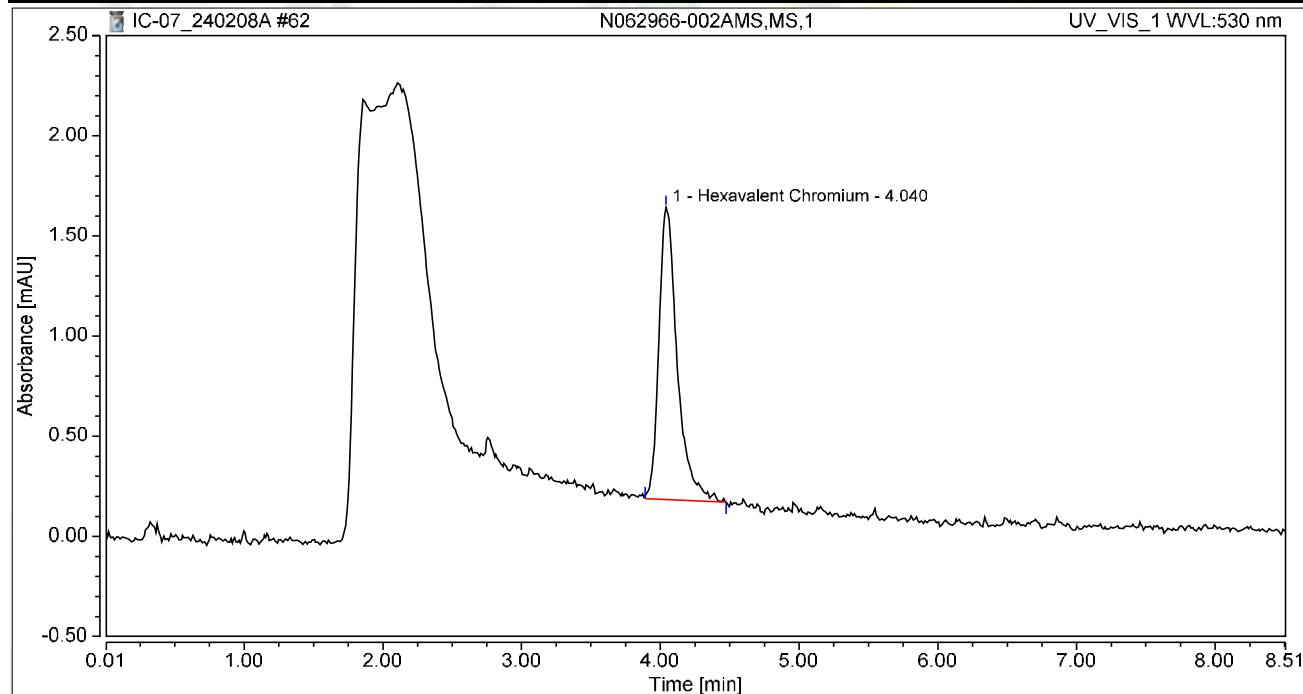
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	26	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 18:26	Sample Weight: 1.0000

Chromatogram



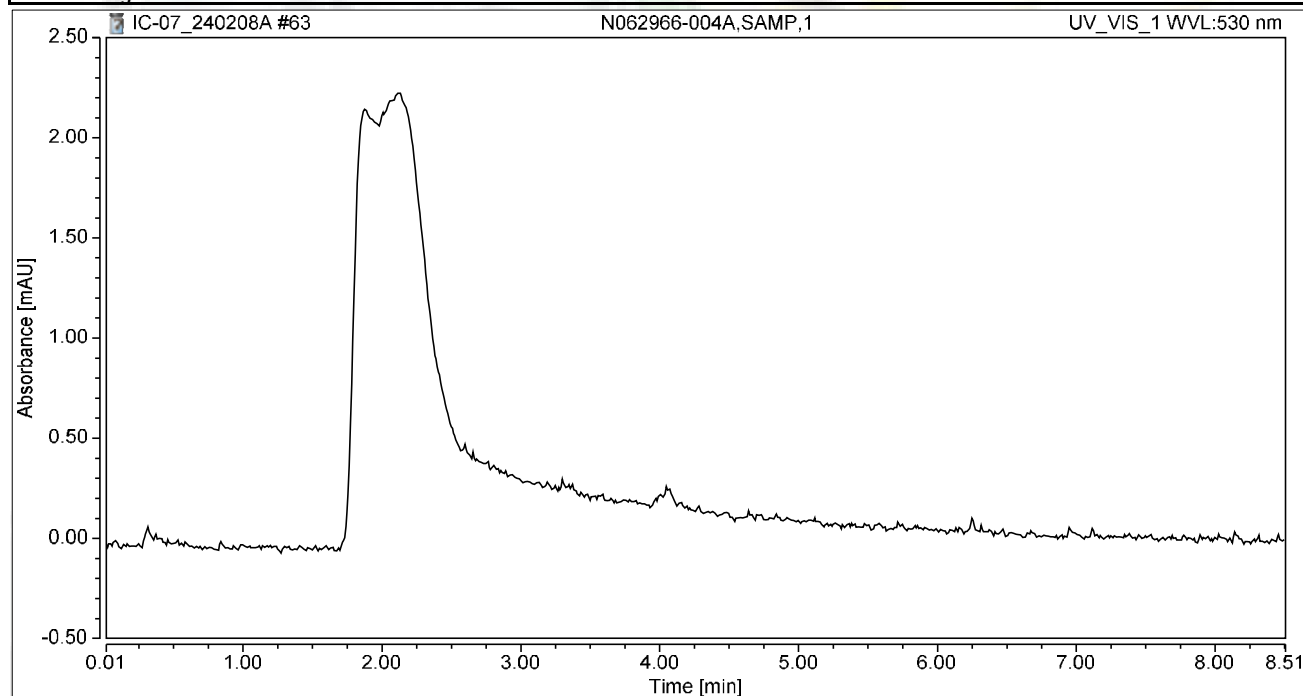
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.225	1.460	100.00	100.00	1.0460
Total:			0.225	1.460	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 18:36	Sample Weight:	1.0000

Chromatogram



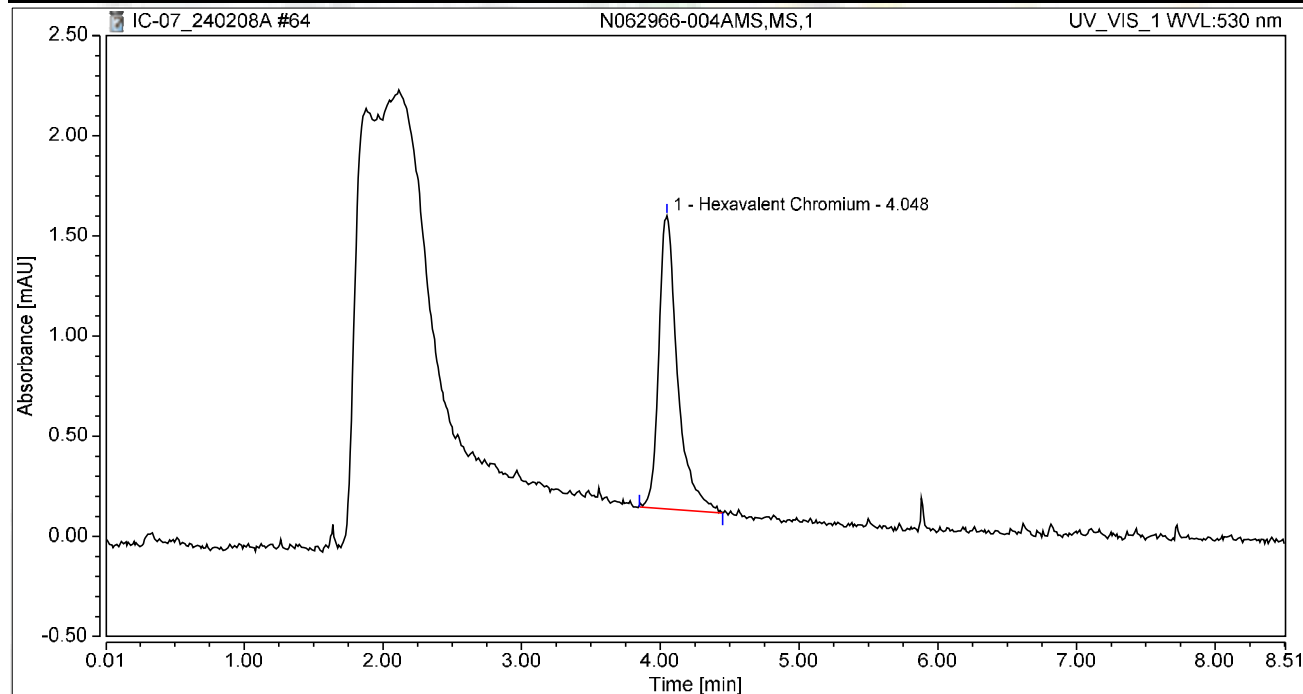
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-004AMS,MS,1	Run Time (min): 8.50
Vial Number:	28	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 18:45	Sample Weight: 1.0000

Chromatogram



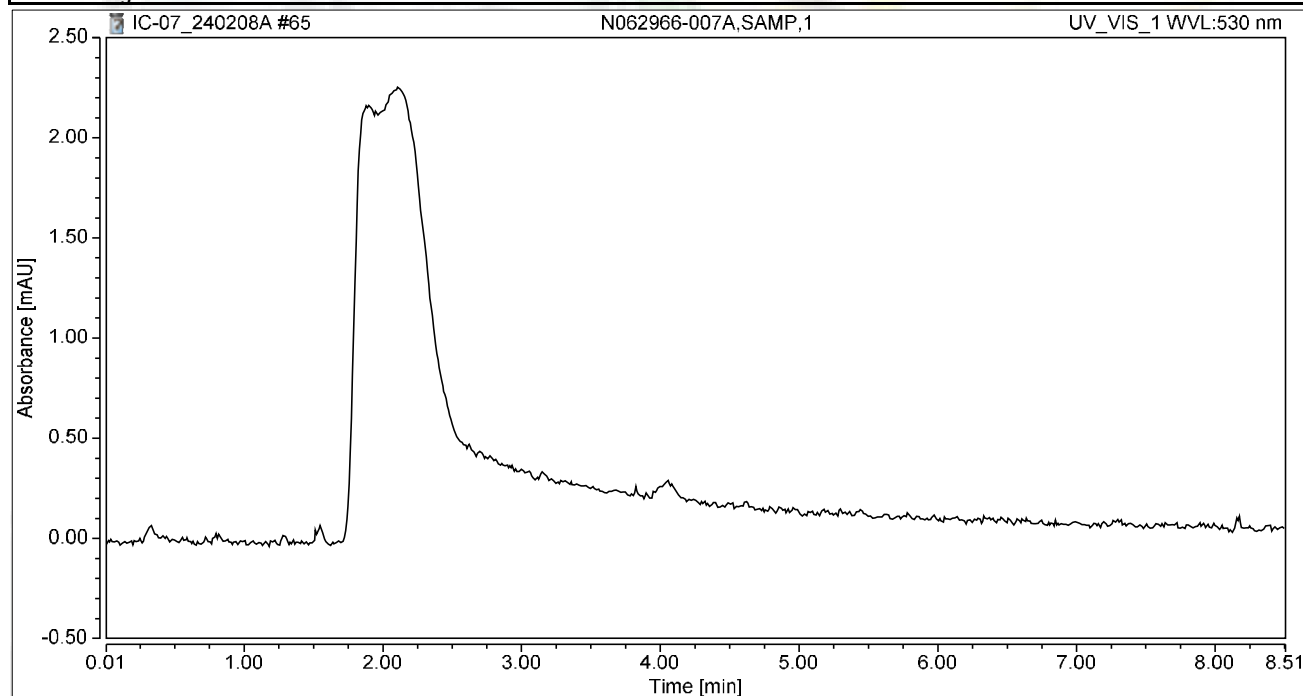
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.230	1.464	100.00	100.00	1.0715
Total:			0.230	1.464	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

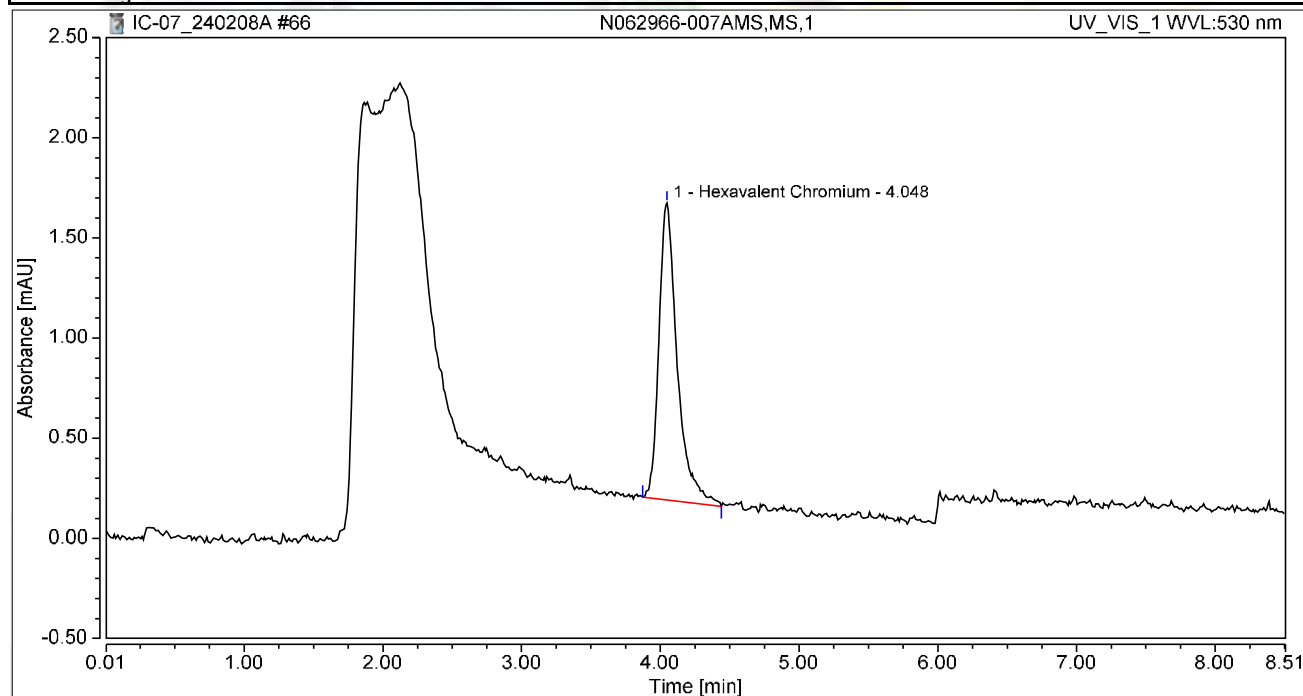
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 19:08	Sample Weight:	1.0000

Chromatogram



Integration Results

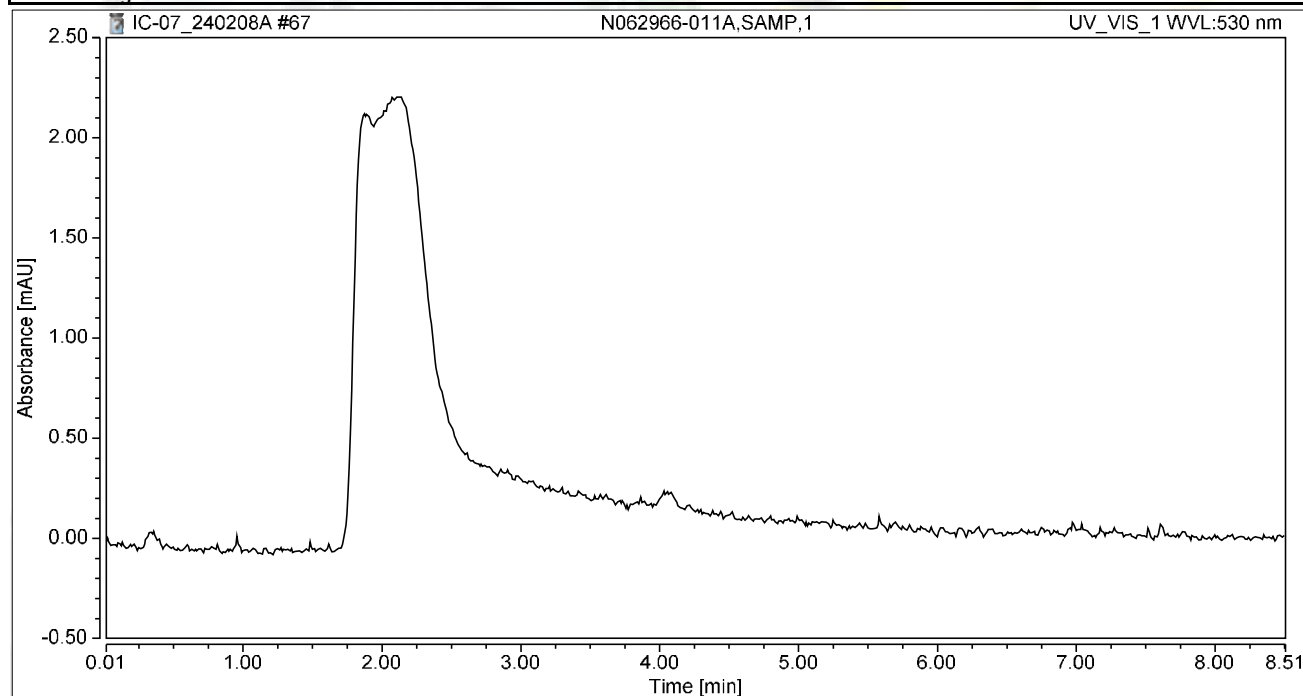
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.227	1.483	100.00	100.00	1.0569
Total:			0.227	1.483	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 19:17	Sample Weight:	1.0000

Chromatogram



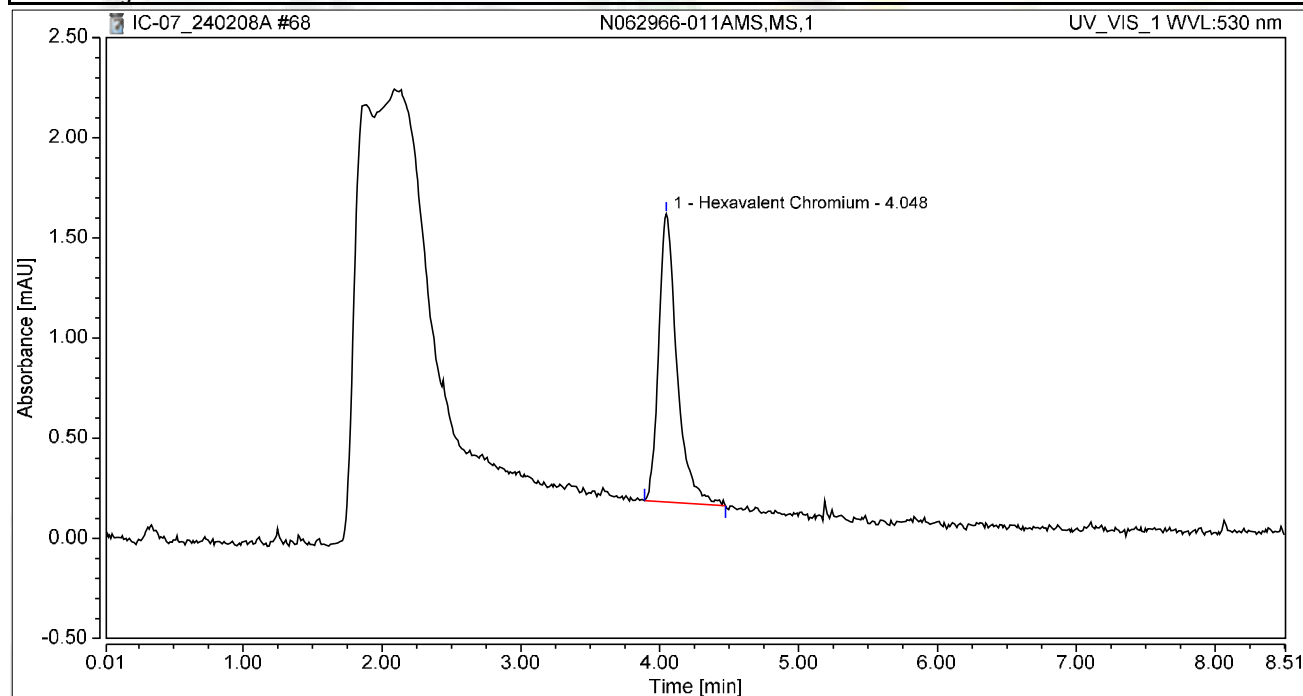
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-011AMS,MS,1	Run Time (min): 8.49
Vial Number:	32	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 19:26	Sample Weight: 1.0000

Chromatogram



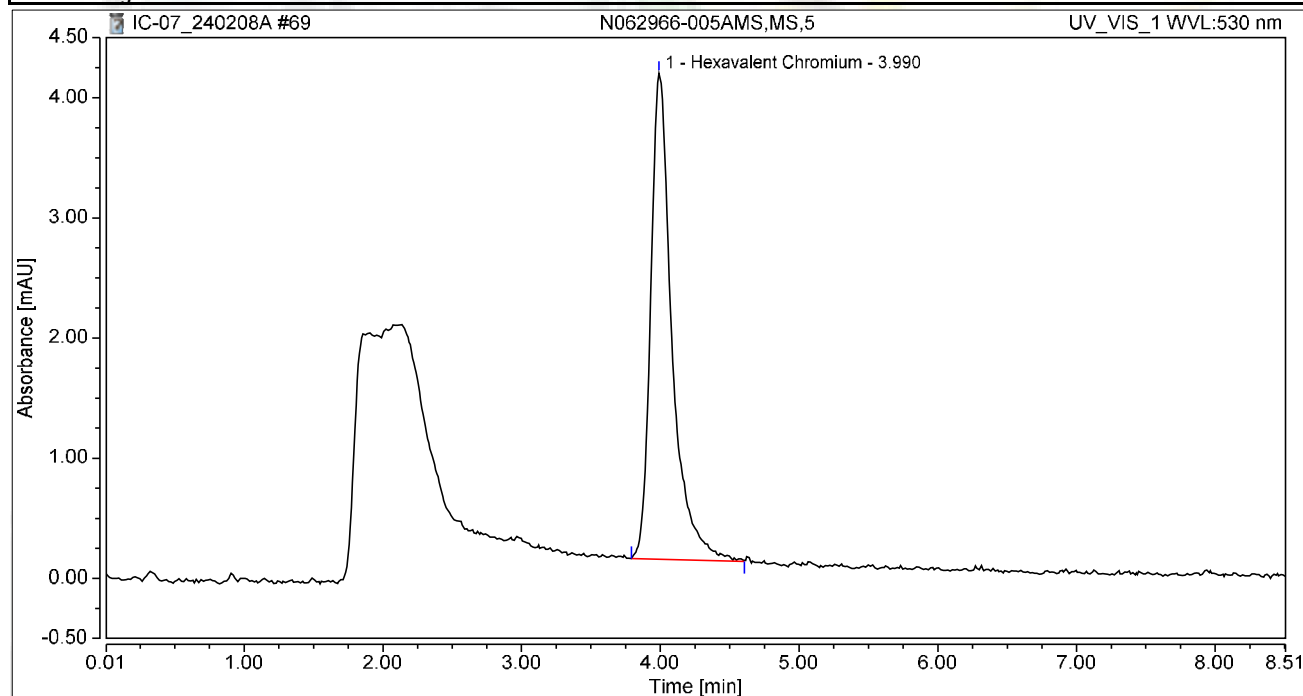
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.220	1.440	100.00	100.00	1.0238
Total:			0.220	1.440	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-005AMS,MS,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 19:36	Sample Weight:	1.0000

Chromatogram



Integration Results

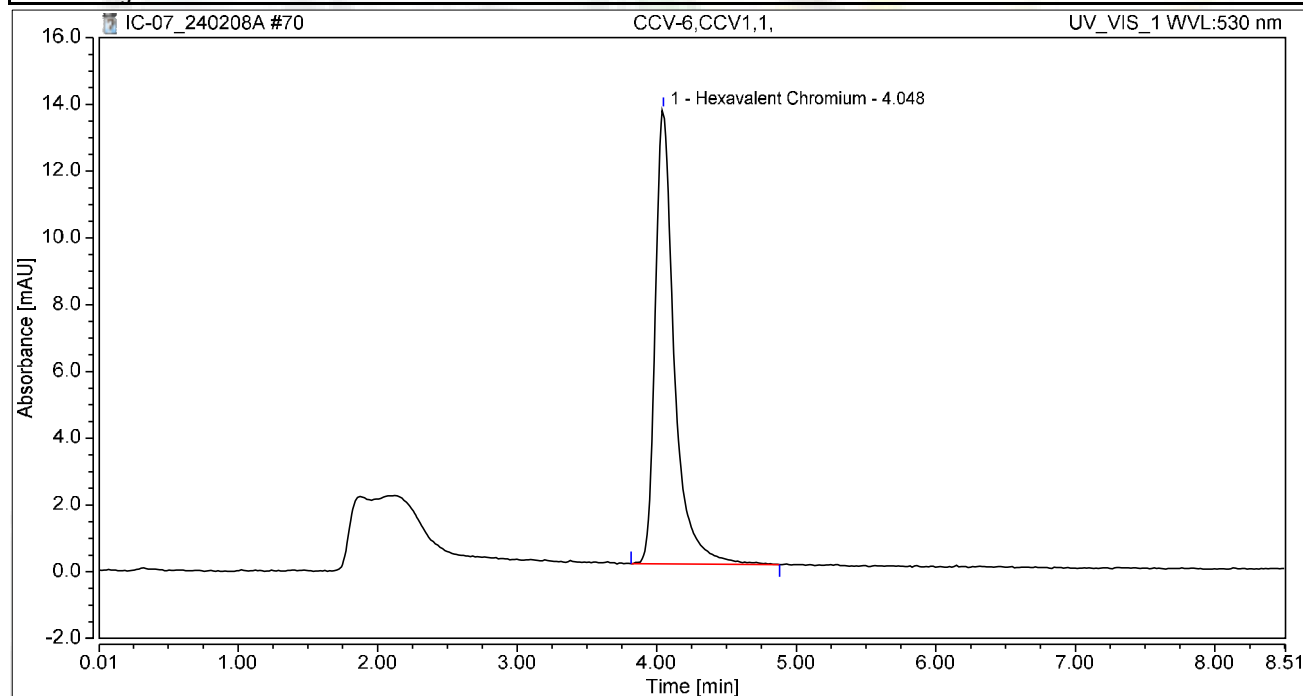
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.990	0.722	4.043	100.00	100.00	3.3560
Total:			0.722	4.043	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 19:45	Sample Weight:	1.0000

Chromatogram



Integration Results

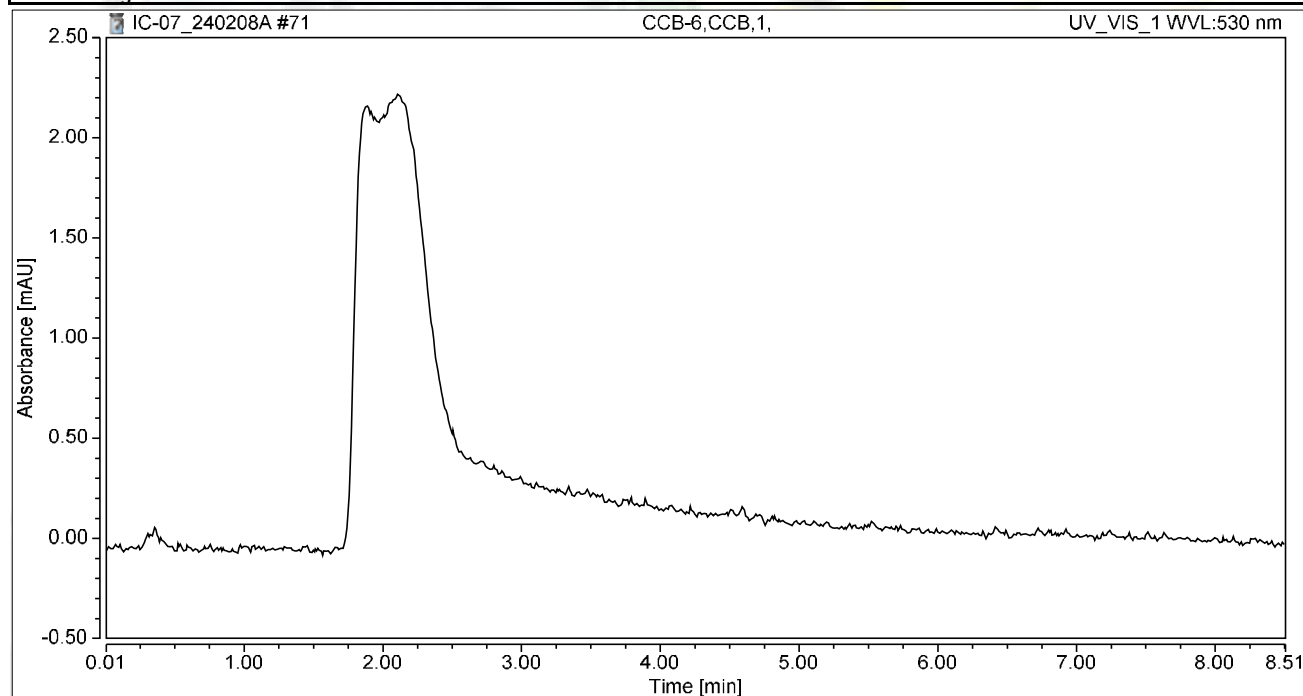
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.161	13.615	100.00	100.00	10.0458
Total:			2.161	13.615	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 19:55	Sample Weight:	1.0000

Chromatogram



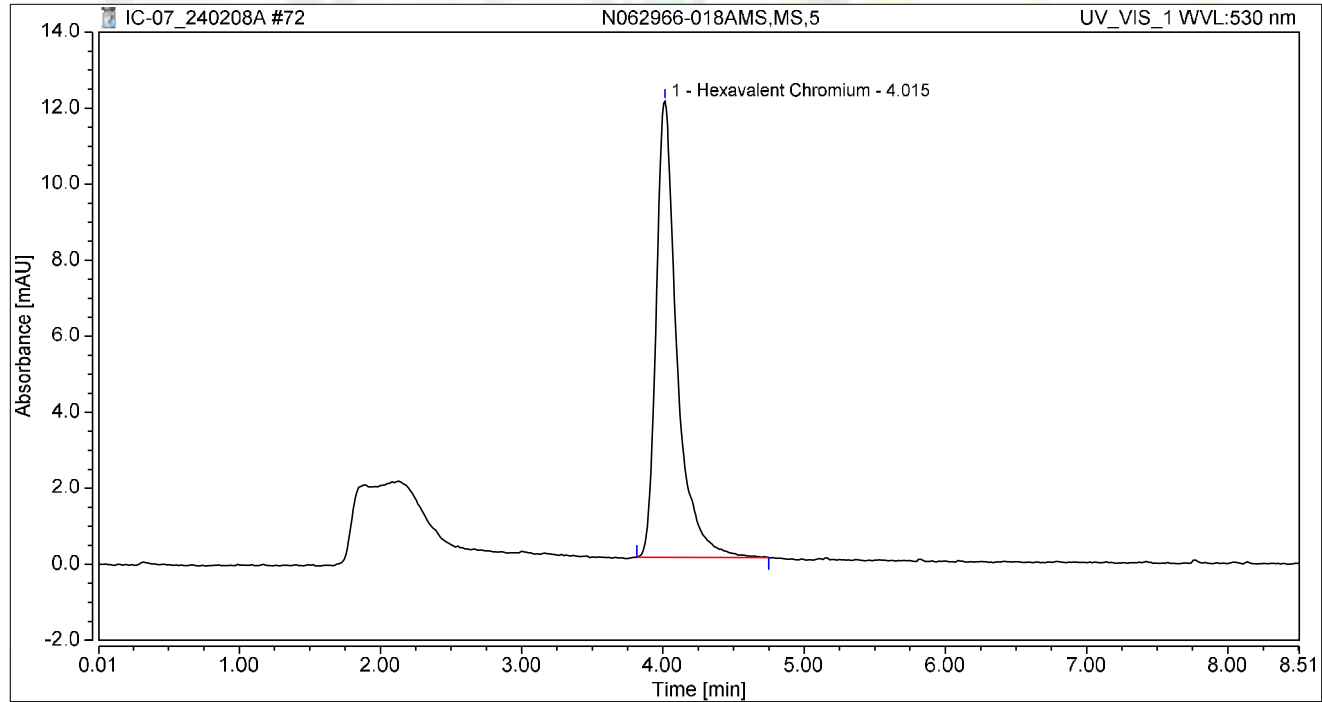
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-018AMS,MS,5	Run Time (min): 8.50
Vial Number:	36	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 20:04	Sample Weight: 1.0000

Chromatogram

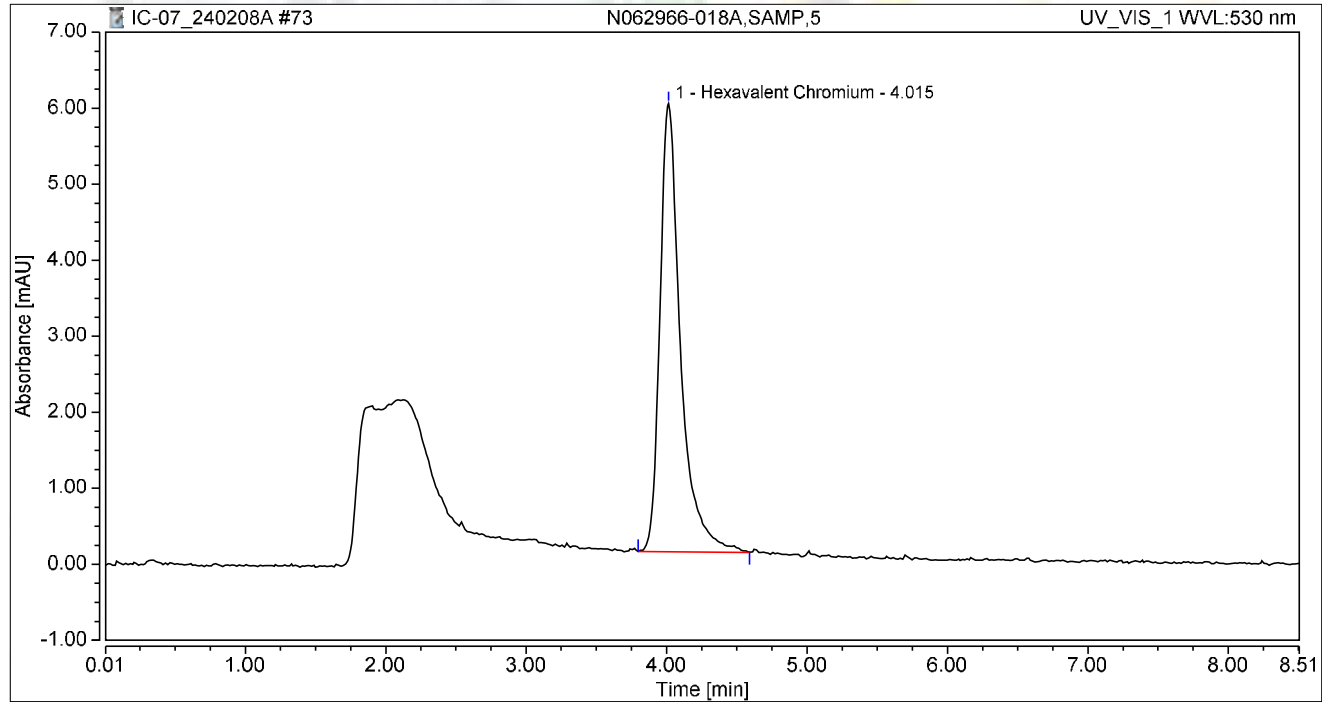


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	2.043	11.995	100.00	100.00	9.4969
Total:			2.043	11.995	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-018A,SAMP,5	Run Time (min): 8.50
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 20:14	Sample Weight: 1.0000

Chromatogram

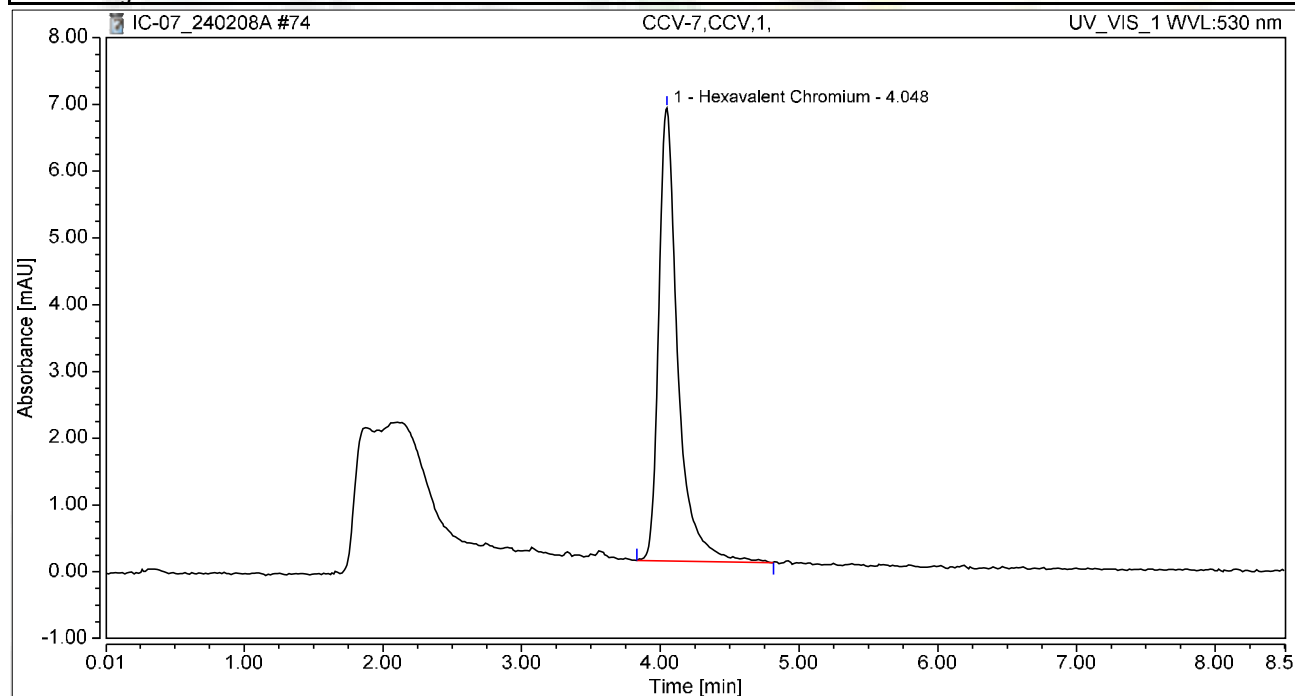


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.005	5.895	100.00	100.00	4.6704
Total:			1.005	5.895	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-7,CCV,1,	Run Time (min): 8.50
Vial Number:	38	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	08/Feb/24 20:23	Sample Weight: 1.0000

Chromatogram



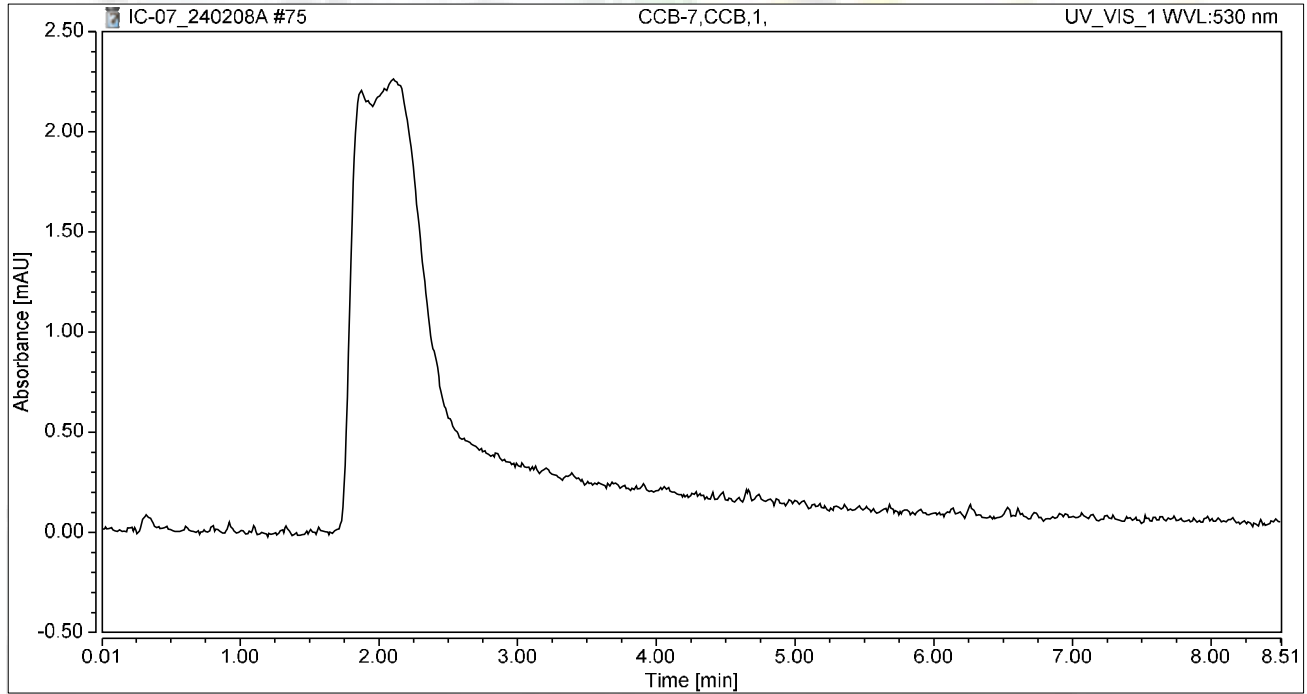
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.088	6.788	100.00	100.00	5.0591
Total:			1.088	6.788	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 20:33	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

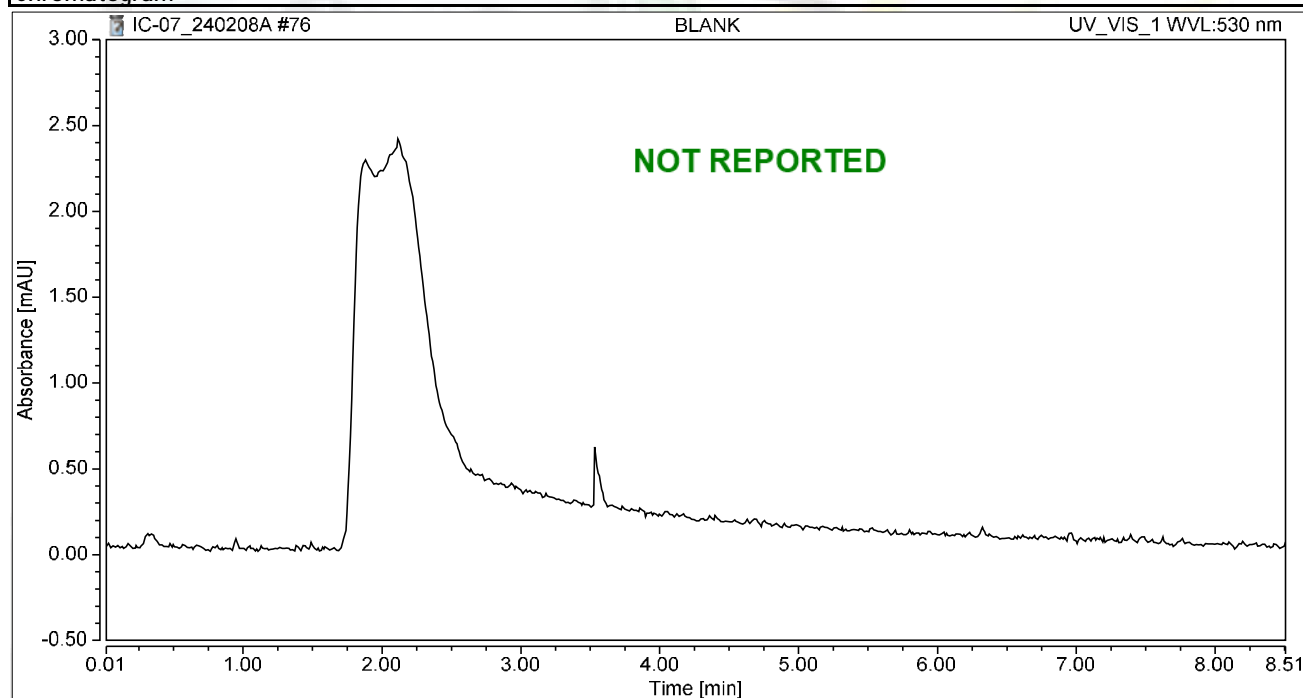
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	08/Feb/24 20:42	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691


"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240209A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/09/24 8:58 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/09/24 9:14 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/09/24 9:23 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/09/24 9:33 AM	Reported
13	MB-R181381	MBLK	1	Hexavalent Chromium	02/09/24 9:42 AM	Reported
14	LCS-R181381	LCS	1	Hexavalent Chromium	02/09/24 9:51 AM	Reported
15	N062966-021A	SAMP	1	Hexavalent Chromium	02/09/24 10:04 AM	Reported
16	N062966-021AMS	MS	1	Hexavalent Chromium	02/09/24 10:14 AM	Reported
17	N063001-001A	SAMP	1	Hexavalent Chromium	02/09/24 10:48 AM	Reported
18	N063001-001AMS	MS	1	Hexavalent Chromium	02/09/24 10:58 AM	Reported
19	N063001-001AMSD	MSD	1	Hexavalent Chromium	02/09/24 11:07 AM	Reported
20	N063001-014A	SAMP	1	Hexavalent Chromium	02/09/24 11:17 AM	Reported
21	N063001-014AMS	MS	1	Hexavalent Chromium	02/09/24 11:26 AM	Not Reported
22	N063001-009A	SAMP	5	Hexavalent Chromium	02/09/24 11:36 AM	Not Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/09/24 11:44 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/09/24 11:54 AM	Reported
25	N063001-011A	SAMP	5	Hexavalent Chromium	02/09/24 12:03 PM	Reported
26	N063001-011AMS	MS	5	Hexavalent Chromium	02/09/24 12:13 PM	Reported
27	N063001-007A	SAMP	1	Hexavalent Chromium	02/09/24 12:22 PM	Reported
28	N063001-007AMS	MS	1	Hexavalent Chromium	02/09/24 12:32 PM	Reported
29	N063001-003A	SAMP	1	Hexavalent Chromium	02/09/24 12:41 PM	Not Reported
30	N063001-003AMS	MS	1	Hexavalent Chromium	02/09/24 12:51 PM	Not Reported
31	N063001-004A	SAMP	1	Hexavalent Chromium	02/09/24 1:00 PM	Reported
32	N063001-009A	SAMP	5	Hexavalent Chromium	02/09/24 1:13 PM	Reported
33	N063001-005A	SAMP	1	Hexavalent Chromium	02/09/24 1:24 PM	Reported
34	N063001-005AMS	MS	1	Hexavalent Chromium	02/09/24 1:33 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/09/24 1:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/09/24 1:52 PM	Reported
37	N063001-006A	SAMP	1	Hexavalent Chromium	02/09/24 2:02 PM	Reported
38	N063001-006AMS	MS	1	Hexavalent Chromium	02/09/24 2:11 PM	Reported
39	N063001-012A	SAMP	1	Hexavalent Chromium	02/09/24 2:21 PM	Reported
40	N063001-012AMS	MS	1	Hexavalent Chromium	02/09/24 2:30 PM	Reported
41	N063001-015A	SAMP	1	Hexavalent Chromium	02/09/24 2:40 PM	Reported
42	N063001-015AMS	MS	1	Hexavalent Chromium	02/09/24 2:49 PM	Reported

Reviewed by:

 2/20/2024

INJECTION LOG: 240209A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063001-016A	SAMP	1	Hexavalent Chromium	02/09/24 2:58 PM	Reported
44	N063001-016AMS	MS	1	Hexavalent Chromium	02/09/24 3:08 PM	Reported
45	N063001-017A	SAMP	1	Hexavalent Chromium	02/09/24 3:17 PM	Reported
46	N063001-017AMS	MS	1	Hexavalent Chromium	02/09/24 3:27 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/09/24 3:36 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/09/24 3:46 PM	Reported
49	N063001-018A	SAMP	1	Hexavalent Chromium	02/09/24 3:55 PM	Reported
50	N063001-018AMS	MS	1	Hexavalent Chromium	02/09/24 4:05 PM	Reported
51	N063001-002A	SAMP	1	Hexavalent Chromium	02/09/24 4:14 PM	Reported
52	N063001-002AMS	MS	1	Hexavalent Chromium	02/09/24 4:23 PM	Reported
53	N063001-013A	SAMP	1	Hexavalent Chromium	02/09/24 4:33 PM	Reported
54	N063001-013AMS	MS	1	Hexavalent Chromium	02/09/24 4:42 PM	Reported
55	N063001-019A	SAMP	1	Hexavalent Chromium	02/09/24 4:52 PM	Reported
56	N063001-019AMS	MS	1	Hexavalent Chromium	02/09/24 5:01 PM	Reported
57	N063001-010A	SAMP	5	Hexavalent Chromium	02/09/24 5:11 PM	Reported
58	N063001-010AMS	MS	5	Hexavalent Chromium	02/09/24 5:20 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/09/24 5:30 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/09/24 5:39 PM	Reported
61	N063001-009AMS	MS	5	Hexavalent Chromium	02/09/24 5:49 PM	Reported
62	N063001-008A	SAMP	1	Hexavalent Chromium	02/09/24 5:58 PM	Reported
63	N063001-008AMS	MS	1	Hexavalent Chromium	02/09/24 6:08 PM	Reported
64	N063001-008ADUP	DUP	1	Hexavalent Chromium	02/09/24 6:17 PM	Reported
65	N063001-008AMSD	MSD	1	Hexavalent Chromium	02/09/24 6:26 PM	Not Reported
66	N063001-004AMS	MS	1	Hexavalent Chromium	02/09/24 6:36 PM	Reported
67	N063001-014AMS	MS	1	Hexavalent Chromium	02/09/24 6:45 PM	Reported
68	CCV-6	CCV1	1	Hexavalent Chromium	02/09/24 6:55 PM	Reported
69	CCB-6	CCB	1	Hexavalent Chromium	02/09/24 7:04 PM	Reported
70	BLANK	BLANK	1	Hexavalent Chromium	02/09/24 7:14 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240209A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	10/Feb/24 12:03:51
No. of Injections:	73	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/09/2024 08:58	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/09/2024 09:14	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV,2,	3	1000	Unknown		02/09/2024 09:23	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/09/2024 09:33	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/09/2024 09:42	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/09/2024 09:51	Finished	LCS @5ppb, IWST-231228B
15	N062966-021A,SAMF	1	1000	Unknown		02/09/2024 10:04	Finished	SAMP,10 mL
16	N062966-021AMS,MS	2	1000	Unknown		02/09/2024 10:14	Finished	MS (1ppb), IWST-231228B,10r
17	N063001-001A,SAMF	2	1000	Unknown		02/09/2024 10:48	Finished	SAMP,10 mL
18	N063001-001AMS,MS	3	1000	Unknown		02/09/2024 10:58	Finished	MS (1ppb), IWST-231228B,10r
19	N063001-001AMSD,N	4	1000	Unknown		02/09/2024 11:07	Finished	MSD (1ppb), IWST-231228B,10r
20	N063001-014A,SAMF	5	1000	Unknown		02/09/2024 11:17	Finished	SAMP,10 mL
21	N063001-014AMS,MS	6	1000	Unknown		02/09/2024 11:26	Finished	MS (5ppb), IWST-231228B,10r
22	N063001-009A,SAMF	7	1000	Unknown		02/09/2024 11:36	Finished	SAMP,2>10 mL
23	CCV-2,CCV,1,	8	1000	Unknown		02/09/2024 11:44	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	9	1000	Unknown		02/09/2024 11:54	Finished	CCB R240103B
25	N063001-011A,SAMF	10	1000	Unknown		02/09/2024 12:03	Finished	SAMP,2>10 mL
26	N063001-011AMS,MS	11	1000	Unknown		02/09/2024 12:13	Finished	MS (5ppb), IWST-231228B,2>
27	N063001-007A,SAMF	12	1000	Unknown		02/09/2024 12:22	Finished	SAMP,10 mL
28	N063001-007AMS,MS	13	1000	Unknown		02/09/2024 12:32	Finished	MS (1ppb), IWST-231228B,10r
29	N063001-003A,SAMF	14	1000	Unknown		02/09/2024 12:41	Finished	MS (5ppb), IWST-231228B,10r
30	N063001-003AMS,MS	15	1000	Unknown		02/09/2024 12:51	Finished	SAMP,2>10 mL
31	N063001-004A,SAMF	16	1000	Unknown		02/09/2024 13:00	Finished	MS (5ppb), IWST-231228B,2>
32	N063001-009A,SAMF	1	1000	Unknown		02/09/2024 13:13	Finished	SAMP,2>10 mL
33	N063001-005A,SAMF	2	1000	Unknown		02/09/2024 13:24	Finished	MS (5ppb), IWST-231228B,2>
34	N063001-005AMS,MS	3	1000	Unknown		02/09/2024 13:33	Finished	SAMP,2>10 mL
35	CCV-3,CCV,1,	4	1000	Unknown		02/09/2024 13:43	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	5	1000	Unknown		02/09/2024 13:52	Finished	CCB R240103B
37	N063001-006A,SAMF	6	1000	Unknown		02/09/2024 14:02	Finished	SAMP,10 mL
38	N063001-006AMS,MS	7	1000	Unknown		02/09/2024 14:11	Finished	MS (1ppb), IWST-231228B,10r
39	N063001-012A,SAMF	8	1000	Unknown		02/09/2024 14:21	Finished	SAMP,10 mL
40	N063001-012AMS,MS	9	1000	Unknown		02/09/2024 14:30	Finished	MS (1ppb), IWST-231228B,10r
41	N063001-015A,SAMF	10	1000	Unknown		02/09/2024 14:40	Finished	SAMP,10 mL
42	N063001-015AMS,MS	11	1000	Unknown		02/09/2024 14:49	Finished	MS (1ppb), IWST-231228B,10r
43	N063001-016A,SAMF	12	1000	Unknown		02/09/2024 14:58	Finished	SAMP,10 mL
44	N063001-016AMS,MS	13	1000	Unknown		02/09/2024 15:08	Finished	MS (1ppb), IWST-231228B,10r
45	N063001-017A,SAMF	14	1000	Unknown		02/09/2024 15:17	Finished	SAMP,10 mL
46	N063001-017AMS,MS	15	1000	Unknown		02/09/2024 15:27	Finished	MS (1ppb), IWST-231228B,10r
47	CCV-4,CCV,1,	16	1000	Unknown		02/09/2024 15:36	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	17	1000	Unknown		02/09/2024 15:46	Finished	CCB R240103B
49	N063001-018A,SAMF	18	1000	Unknown		02/09/2024 15:55	Finished	SAMP,10 mL
50	N063001-018AMS,MS	19	1000	Unknown		02/09/2024 16:05	Finished	MS (1ppb), IWST-231228B,10r
51	N063001-002A,SAMF	20	1000	Unknown		02/09/2024 16:14	Finished	SAMP,10 mL
52	N063001-002AMS,MS	21	1000	Unknown		02/09/2024 16:23	Finished	MS (1ppb), IWST-231228B,10r
53	N063001-013A,SAMF	22	1000	Unknown		02/09/2024 16:33	Finished	SAMP,10 mL
54	N063001-013AMS,MS	23	1000	Unknown		02/09/2024 16:42	Finished	MS (1ppb), IWST-231228B,10r
55	N063001-019A,SAMF	24	1000	Unknown		02/09/2024 16:52	Finished	SAMP,10 mL
56	N063001-019AMS,MS	25	1000	Unknown		02/09/2024 17:01	Finished	MS (1ppb), IWST-231228B,10r
57	N063001-010A,SAMF	26	1000	Unknown		02/09/2024 17:11	Finished	SAMP,2>10 mL
58	N063001-010AMS,MS	27	1000	Unknown		02/09/2024 17:20	Finished	MS (5ppb), IWST-231228B,2>
59	CCV-5,CCV,1,	28	1000	Unknown		02/09/2024 17:30	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	29	1000	Unknown		02/09/2024 17:39	Finished	CCB R240103B

61	N063001-009AMS,M	30	1000	Unknown	02/09/2024 17:49	Finished	MS (5ppb), IWST-231228B,2>
62	N063001-008A,SAMF	31	1000	Unknown	02/09/2024 17:58	Finished	SAMP,10 mL
63	N063001-008AMS,M	32	1000	Unknown	02/09/2024 18:08	Finished	MS (1ppb), IWST-231228B,10r
64	N063001-008ADUP,I	33	1000	Unknown	02/09/2024 18:17	Finished	DUP,10 mL
65	N063001-008AMSD,I	34	1000	Unknown	02/09/2024 18:26	Finished	MSD (1ppb), IWST-231228B,1
66	N063001-004AMS,M	35	1000	Unknown	02/09/2024 18:36	Finished	SAMP,2>10 mL
67	N063001-014AMS,M	36	1000	Unknown	02/09/2024 18:45	Finished	MS (1ppb), IWST-231228B,10r
68	CCV-6,CCV1,1,	37	1000	Unknown	02/09/2024 18:55	Finished	CCV @10ppb, IWST-231228A
69	CCB-6,CCB,1,	38	1000	Unknown	02/09/2024 19:04	Finished	CCB R240103B
70	BLANK	39	1000	Unknown	02/09/2024 19:14	Finished	BLANK
71	SHUTDOWN	40	1000	Unknown	02/09/2024 19:23	Finished	
72	Eluent: R240205A	41	1000	Unknown	n.a.	Finished	
73	PCR: R240205B	42	1000	Unknown	n.a.	Finished	

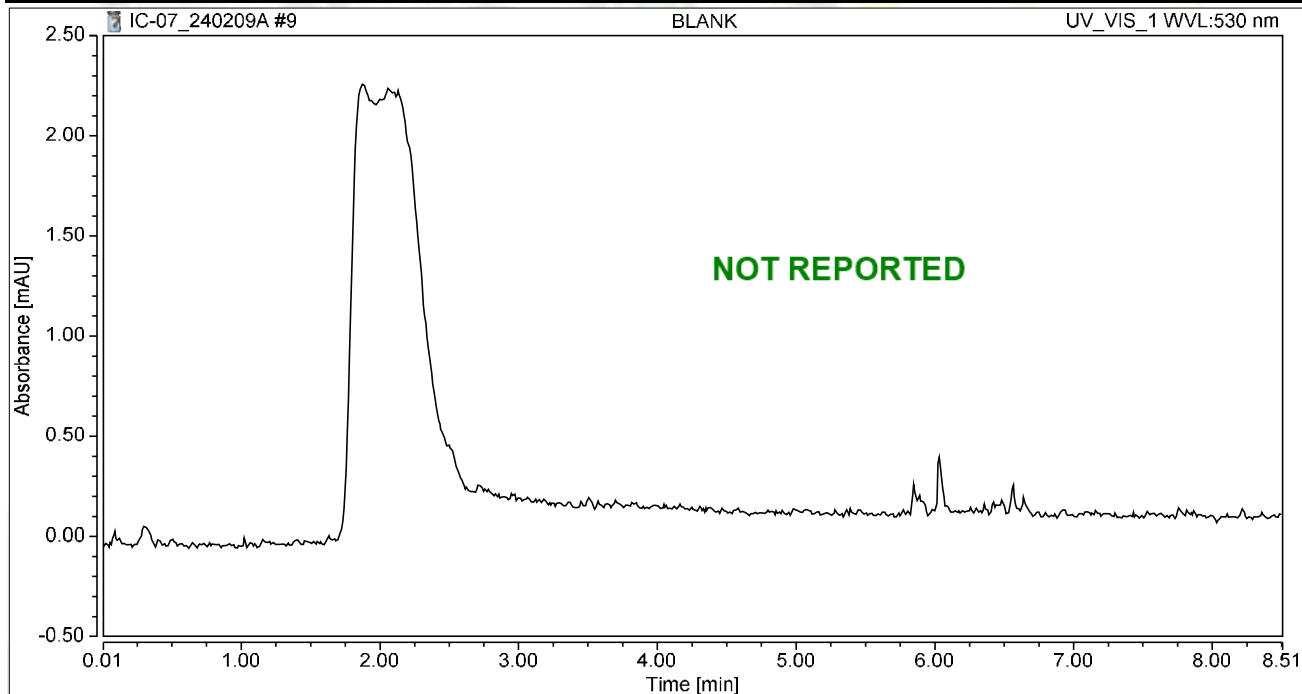


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 08:58	Sample Weight:	1.0000

Chromatogram



Integration Results

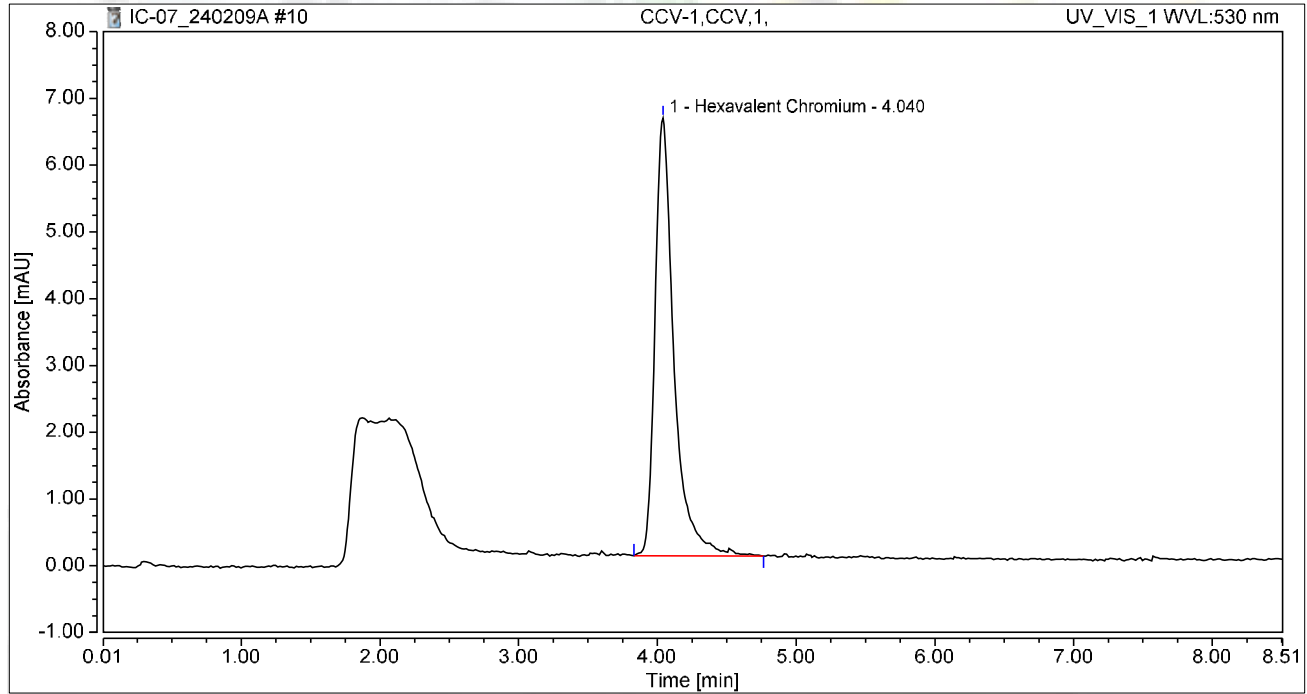
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 09:14	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.043	6.561	100.00	100.00	4.8483
Total:			1.043	6.561	100.00	100.00	

Reviewed by:

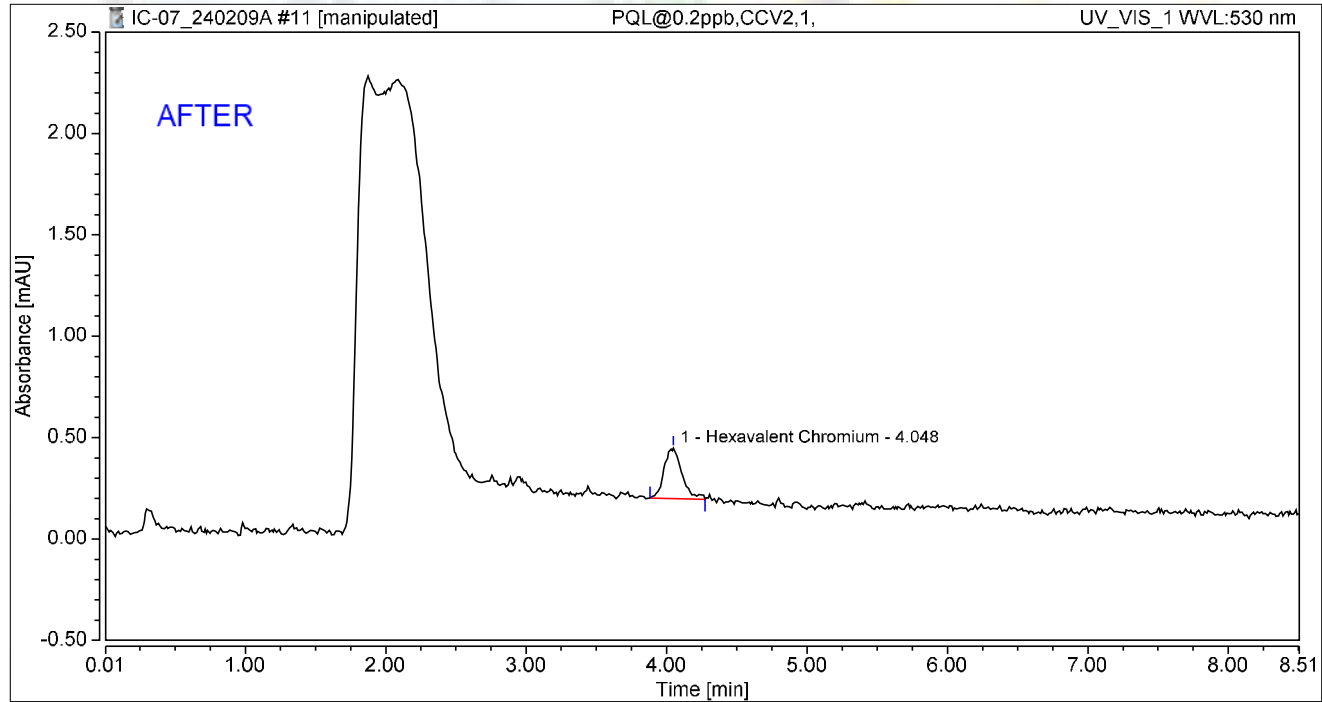
JRB

2/20/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Feb/24 09:23	Sample Weight: 1.0000

Chromatogram



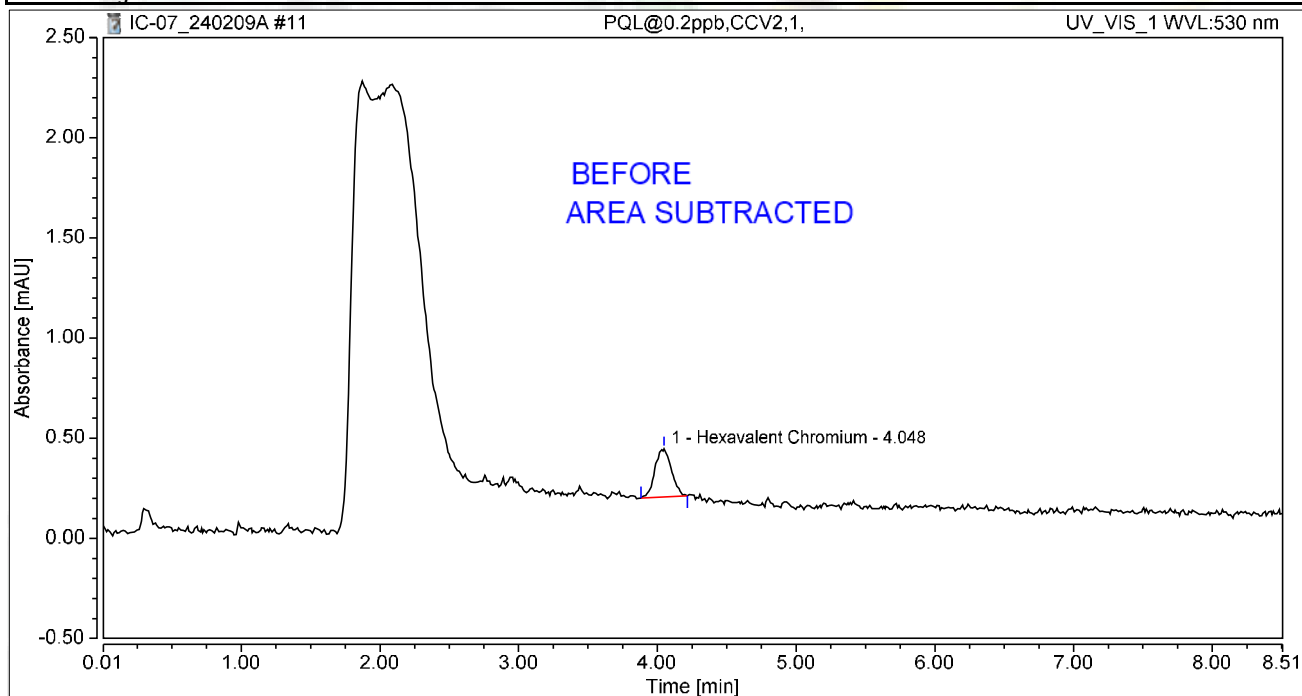
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.037	0.250	100.00	100.00	0.1731
Total:			0.037	0.250	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 09:23	Sample Weight:	1.0000

Chromatogram



Integration Results

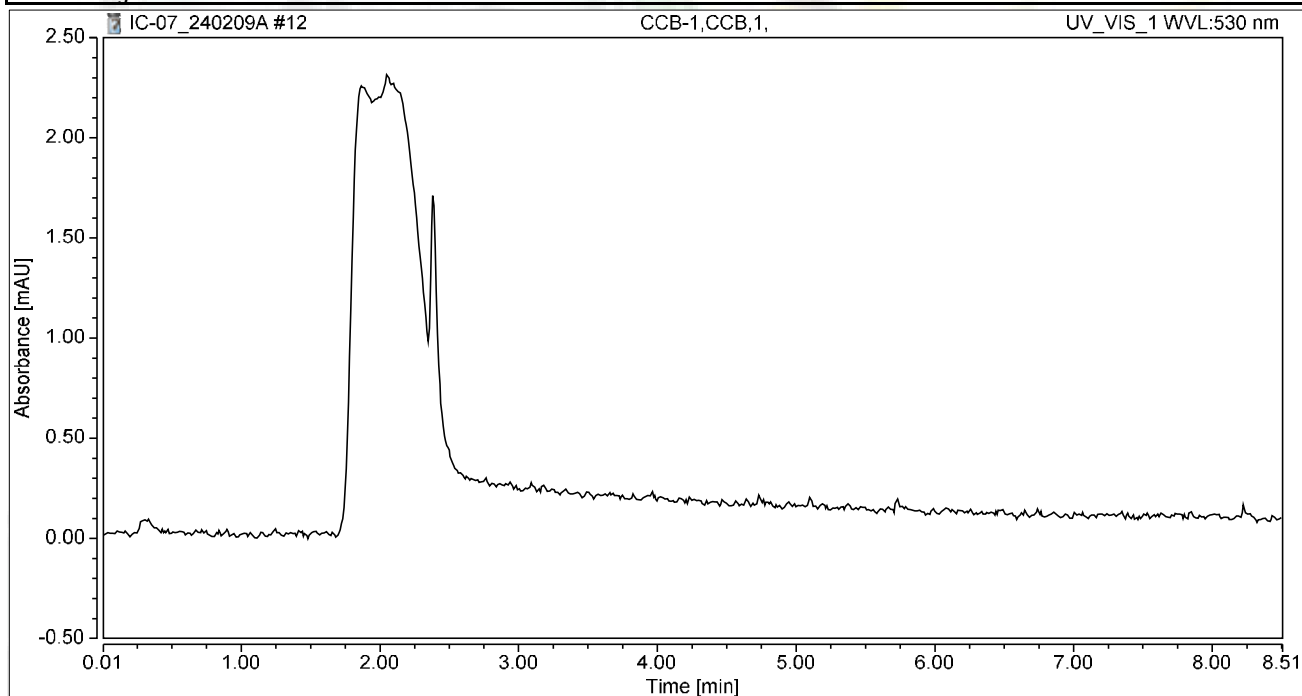
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.033	0.242	100.00	100.00	0.1549
Total:			0.033	0.242	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 09:33	Sample Weight:	1.0000

Chromatogram



Integration Results

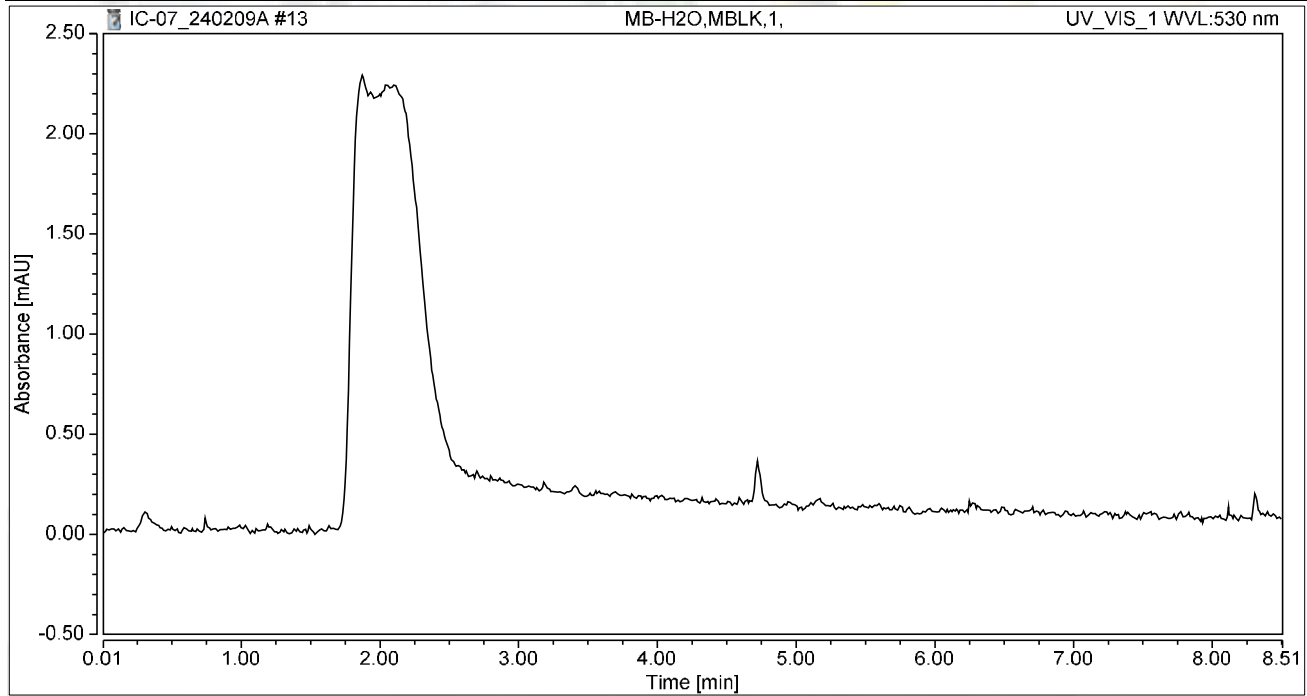
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 09:42	Sample Weight:	1.0000

Chromatogram



Integration Results

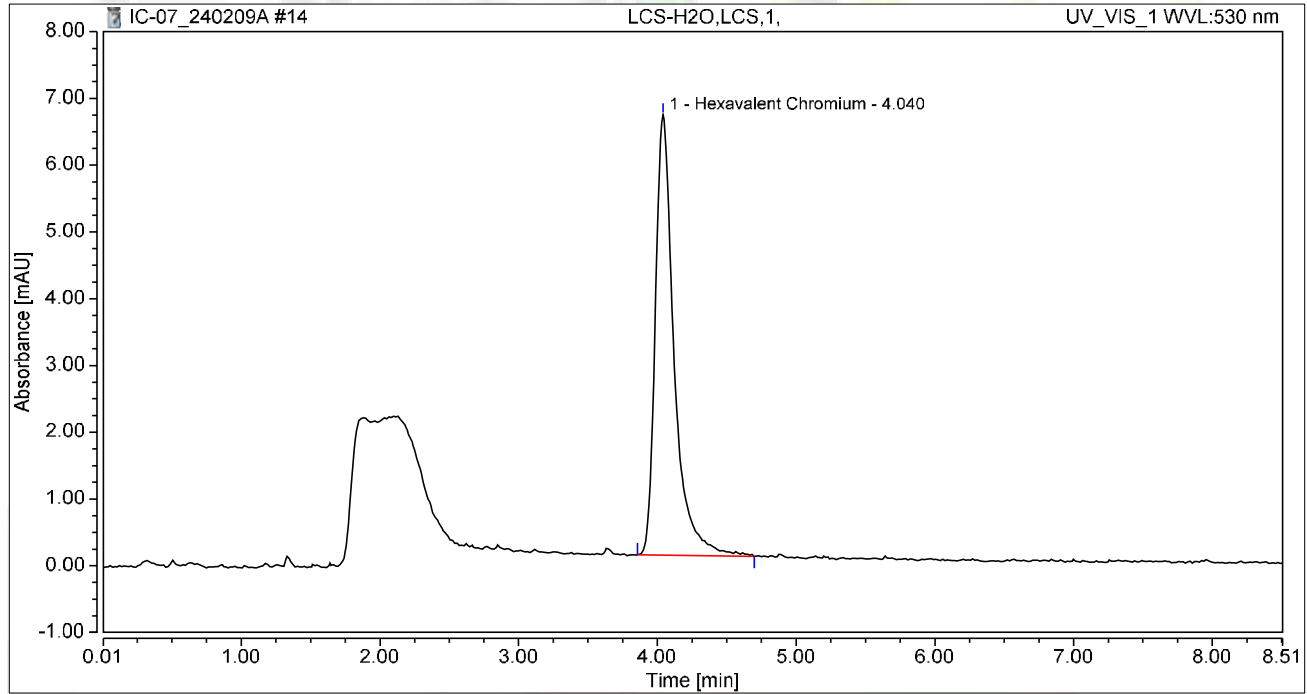
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 09:51	Sample Weight:	1.0000

Chromatogram



Integration Results

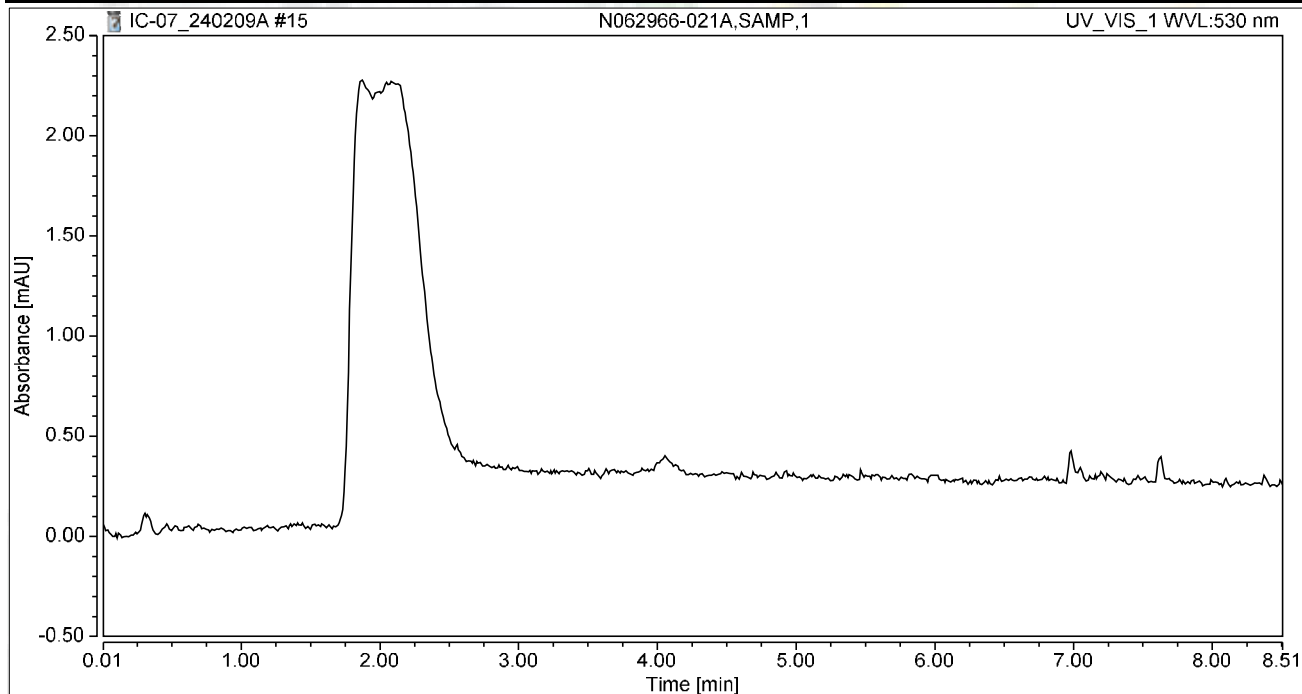
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.034	6.595	100.00	100.00	4.8090
Total:			1.034	6.595	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 10:04	Sample Weight:	1.0000

Chromatogram



Integration Results

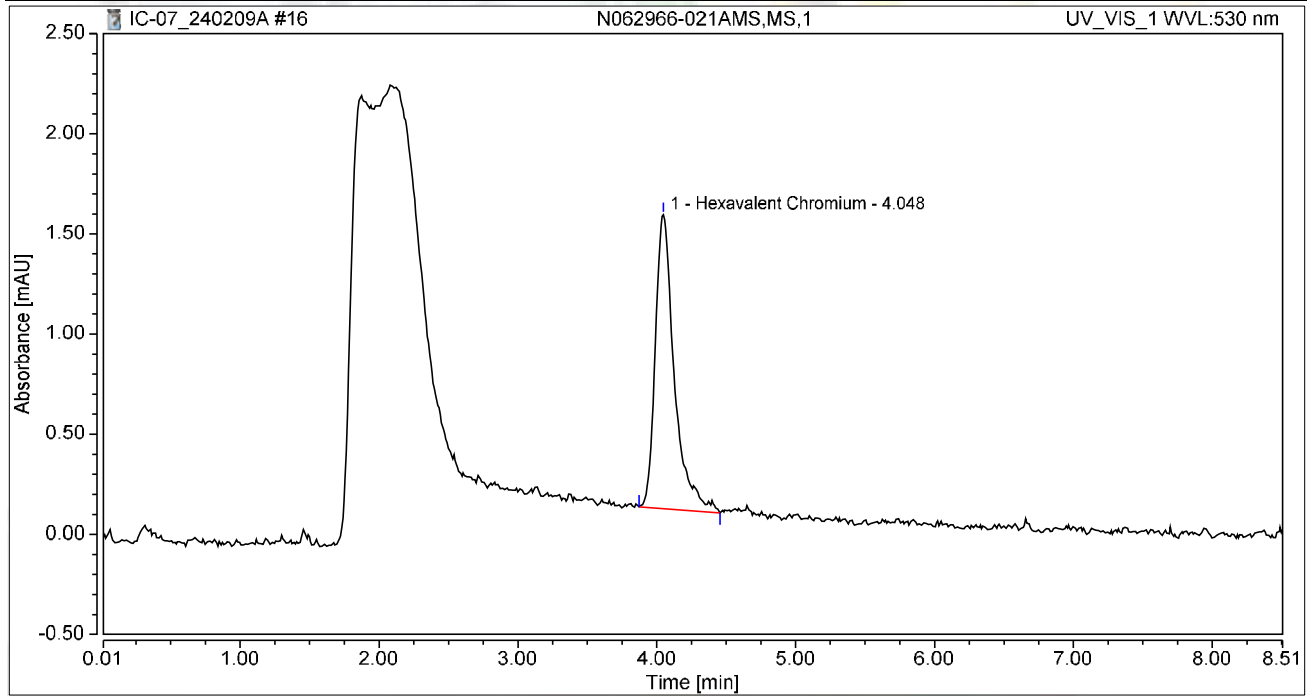
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-021AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 10:14	Sample Weight:	1.0000

Chromatogram



Integration Results

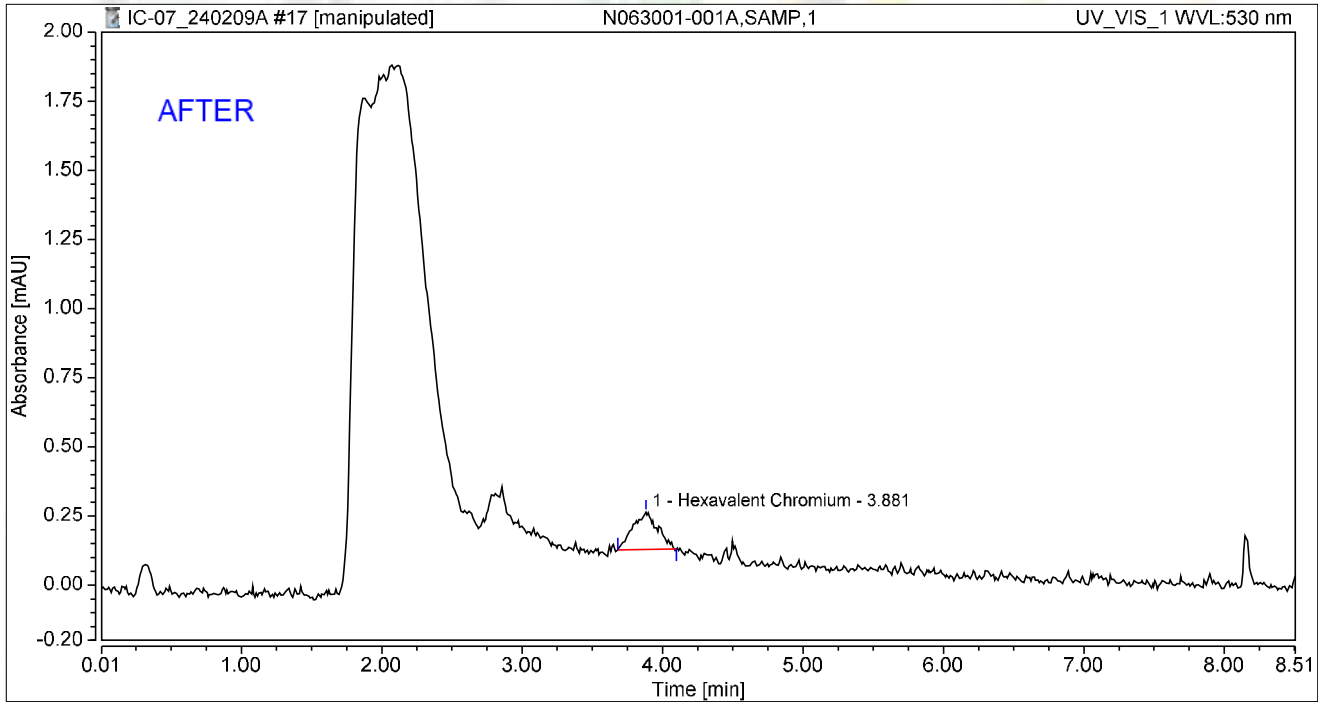
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.233	1.469	100.00	100.00	1.0842
Total:			0.233	1.469	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.027	0.136	100.00	100.00	0.1277
Total:			0.027	0.136	100.00	100.00	

Reviewed by:

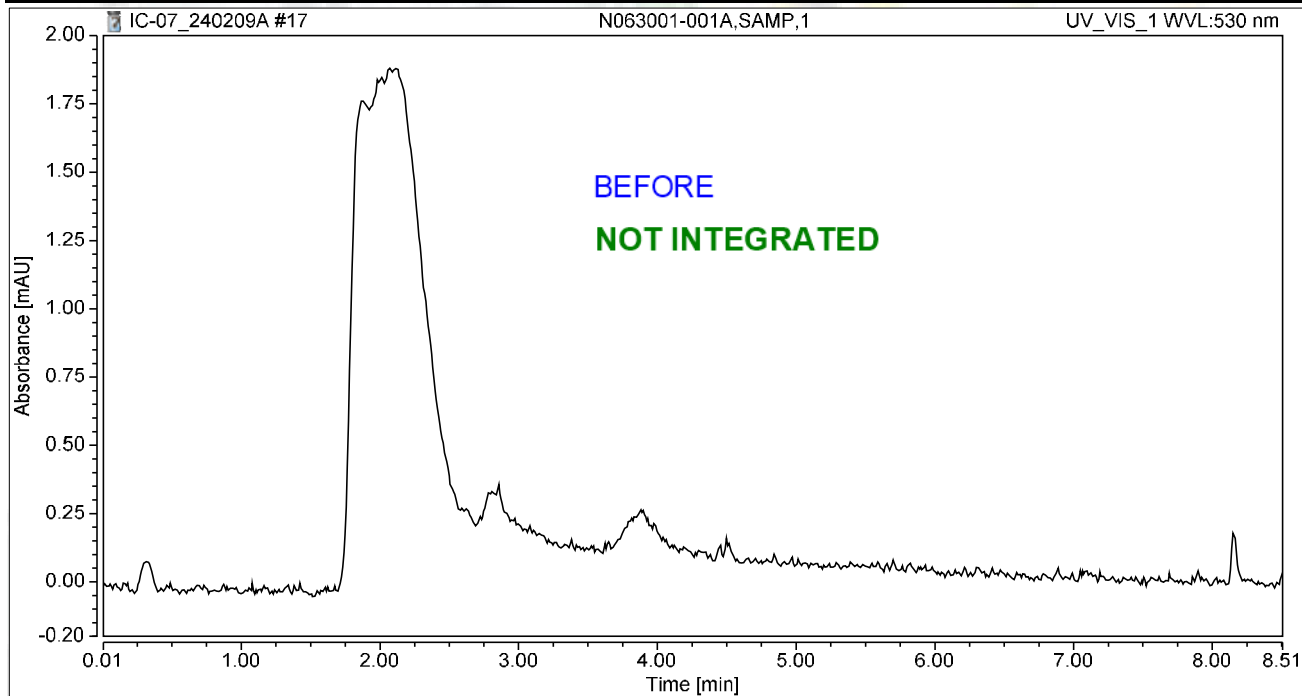
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063001-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

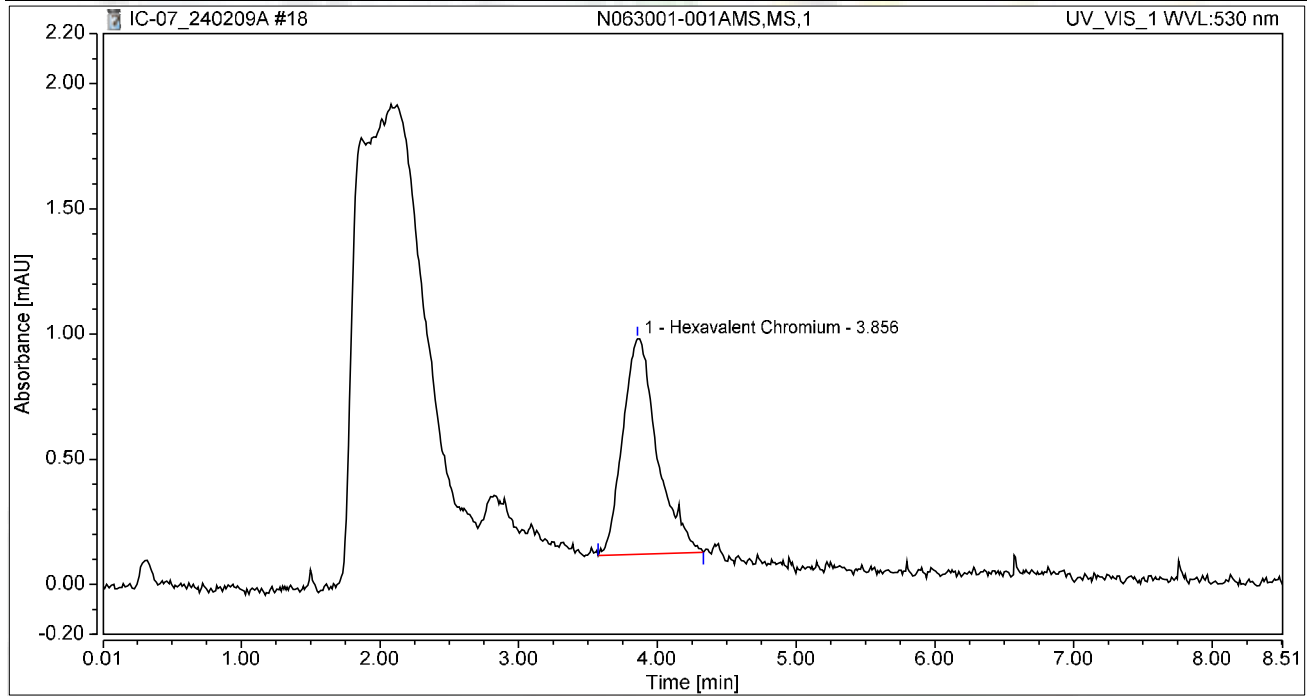
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 10:58	Sample Weight:	1.0000

Chromatogram



Integration Results

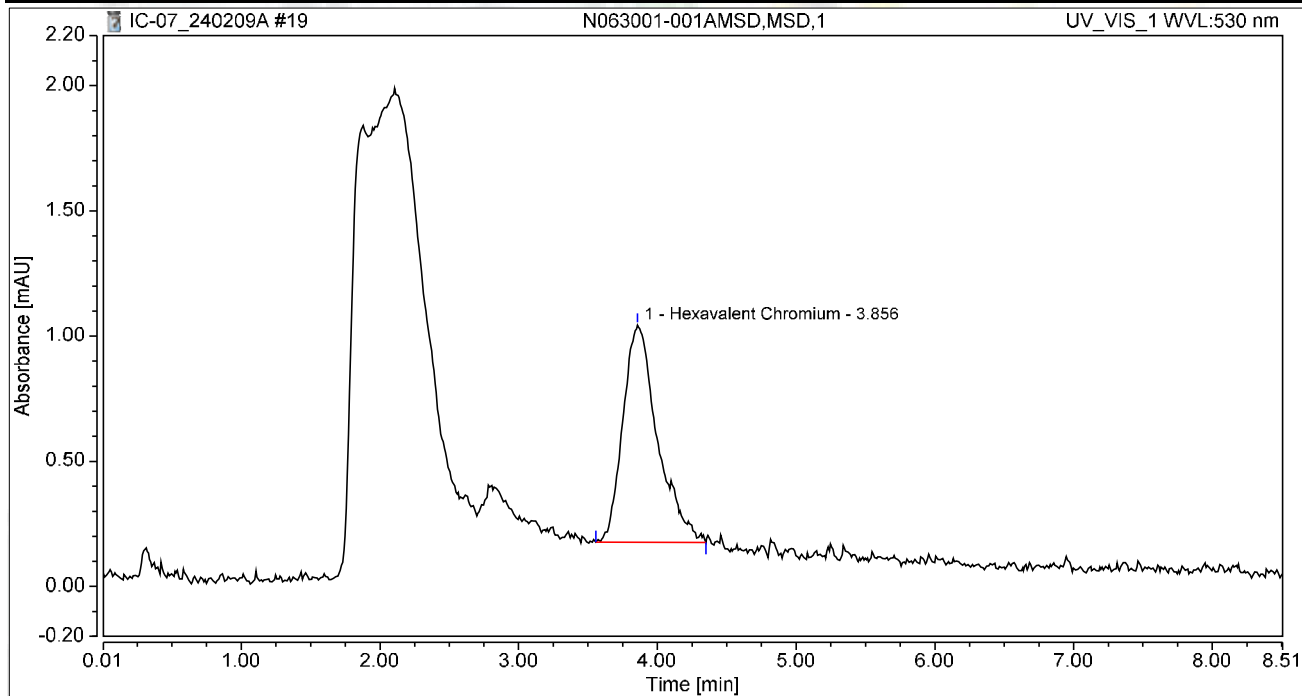
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.248	0.861	100.00	100.00	1.1526
Total:			0.248	0.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-001AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:07	Sample Weight:	1.0000

Chromatogram



Integration Results

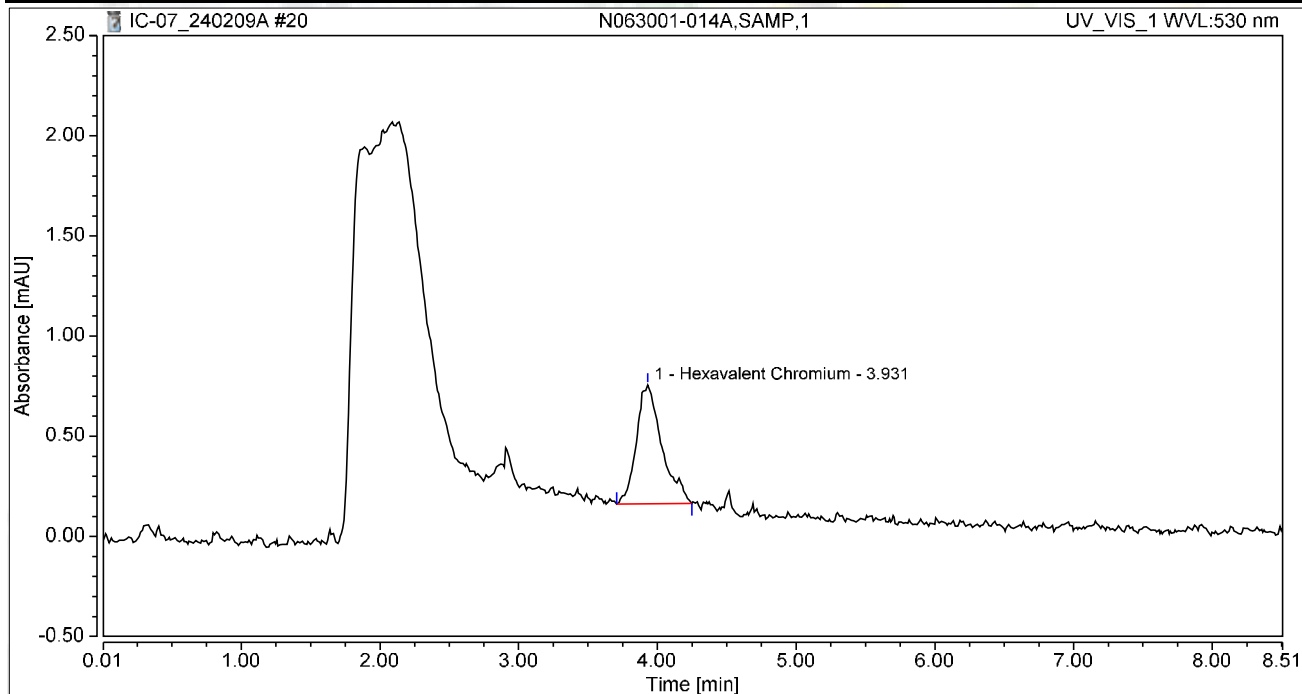
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.251	0.867	100.00	100.00	1.1660
Total:			0.251	0.867	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

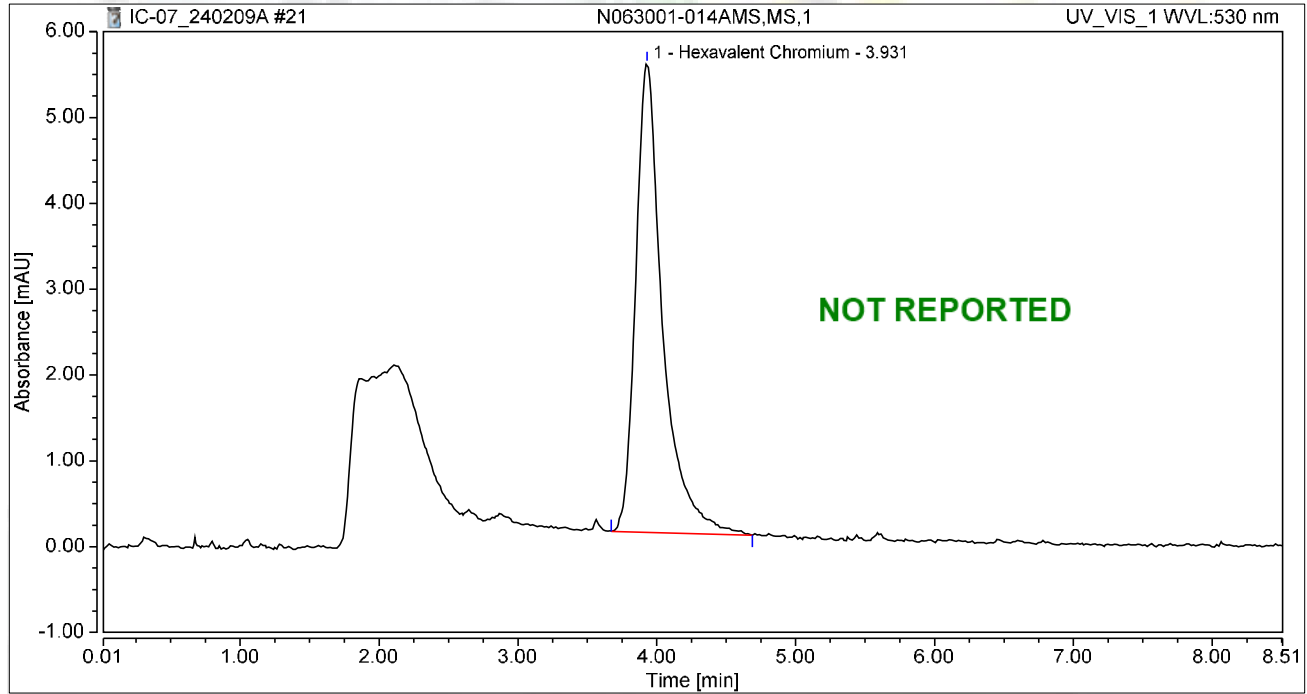
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.931	0.127	0.594	100.00	100.00	0.5899
Total:			0.127	0.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-014AMS,MS,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:26	Sample Weight:	1.0000

Chromatogram



Integration Results

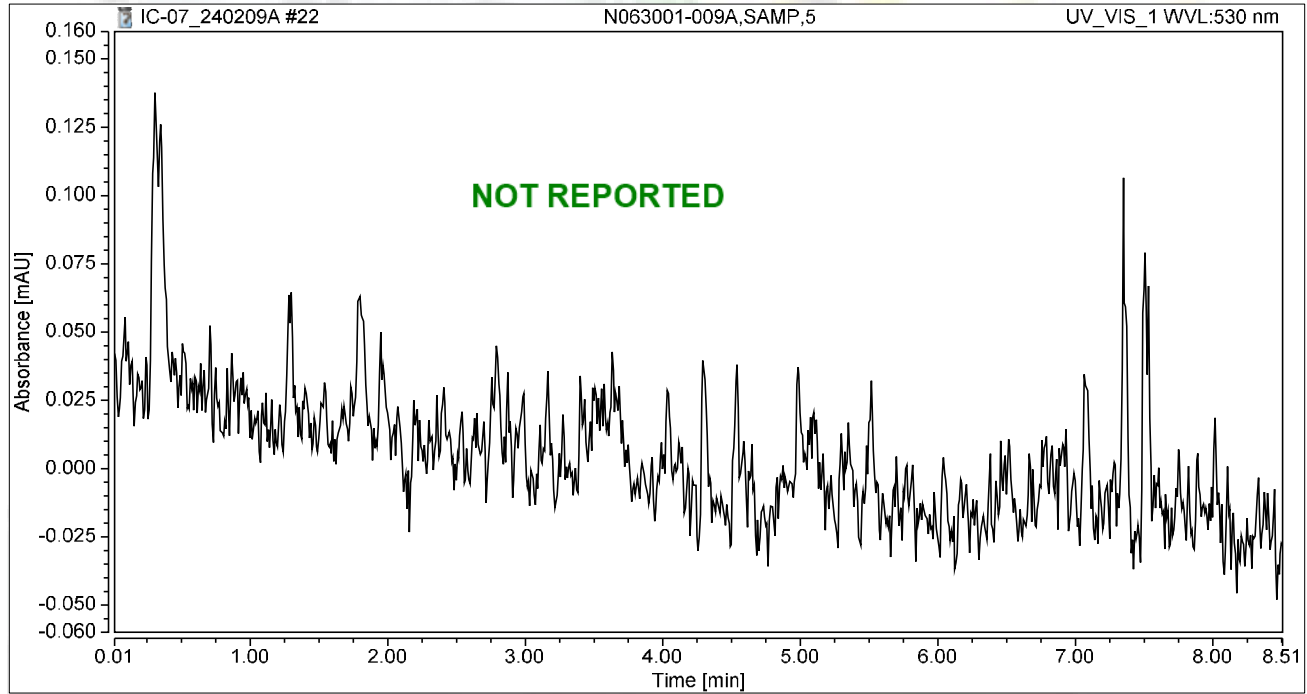
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.931	1.233	5.464	100.00	100.00	5.7327
Total:			1.233	5.464	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:36	Sample Weight:	1.0000

Chromatogram



Integration Results

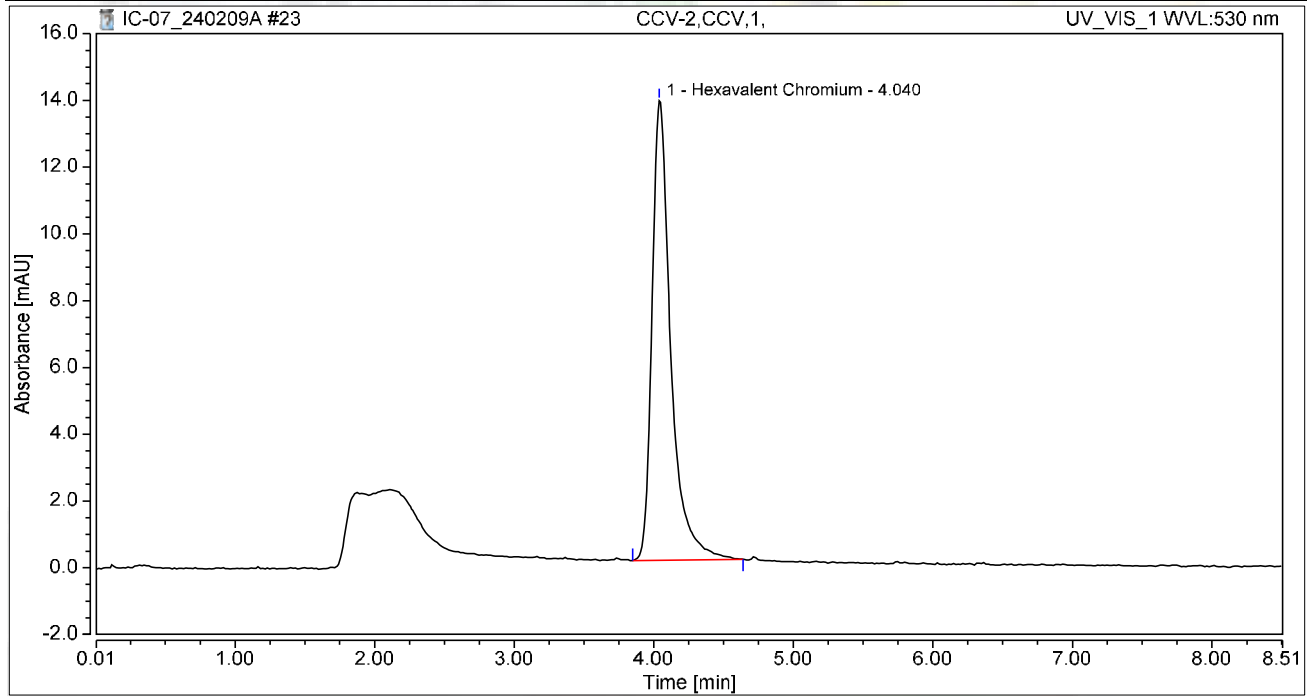
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:44	Sample Weight:	1.0000

Chromatogram



Integration Results

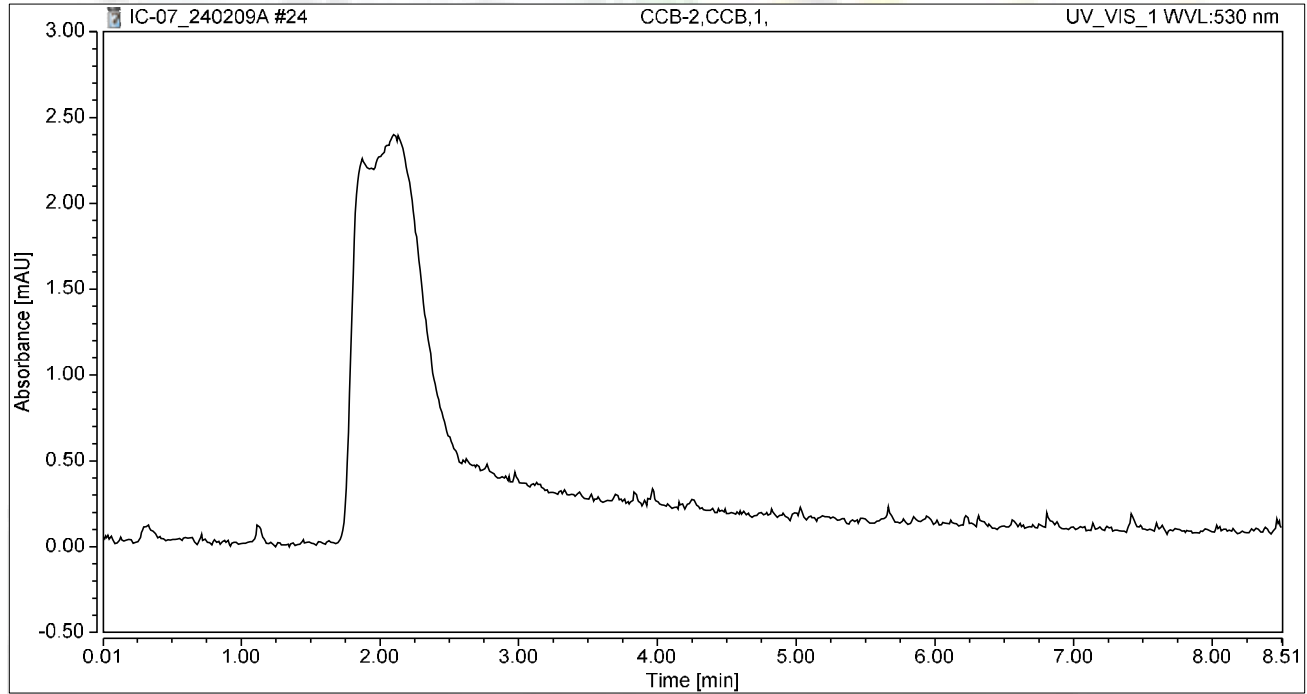
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.149	13.763	100.00	100.00	9.9902
Total:			2.149	13.763	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 11:54	Sample Weight:	1.0000

Chromatogram



Integration Results

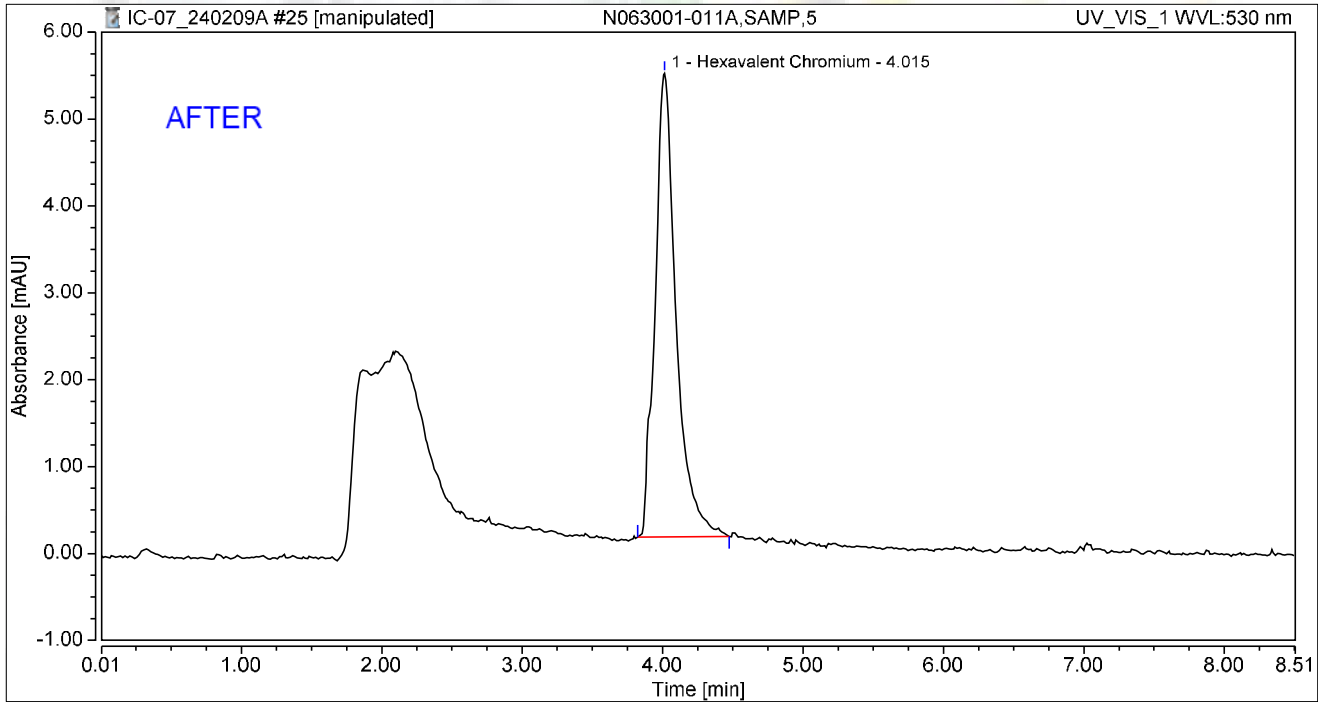
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:03	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	0.925	5.334	100.00	100.00	4.2994
Total:			0.925	5.334	100.00	100.00	

Reviewed by:

jrb

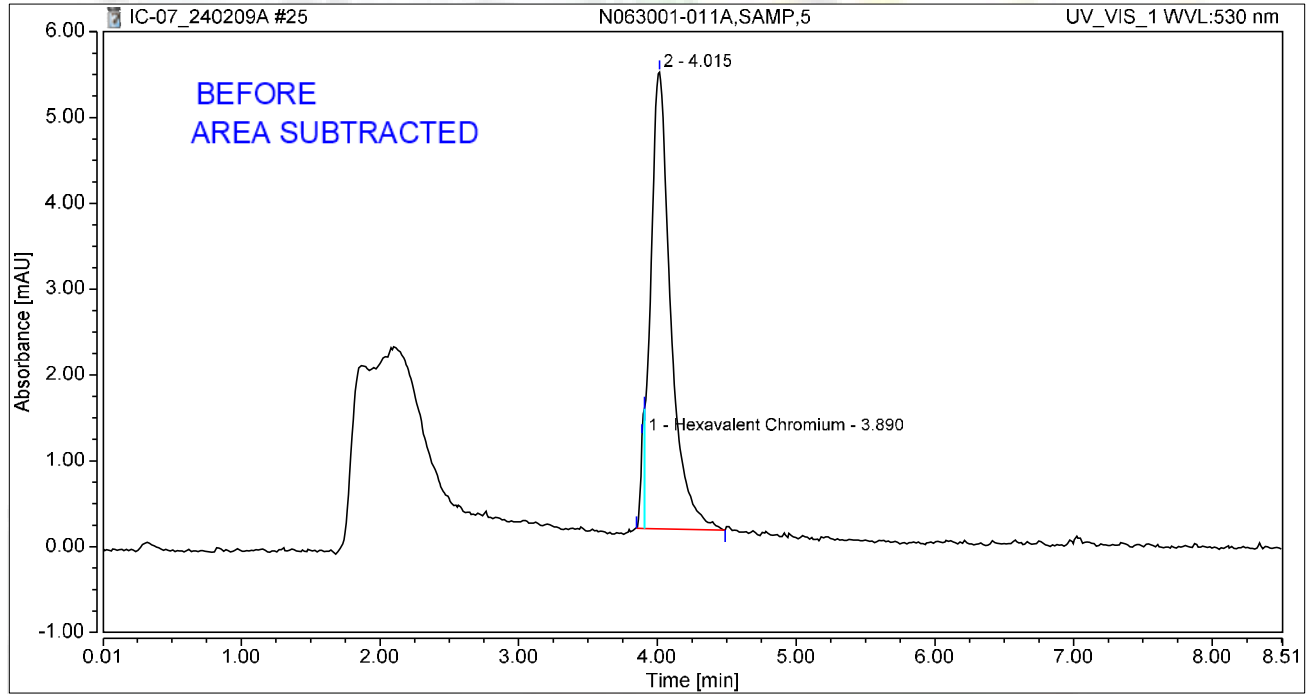
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063001-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:03	Sample Weight:	1.0000

Chromatogram



Integration Results

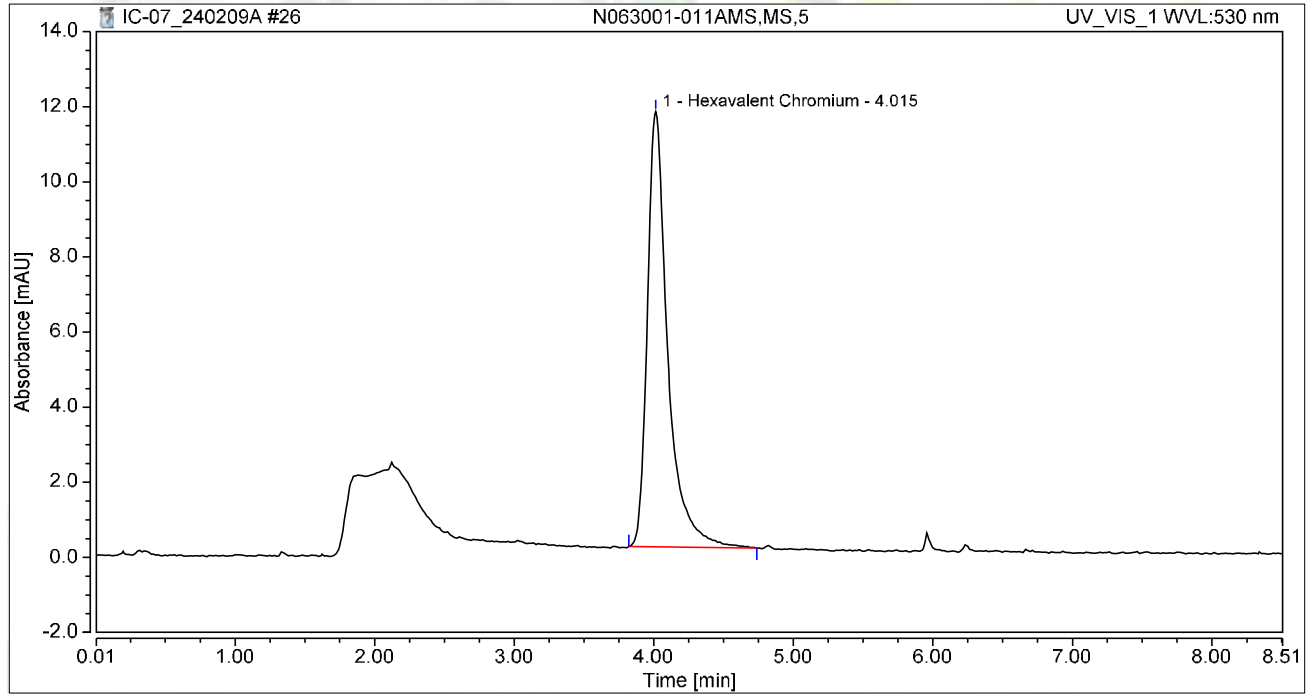
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.035	1.076	3.79	16.82	0.1619
2		4.015	0.883	5.317	96.21	83.18	n.a.
Total:			0.918	6.393	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-011AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:13	Sample Weight:	1.0000

Chromatogram



Integration Results

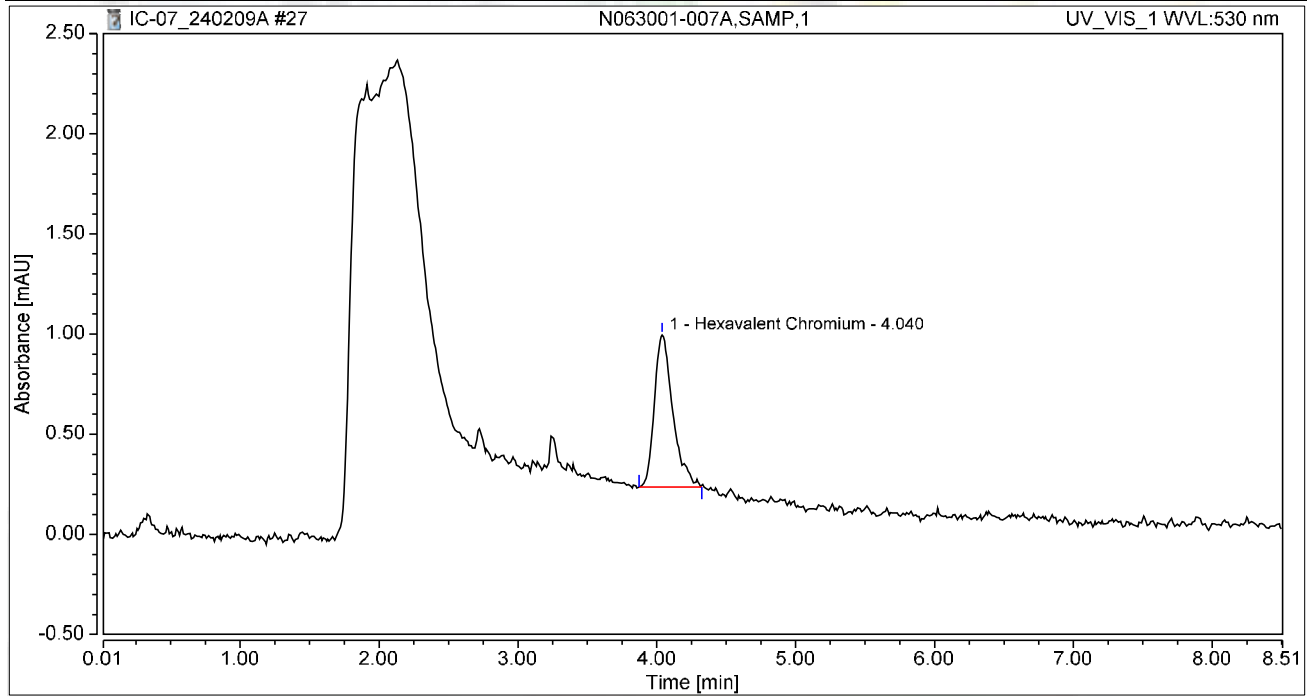
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.015	1.963	11.587	100.00	100.00	9.1255
Total:			1.963	11.587	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:22	Sample Weight:	1.0000

Chromatogram



Integration Results

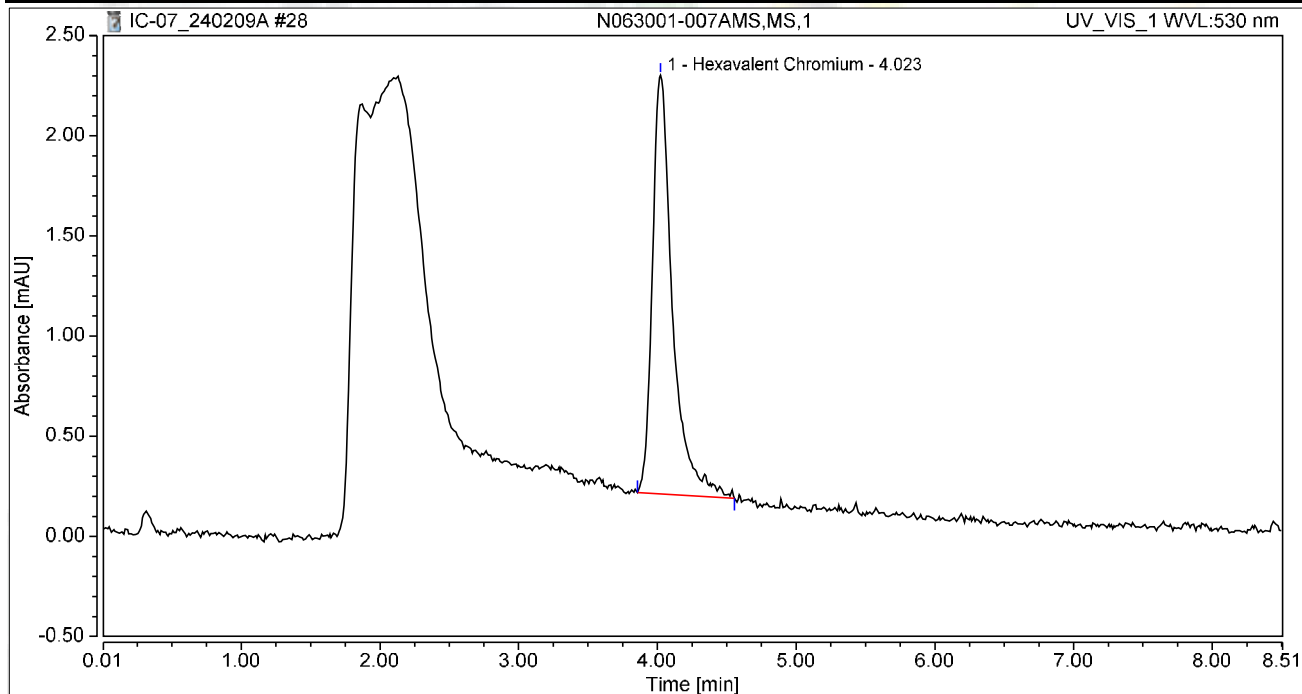
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.117	0.759	100.00	100.00	0.5440
Total:			0.117	0.759	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:32	Sample Weight:	1.0000

Chromatogram



Integration Results

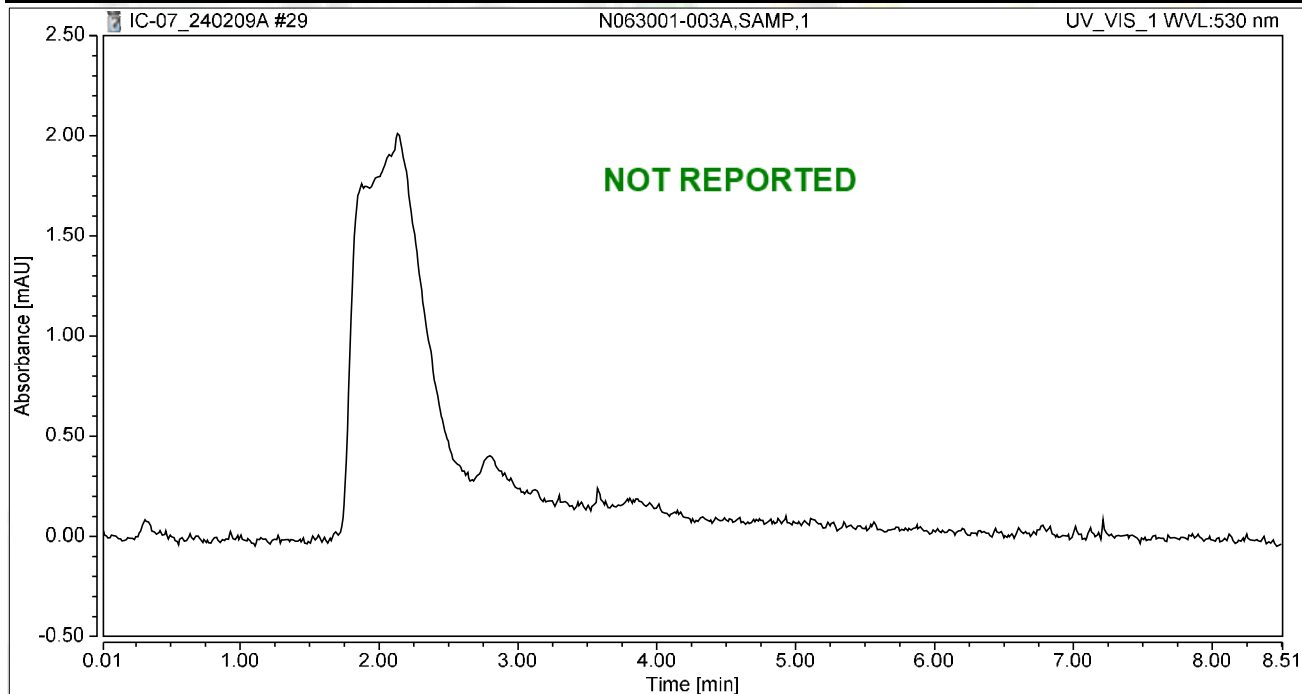
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.023	0.352	2.090	100.00	100.00	1.6347
Total:			0.352	2.090	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:41	Sample Weight:	1.0000

Chromatogram



Integration Results

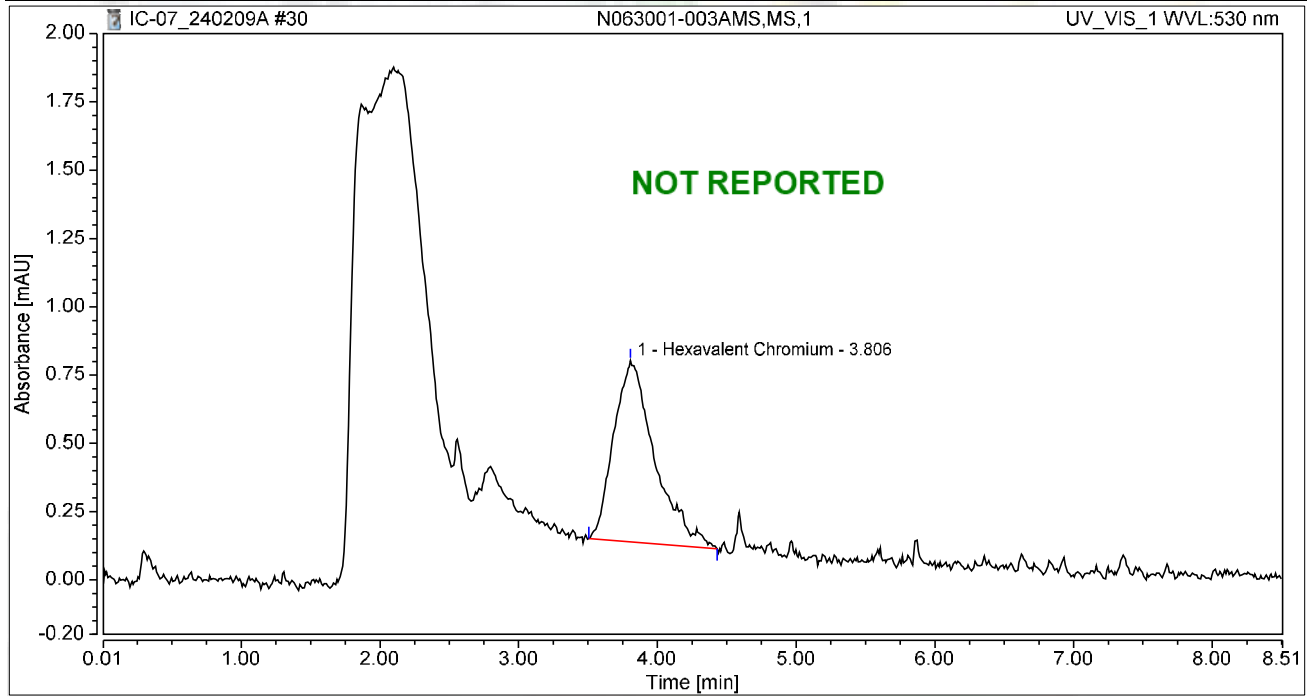
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 12:51	Sample Weight:	1.0000

Chromatogram



Integration Results

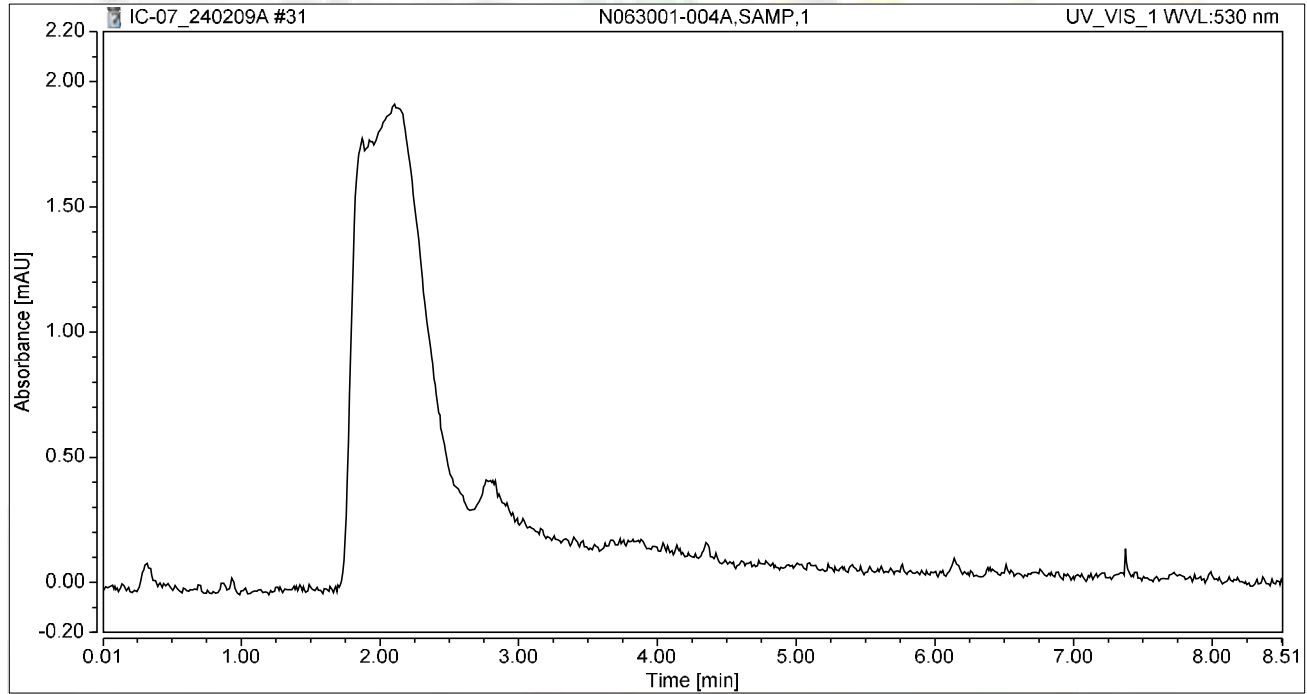
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.806	0.228	0.664	100.00	100.00	1.0605
Total:			0.228	0.664	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:00	Sample Weight:	1.0000

Chromatogram



Integration Results

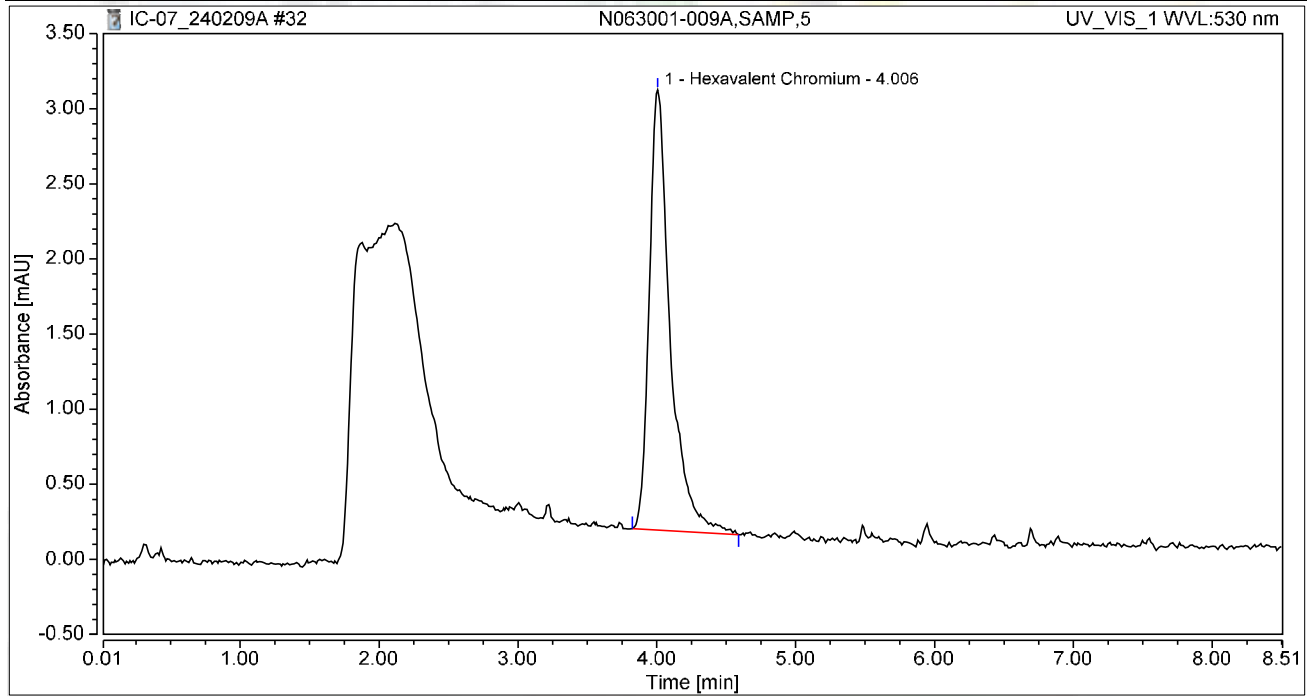
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

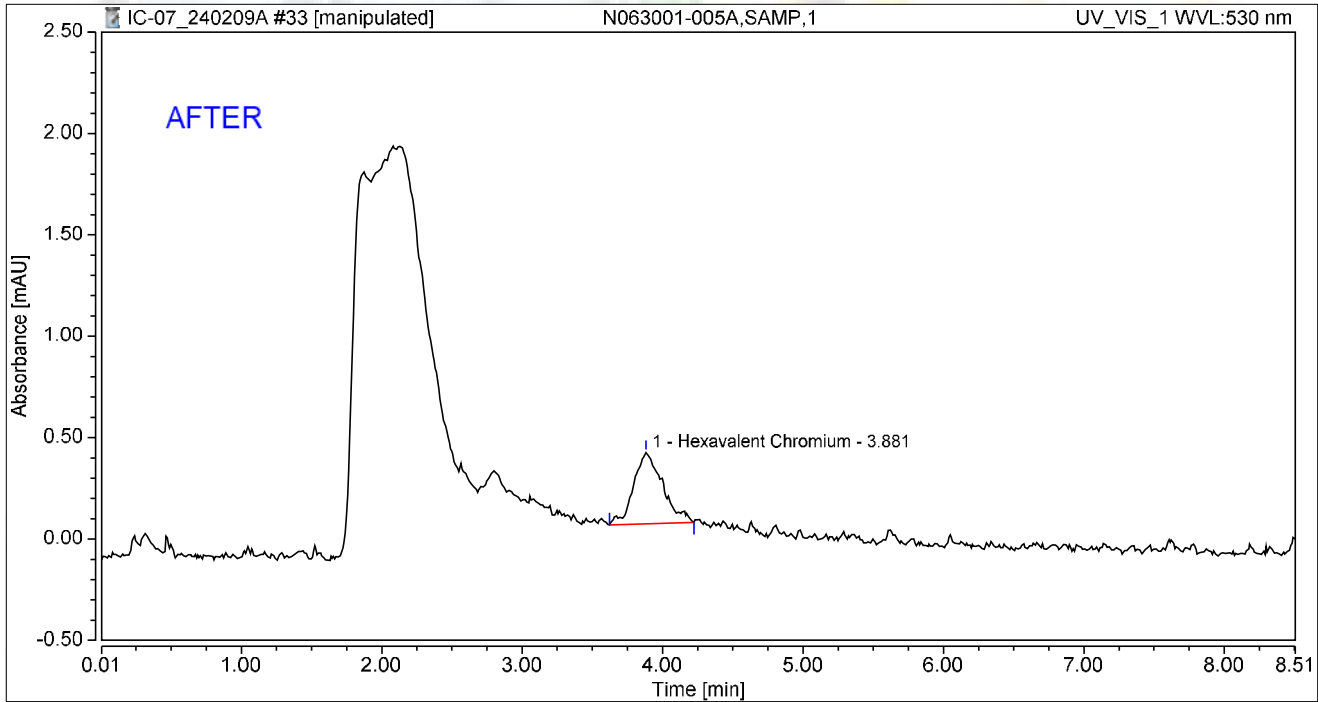
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.512	2.930	100.00	100.00	2.3820
Total:			0.512	2.930	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.085	0.352	100.00	100.00	0.3932
Total:			0.085	0.352	100.00	100.00	

Reviewed by:

jrb

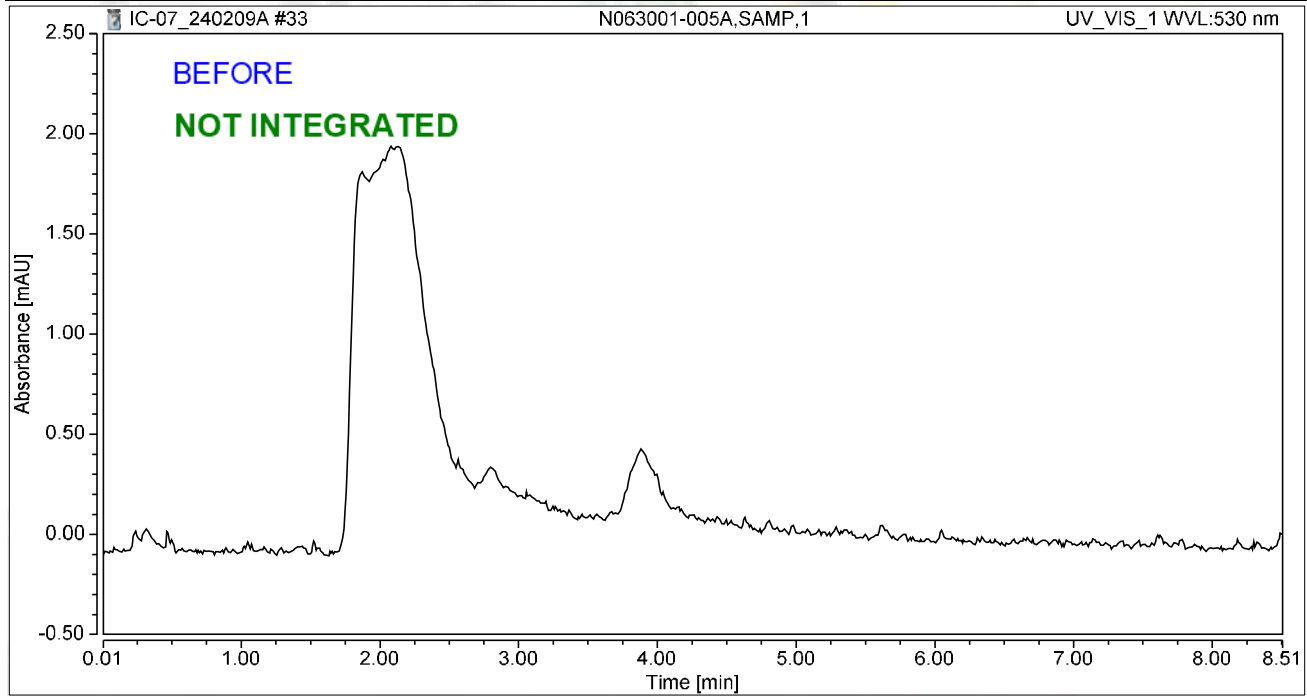
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063001-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:24	Sample Weight:	1.0000

Chromatogram



Integration Results

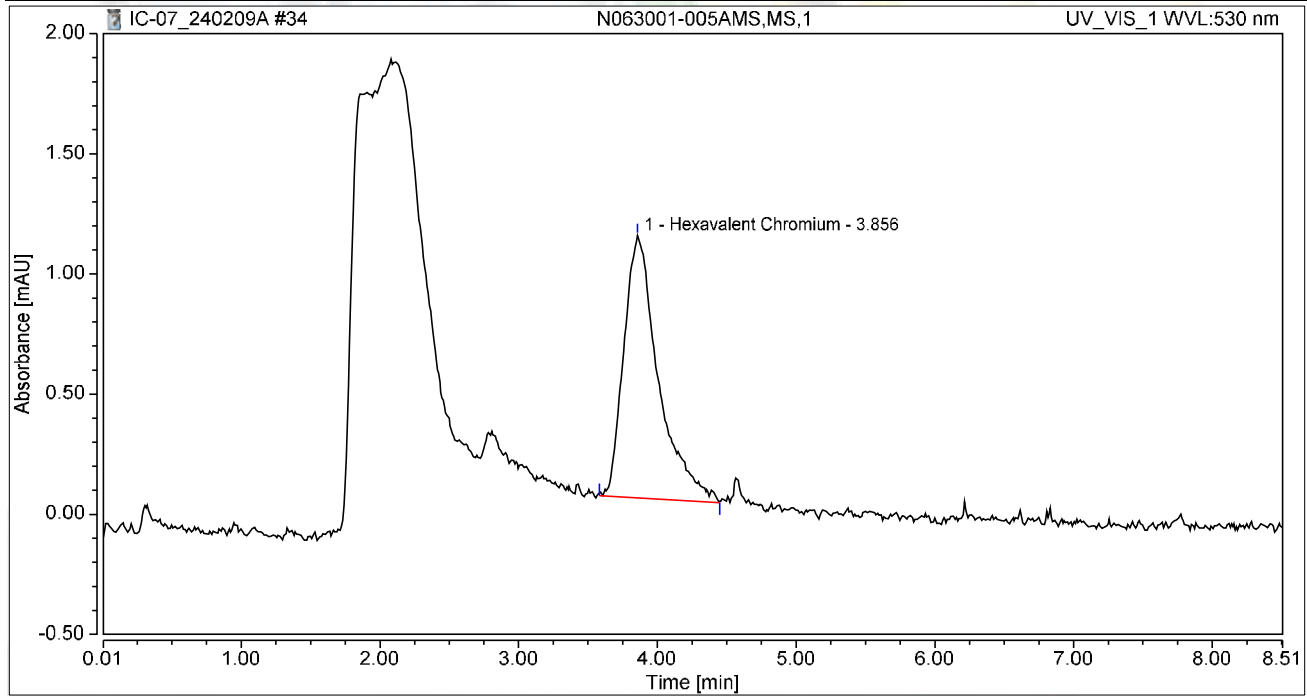
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:33	Sample Weight:	1.0000

Chromatogram



Integration Results

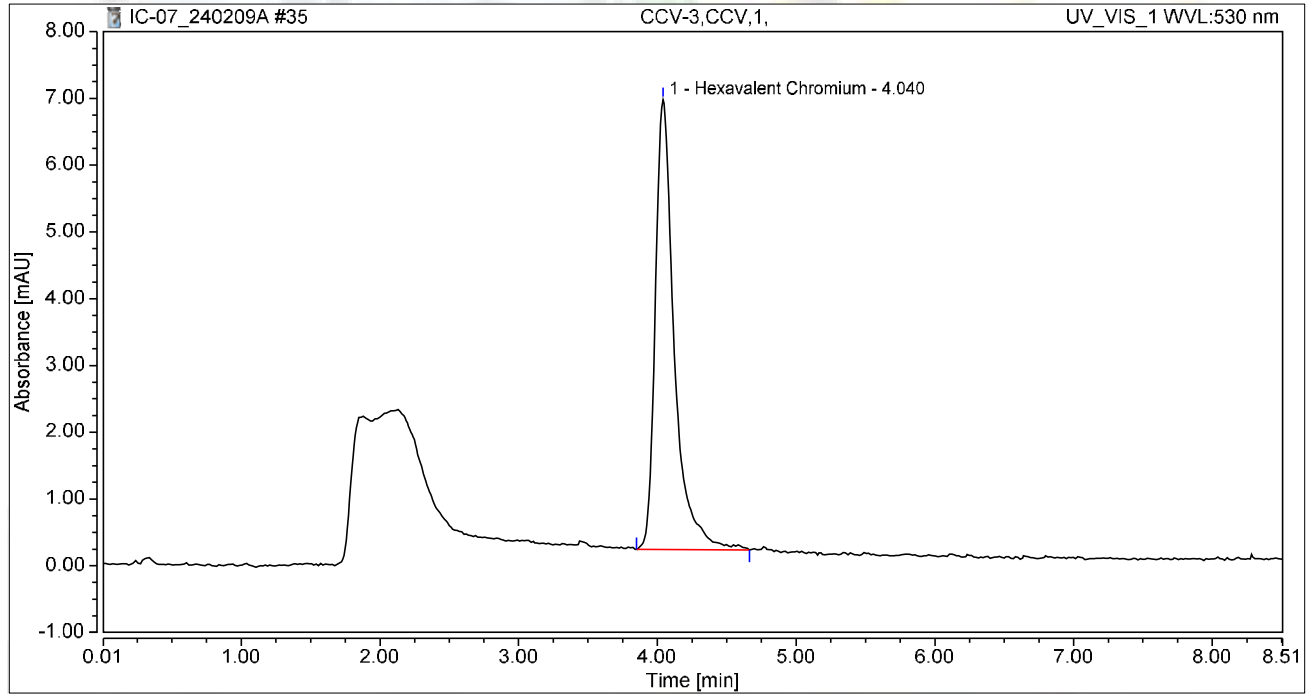
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.315	1.091	100.00	100.00	1.4653
Total:			0.315	1.091	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:43	Sample Weight:	1.0000

Chromatogram



Integration Results

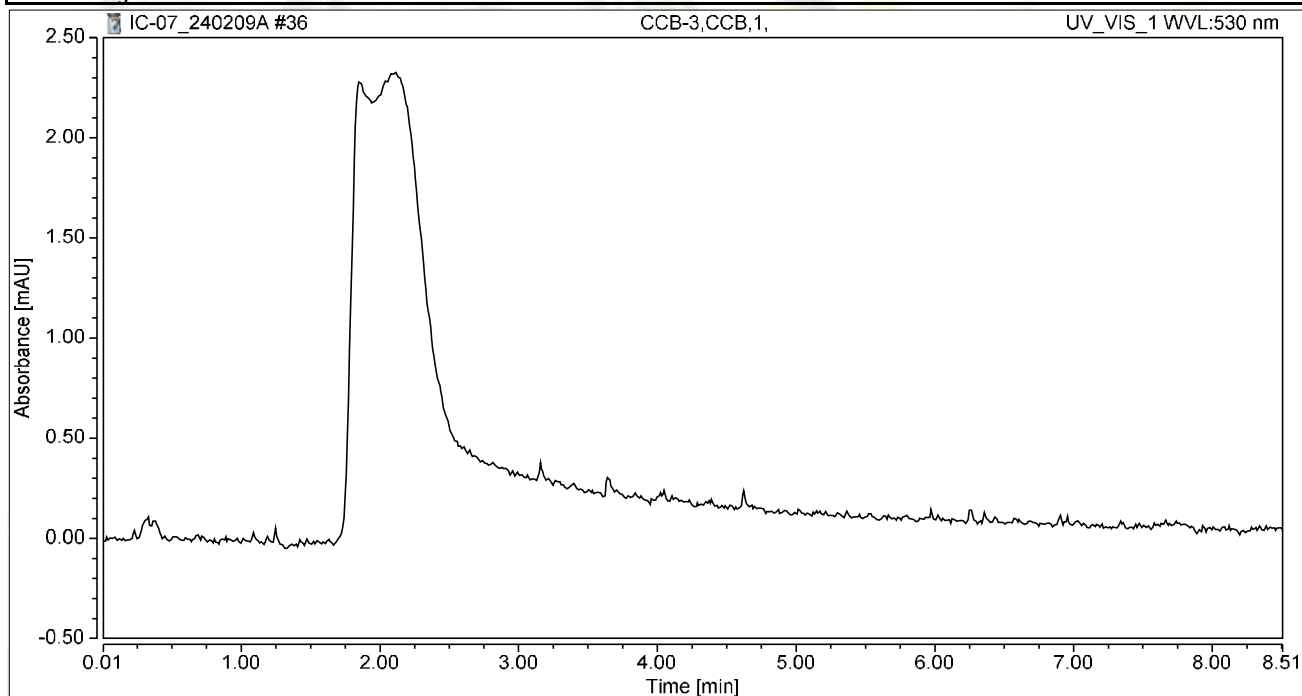
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.071	6.740	100.00	100.00	4.9807
Total:			1.071	6.740	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 13:52	Sample Weight:	1.0000

Chromatogram



Integration Results

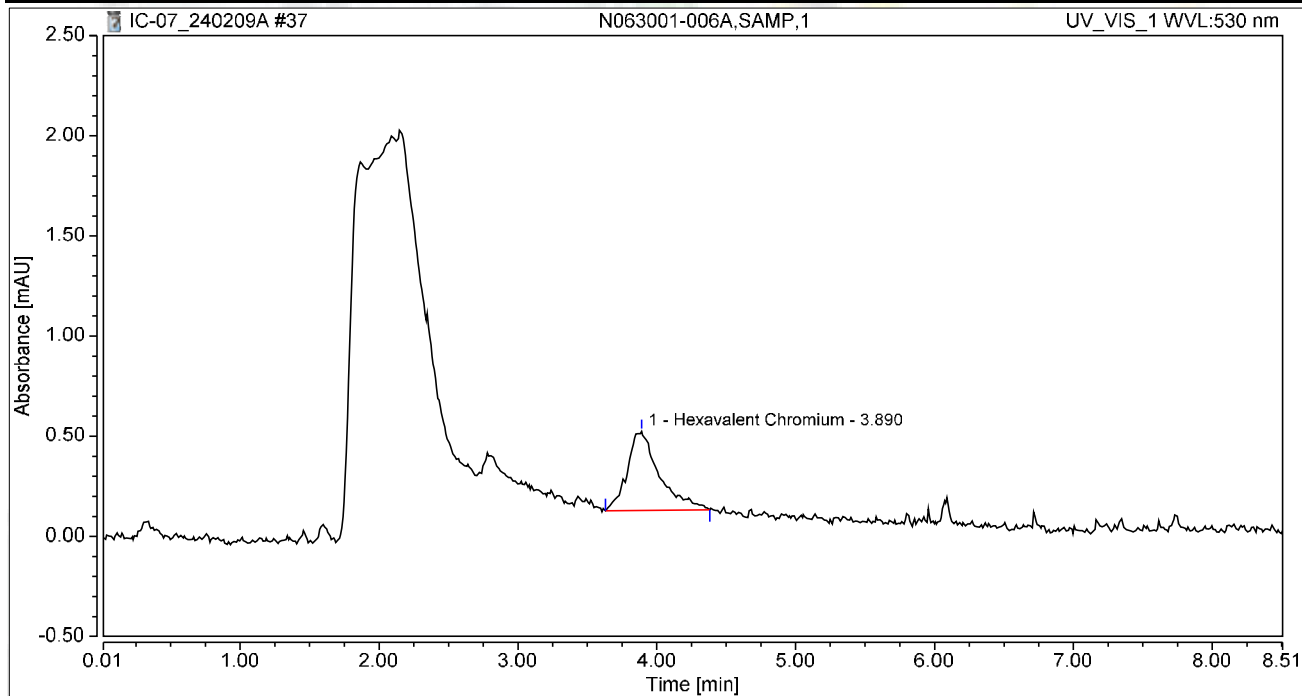
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:02	Sample Weight:	1.0000

Chromatogram



Integration Results

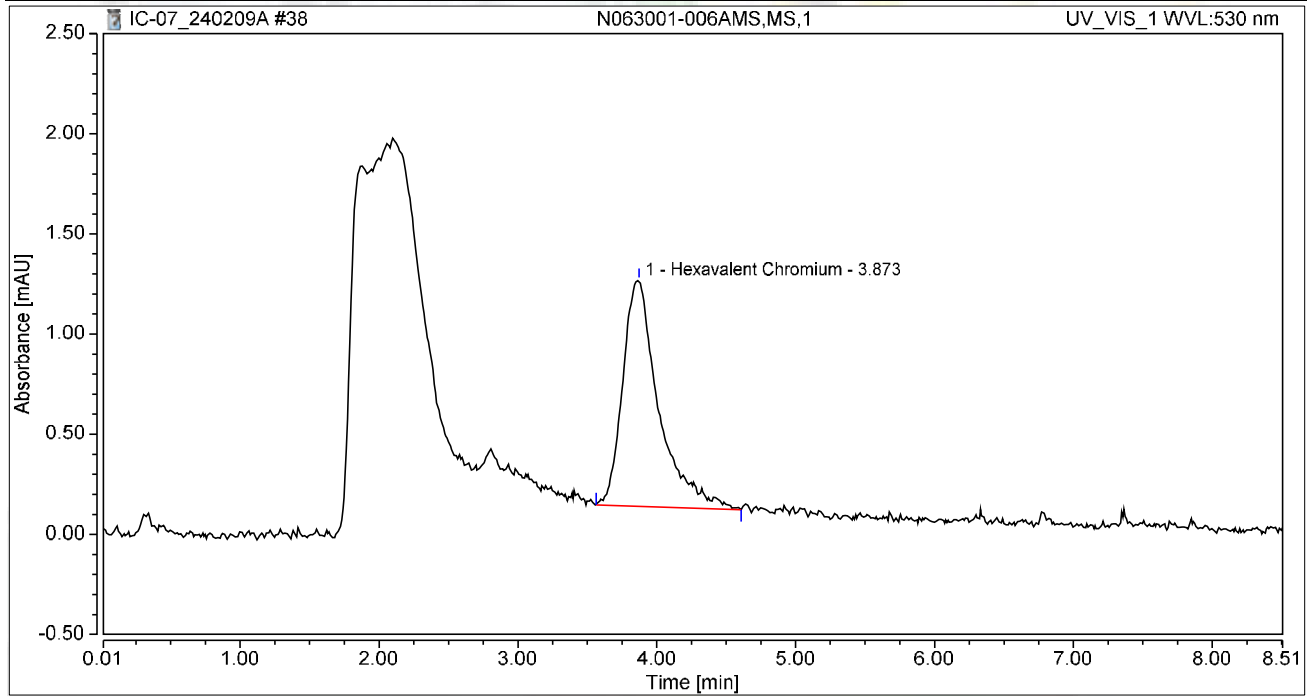
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.106	0.395	100.00	100.00	0.4921
Total:			0.106	0.395	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:11	Sample Weight:	1.0000

Chromatogram



Integration Results

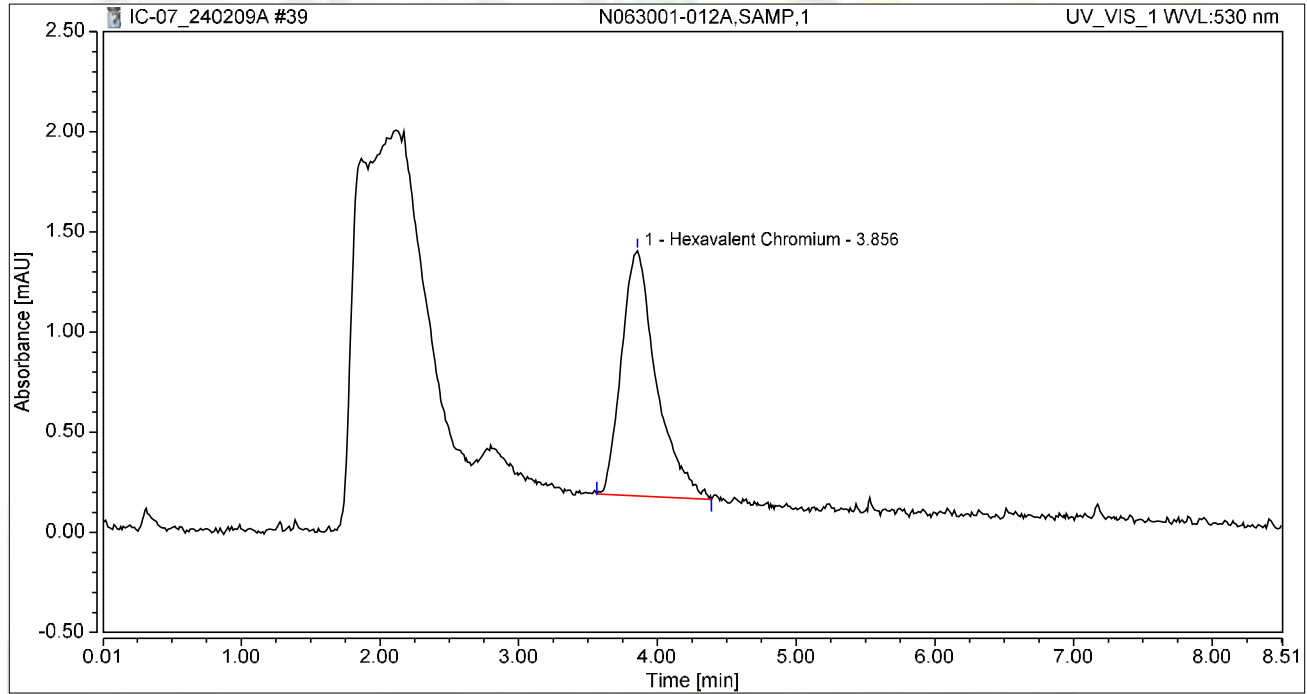
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.338	1.128	100.00	100.00	1.5711
Total:			0.338	1.128	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:21	Sample Weight:	1.0000

Chromatogram



Integration Results

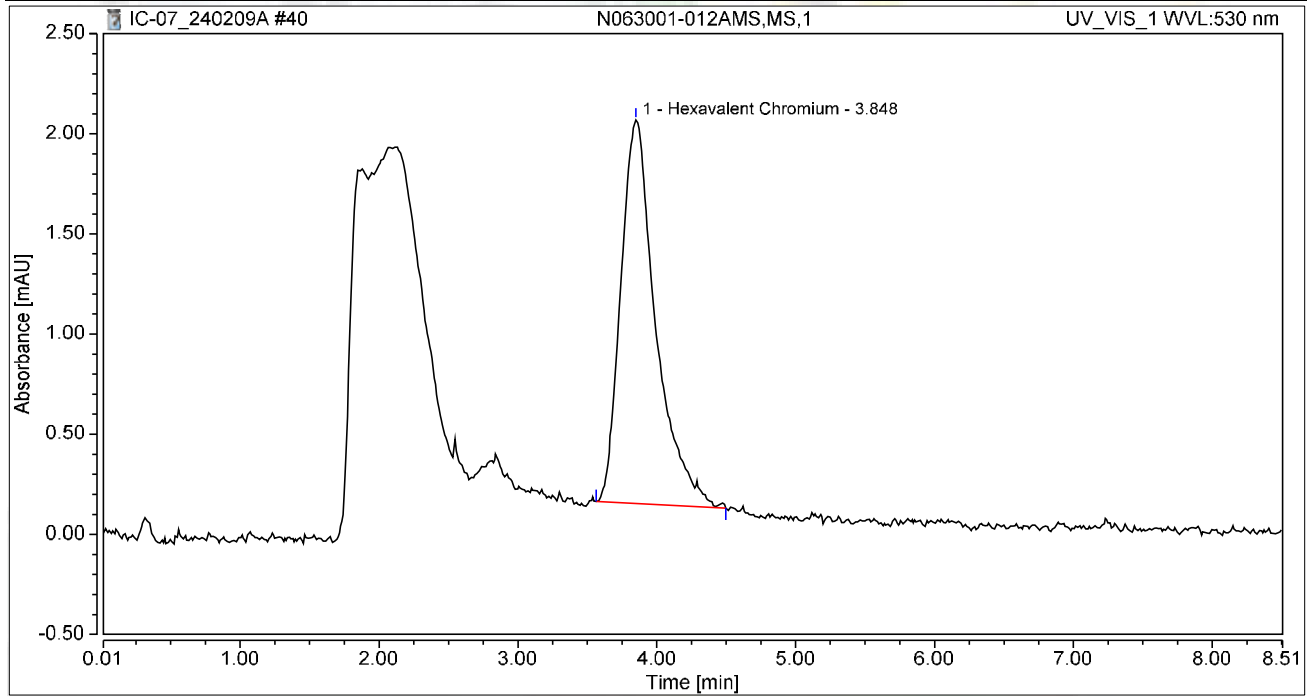
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.356	1.224	100.00	100.00	1.6557
Total:			0.356	1.224	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-012AMS,MS,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:30	Sample Weight:	1.0000

Chromatogram



Integration Results

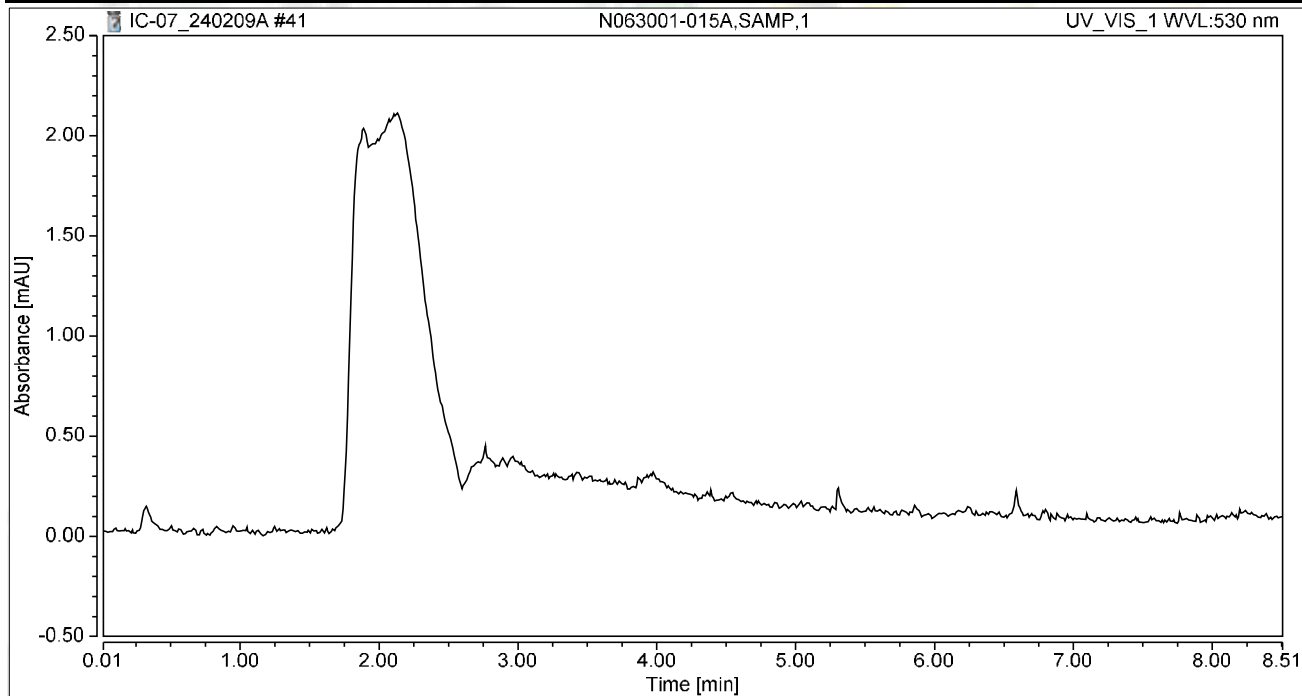
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.559	1.915	100.00	100.00	2.5964
Total:			0.559	1.915	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:40	Sample Weight:	1.0000

Chromatogram



Integration Results

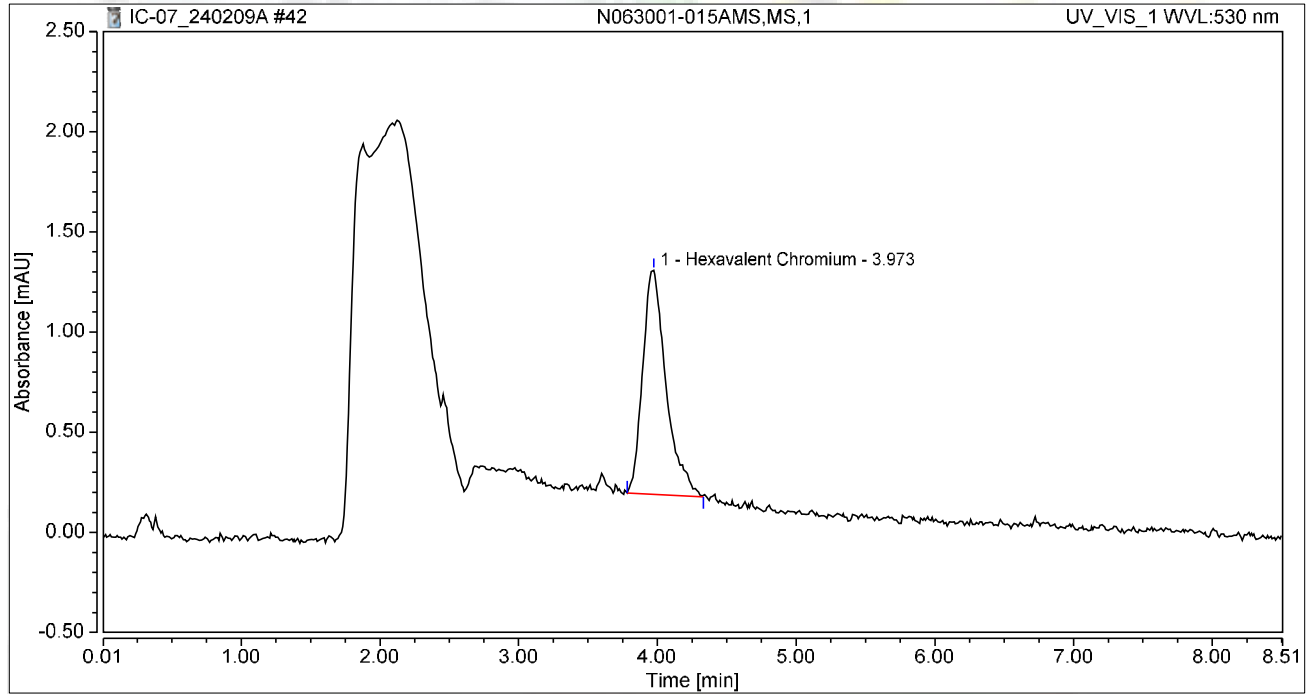
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:49	Sample Weight:	1.0000

Chromatogram



Integration Results

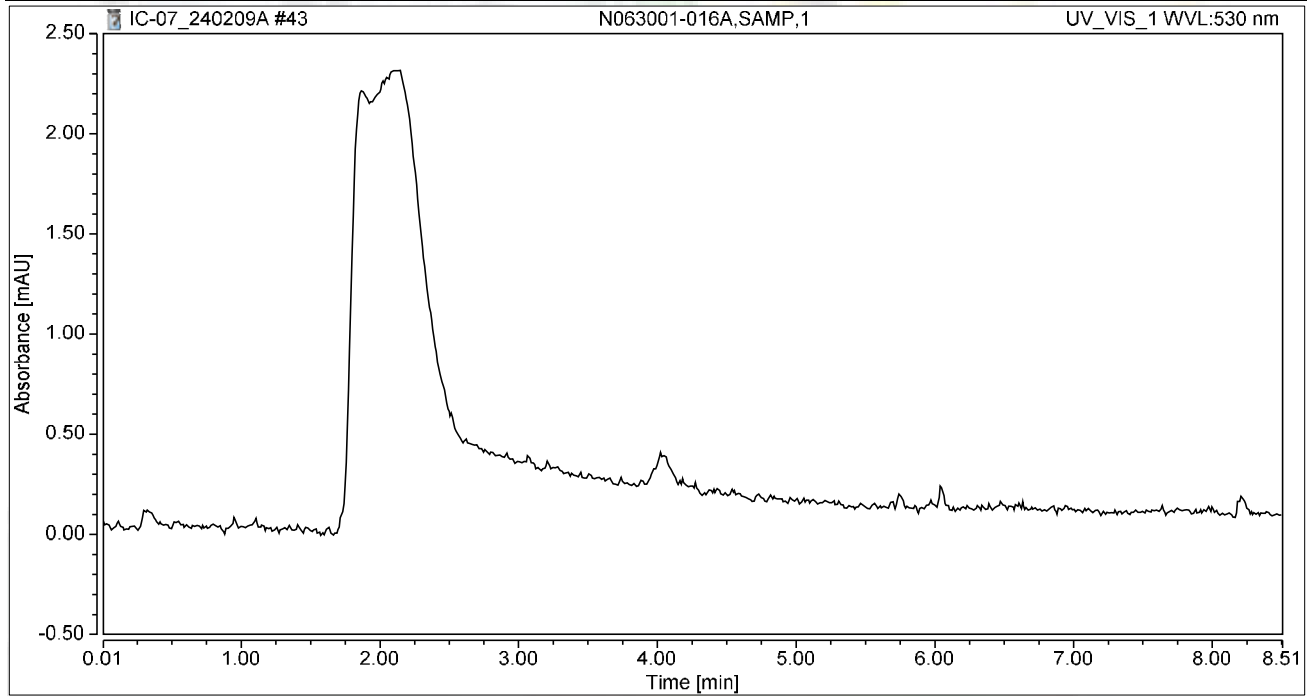
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.973	0.219	1.118	100.00	100.00	1.0171
Total:			0.219	1.118	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-016A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 14:58	Sample Weight:	1.0000

Chromatogram



Integration Results

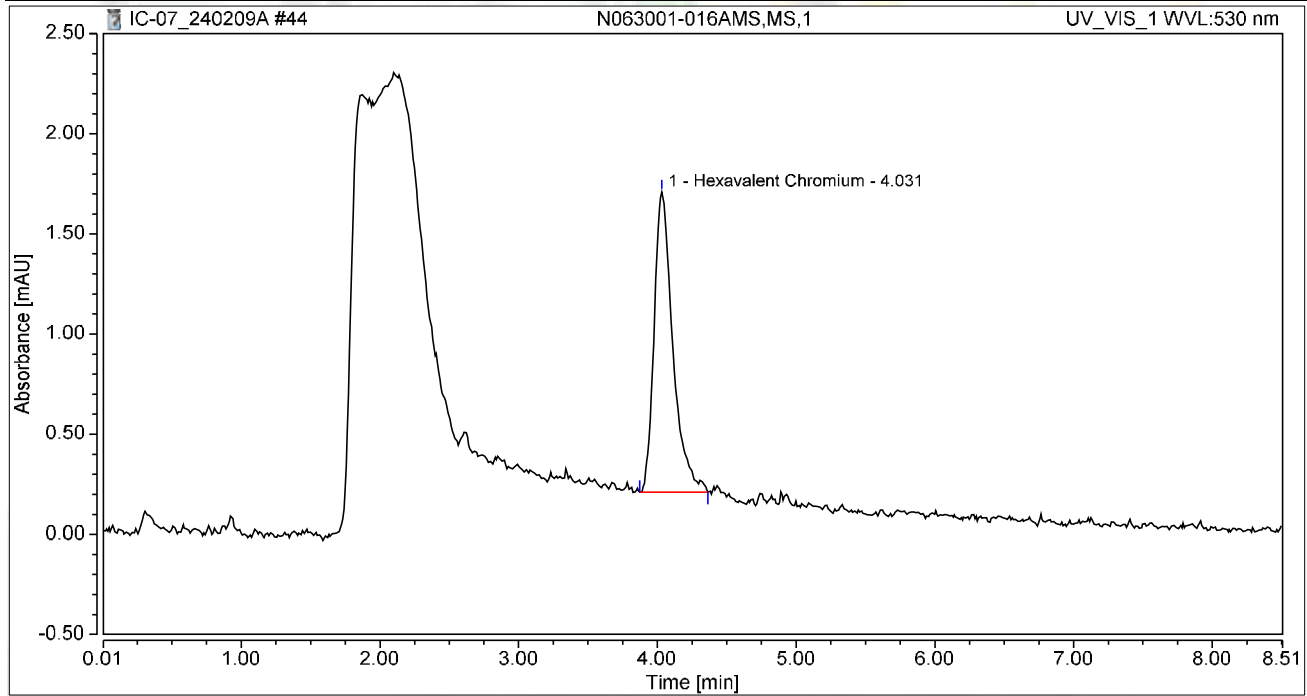
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:08	Sample Weight:	1.0000

Chromatogram



Integration Results

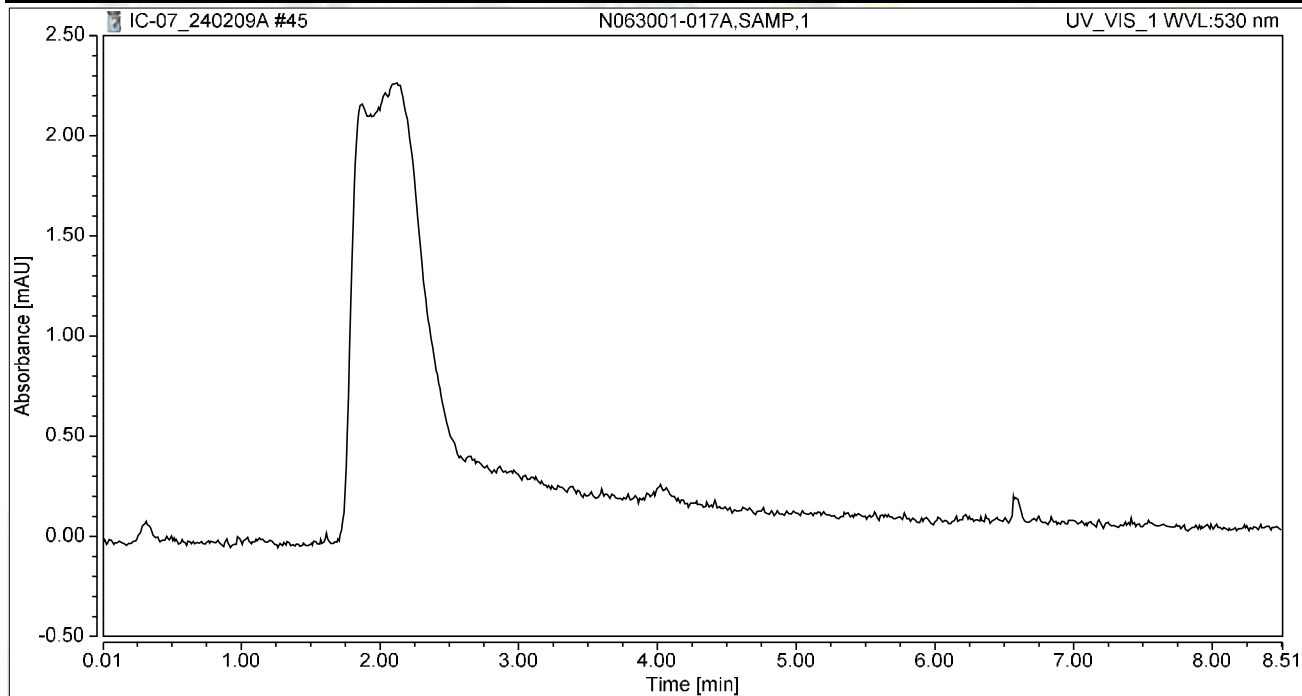
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.235	1.500	100.00	100.00	1.0917
Total:			0.235	1.500	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-017A,SAMP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:17	Sample Weight:	1.0000

Chromatogram



Integration Results

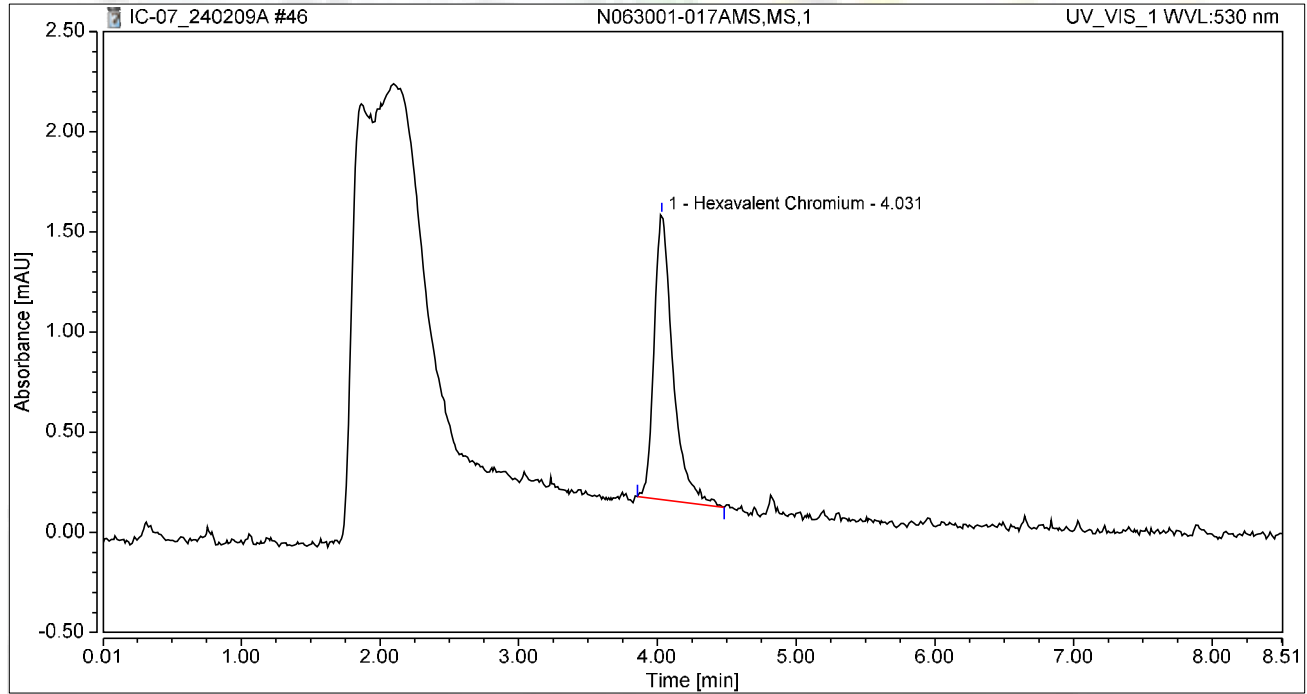
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-017AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:27	Sample Weight:	1.0000

Chromatogram



Integration Results

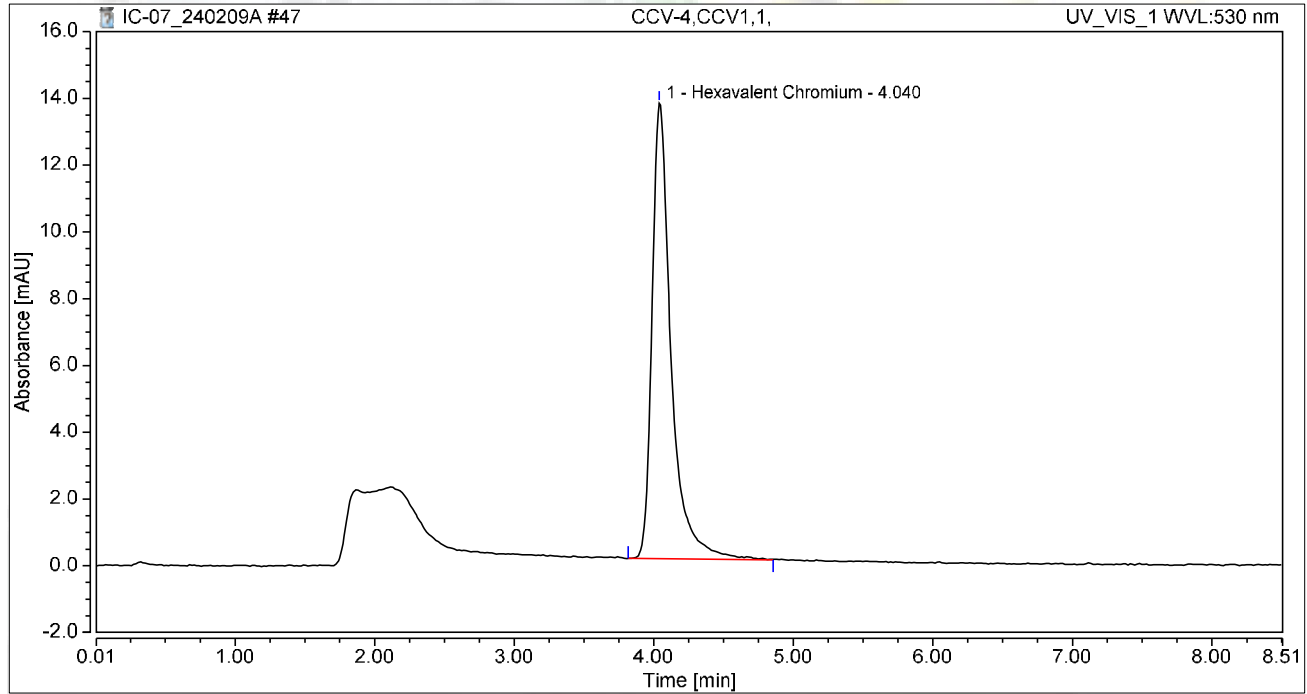
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.224	1.423	100.00	100.00	1.0413
Total:			0.224	1.423	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

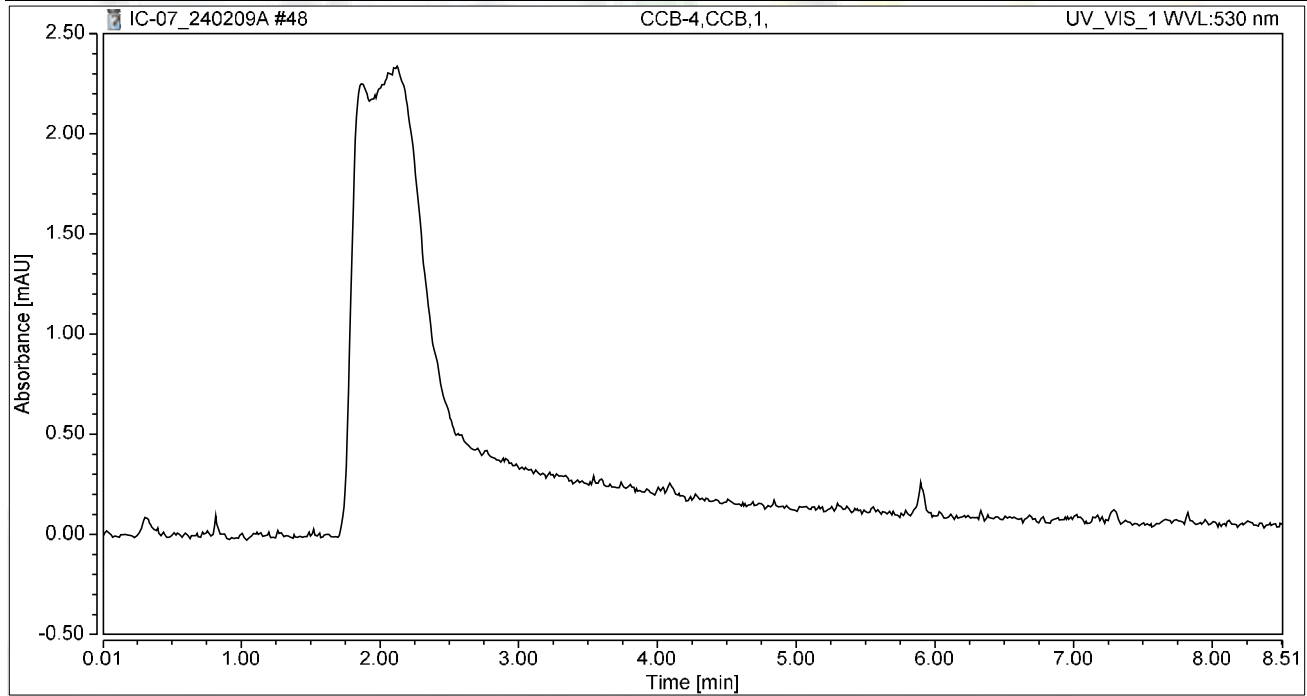
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.162	13.639	100.00	100.00	10.0496
Total:			2.162	13.639	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

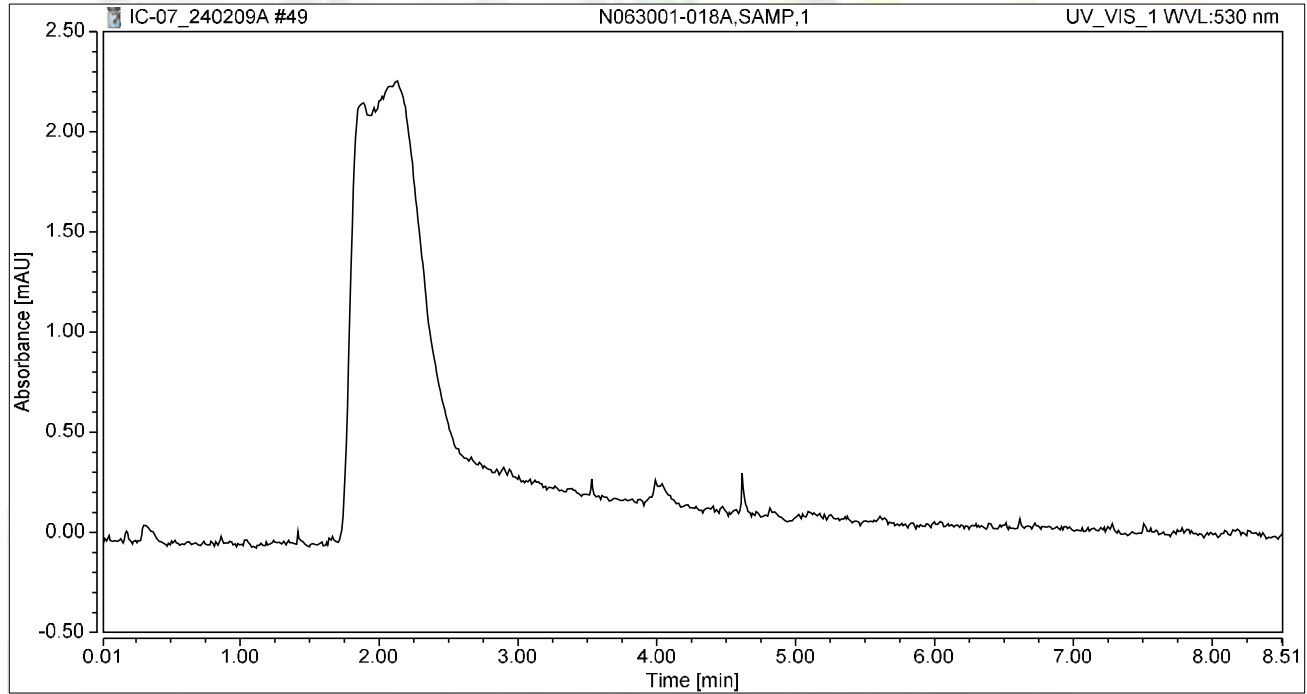
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-018A,SAMP,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 15:55	Sample Weight:	1.0000

Chromatogram



Integration Results

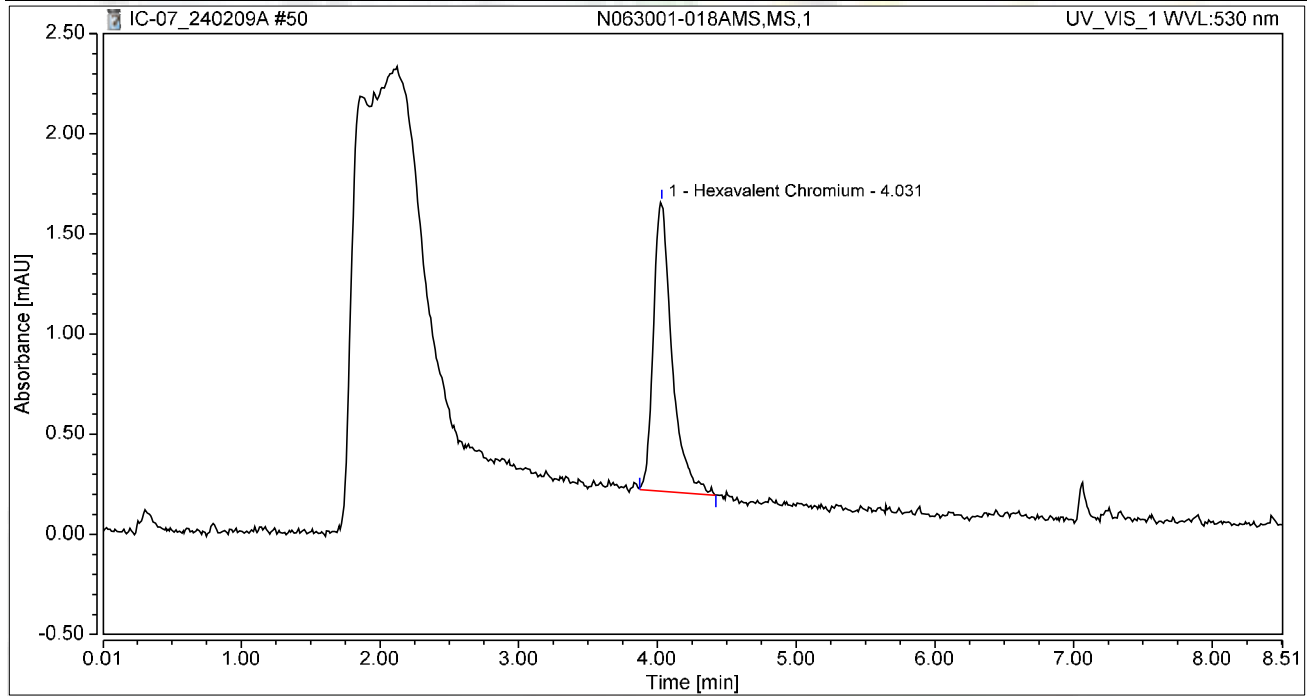
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

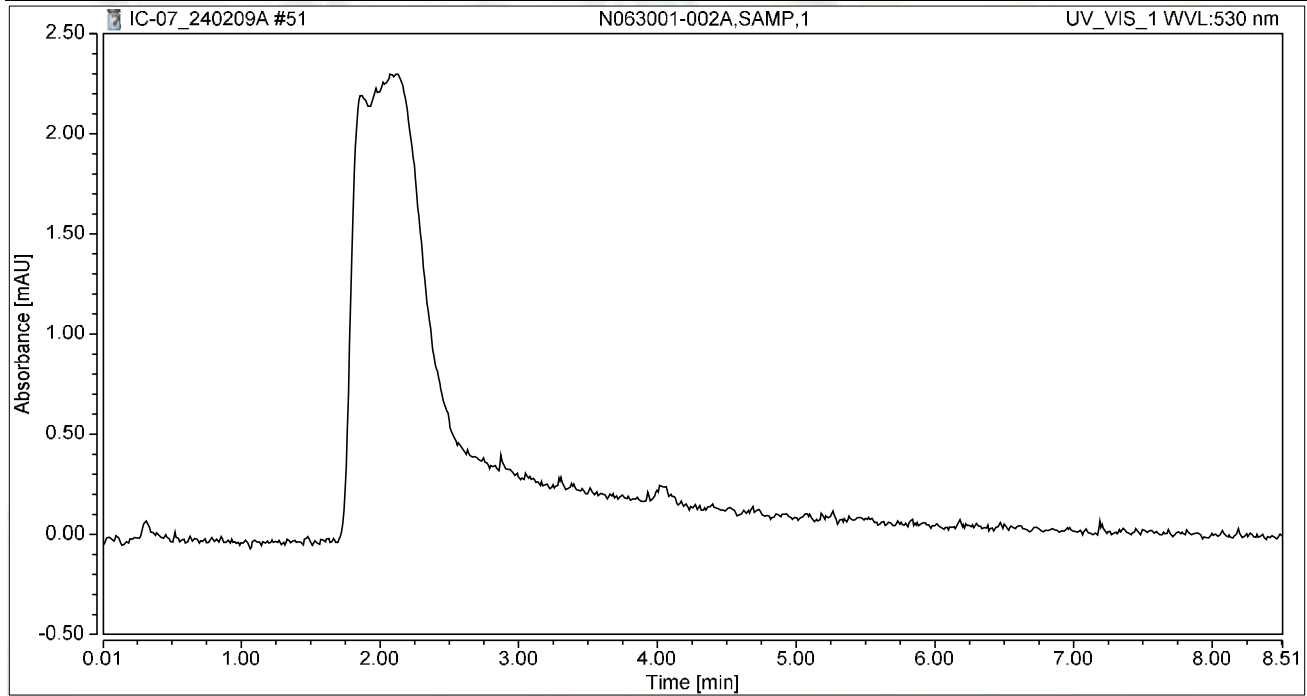
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.225	1.445	100.00	100.00	1.0437
Total:			0.225	1.445	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:14	Sample Weight:	1.0000

Chromatogram



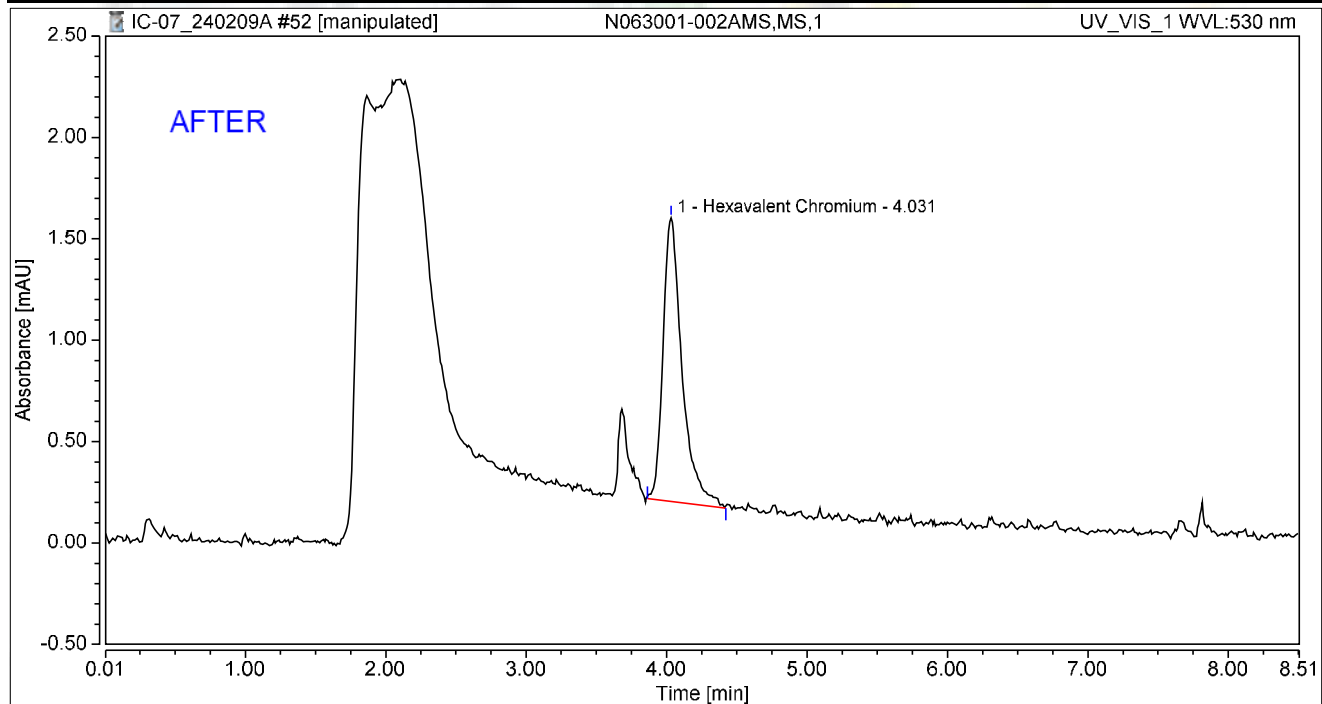
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063001-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	21	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Feb/24 16:23	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.220	1.399	100.00	100.00	1.0221
Total:			0.220	1.399	100.00	100.00	

Reviewed by:

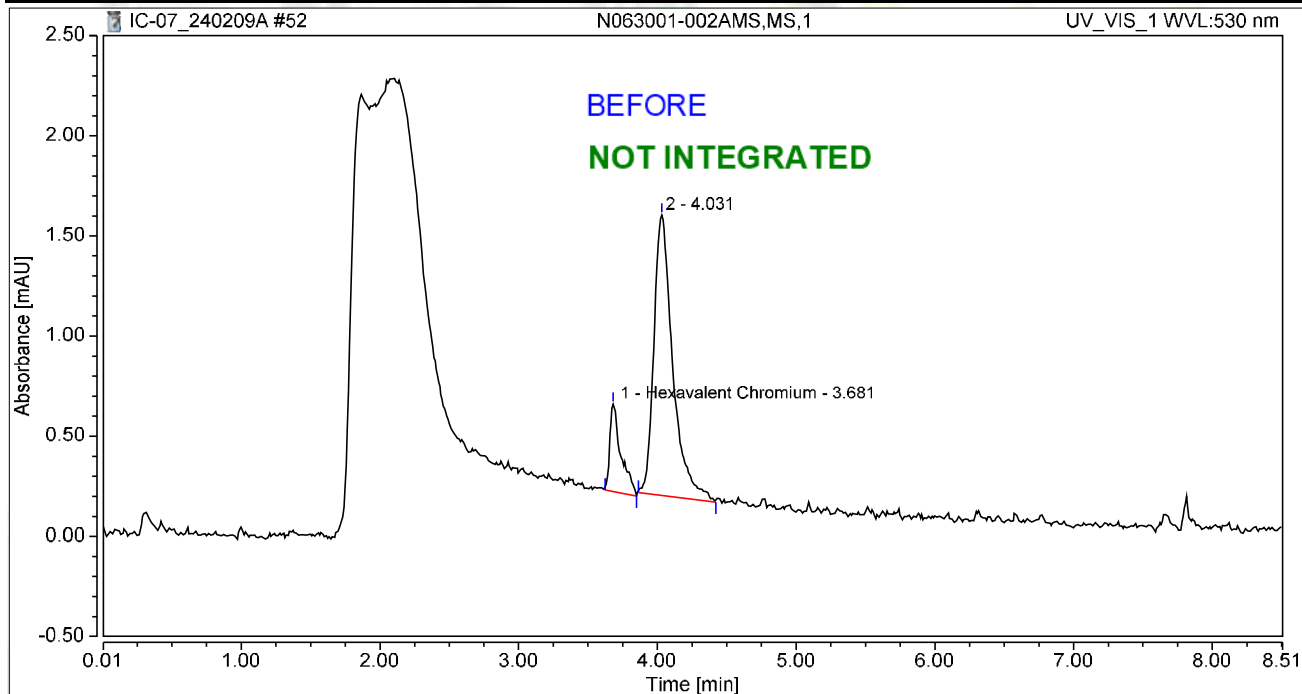
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063001-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:23	Sample Weight:	1.0000

Chromatogram



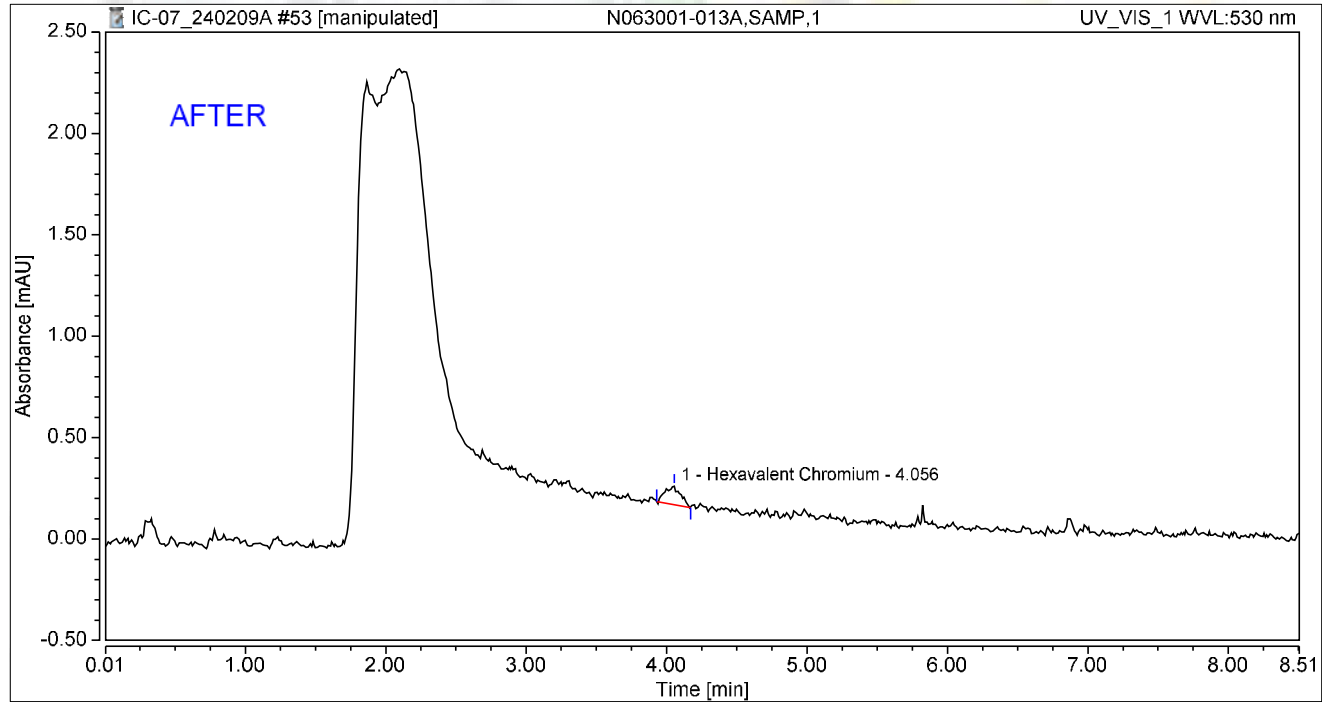
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.681	0.041	0.436	15.62	23.77	0.1892
2		4.031	0.220	1.399	84.38	76.23	n.a.
Total:			0.261	1.835	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063001-013A,SAMP,1	Run Time (min): 8.50
Vial Number:	22	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	09/Feb/24 16:33	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.056	0.011	0.091	100.00	100.00	0.0517
Total:			0.011	0.091	100.00	100.00	

Reviewed by:

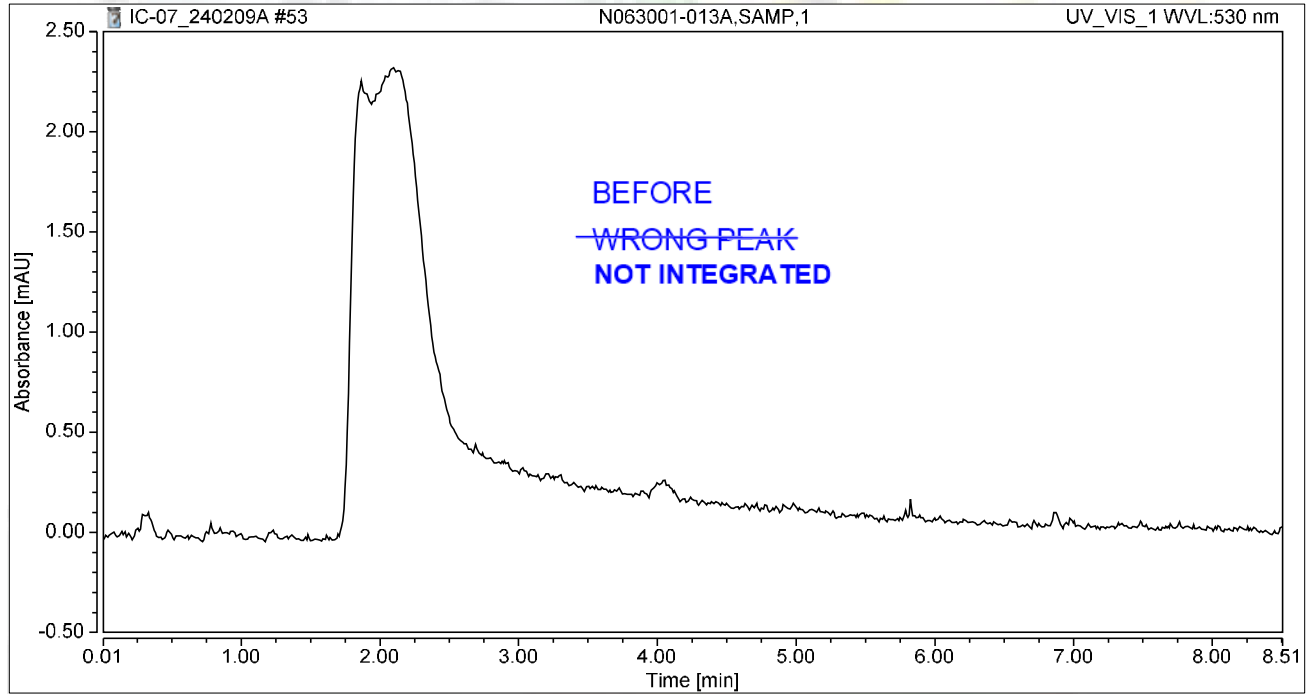
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063001-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

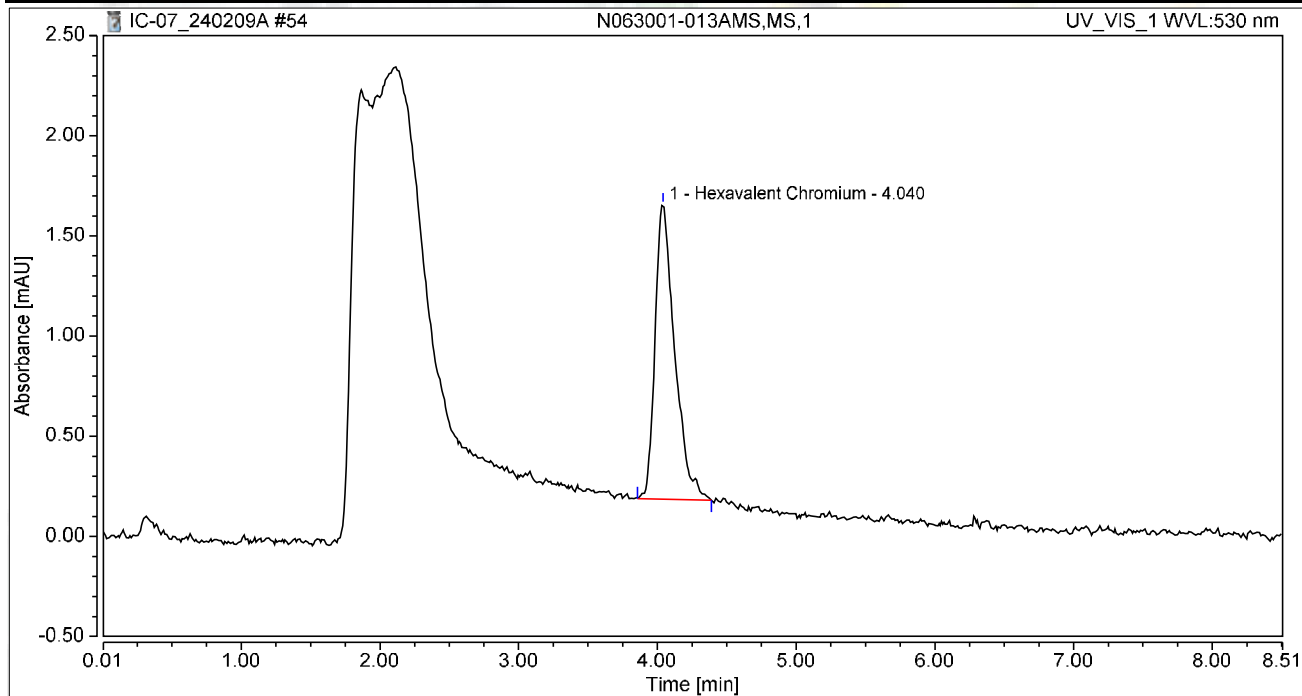
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:42	Sample Weight:	1.0000

Chromatogram



Integration Results

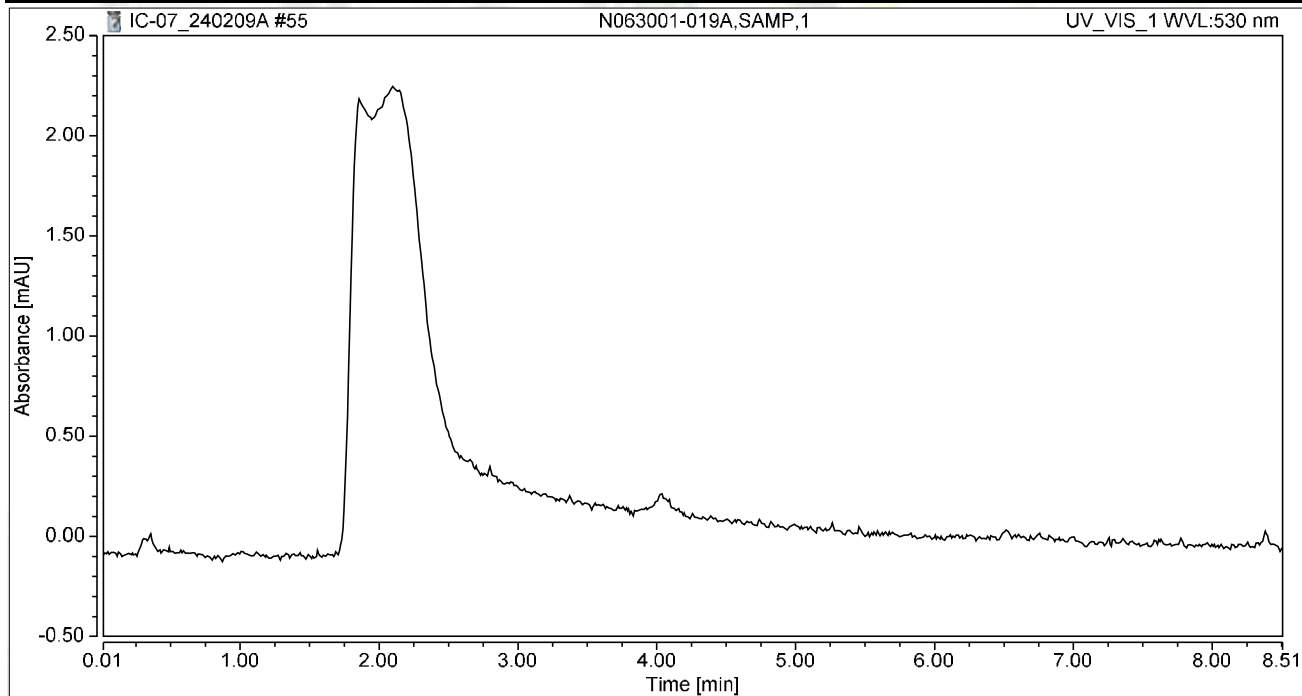
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.242	1.470	100.00	100.00	1.1235
Total:			0.242	1.470	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-019A,SAMP,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

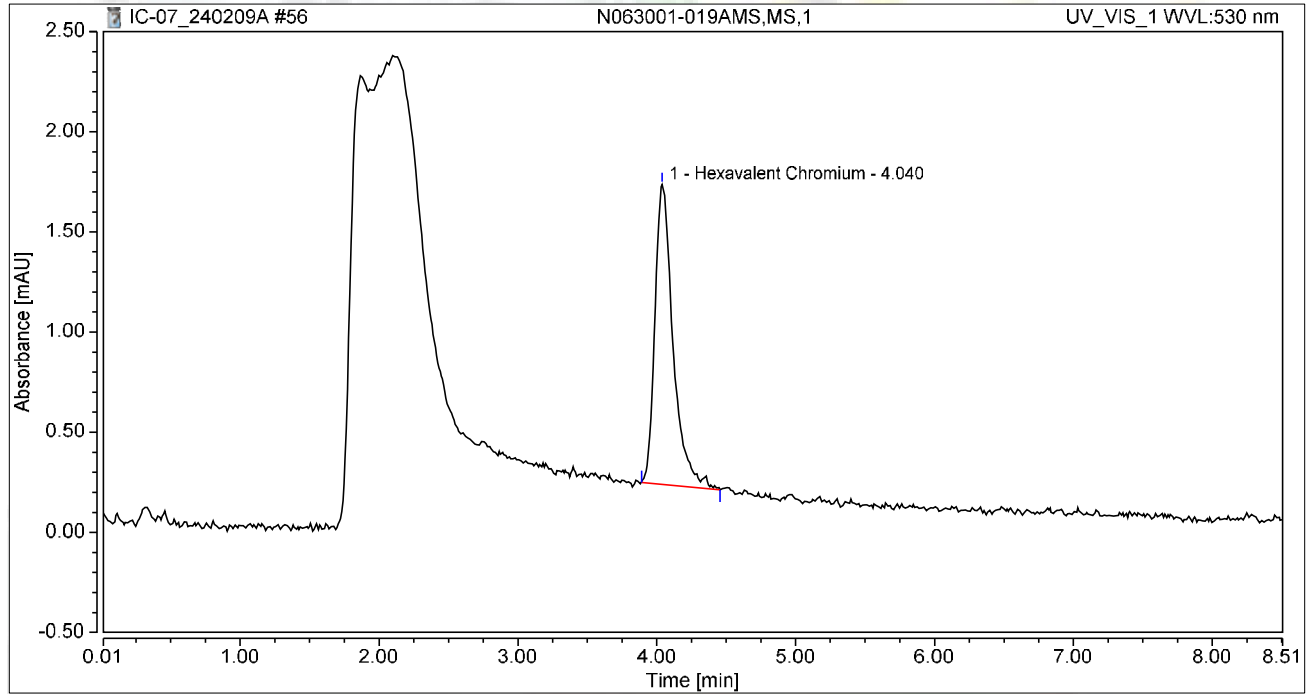
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-019AMS,MS,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:01	Sample Weight:	1.0000

Chromatogram



Integration Results

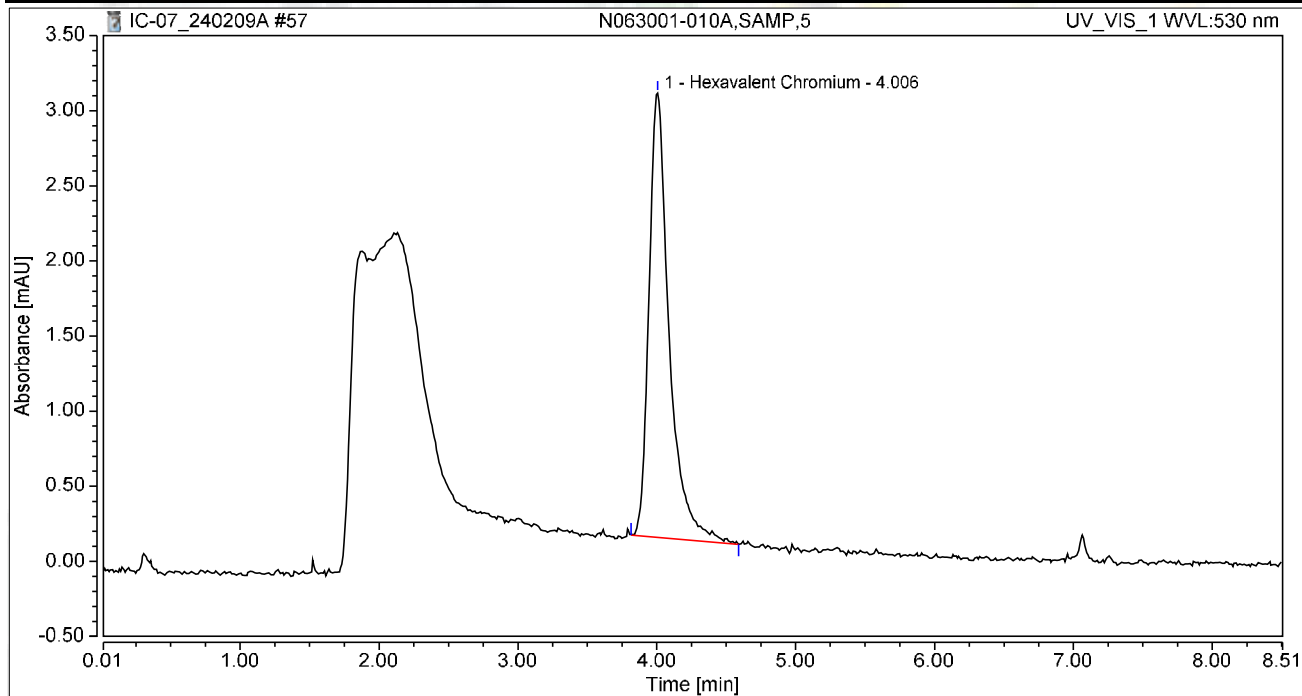
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.227	1.497	100.00	100.00	1.0547
Total:			0.227	1.497	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-010A,SAMP,5	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

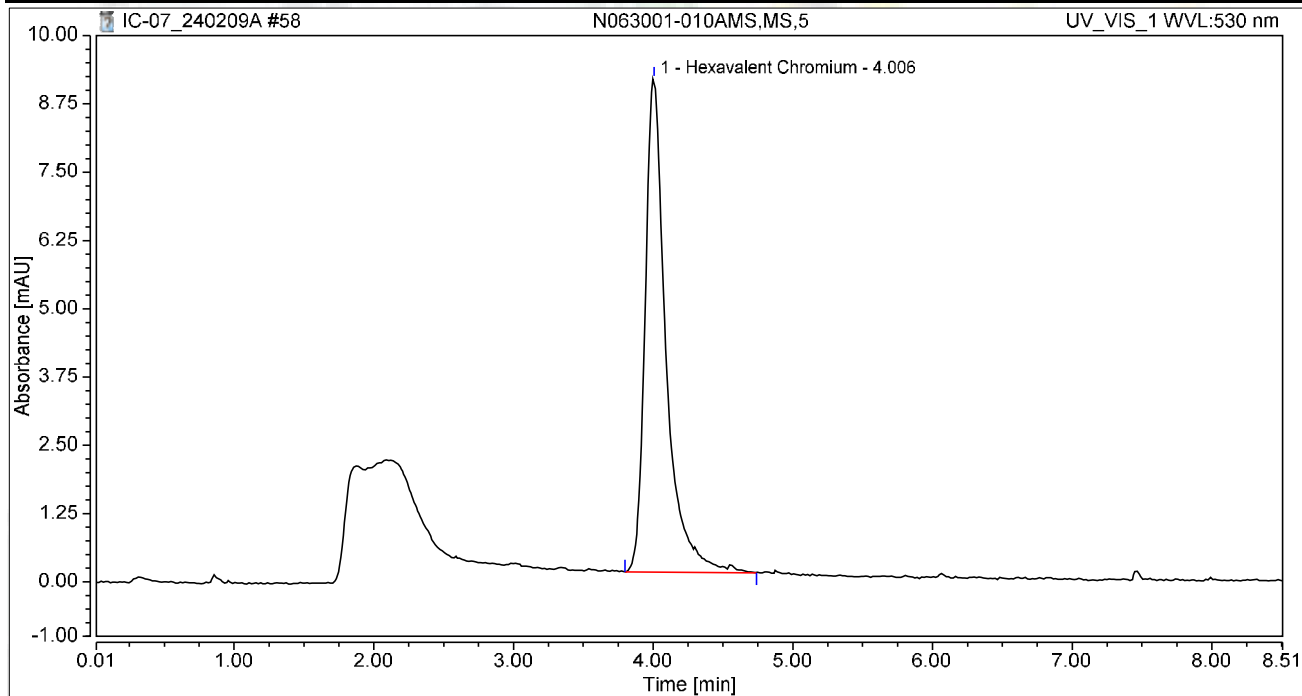
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.498	2.957	100.00	100.00	2.3139
Total:			0.498	2.957	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-010AMS,MS,5	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:20	Sample Weight:	1.0000

Chromatogram



Integration Results

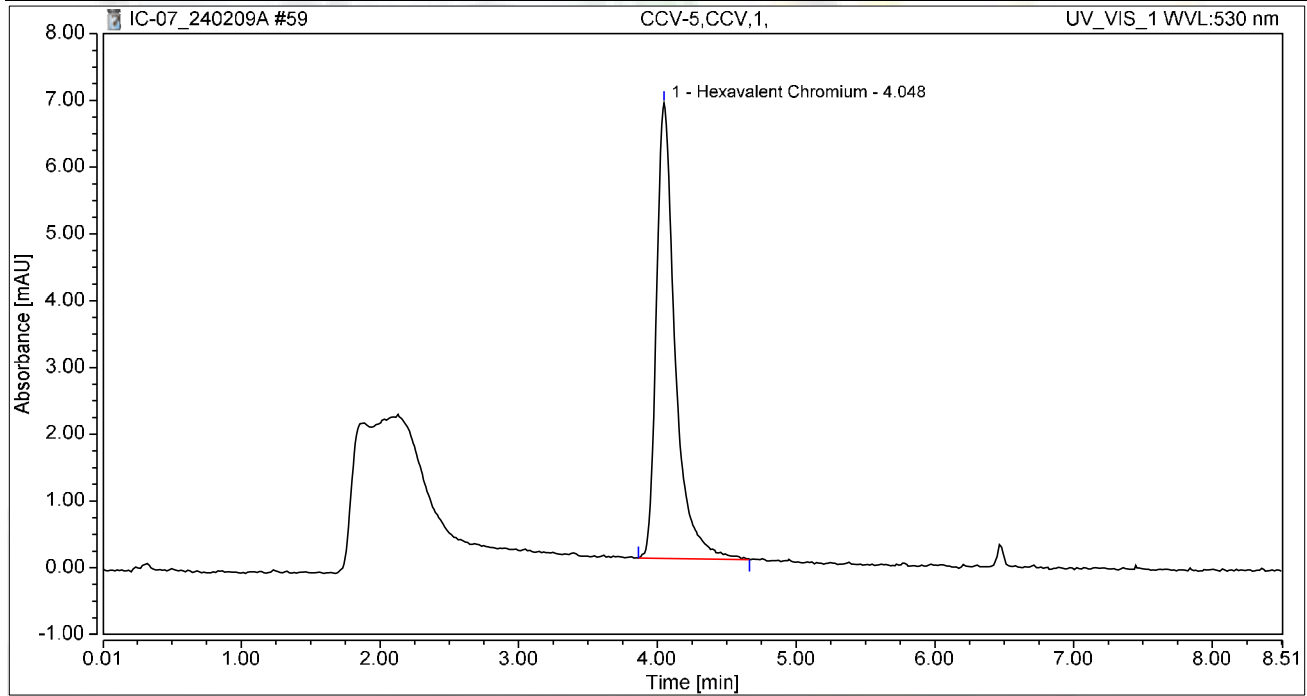
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	1.570	9.032	100.00	100.00	7.2980
Total:			1.570	9.032	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

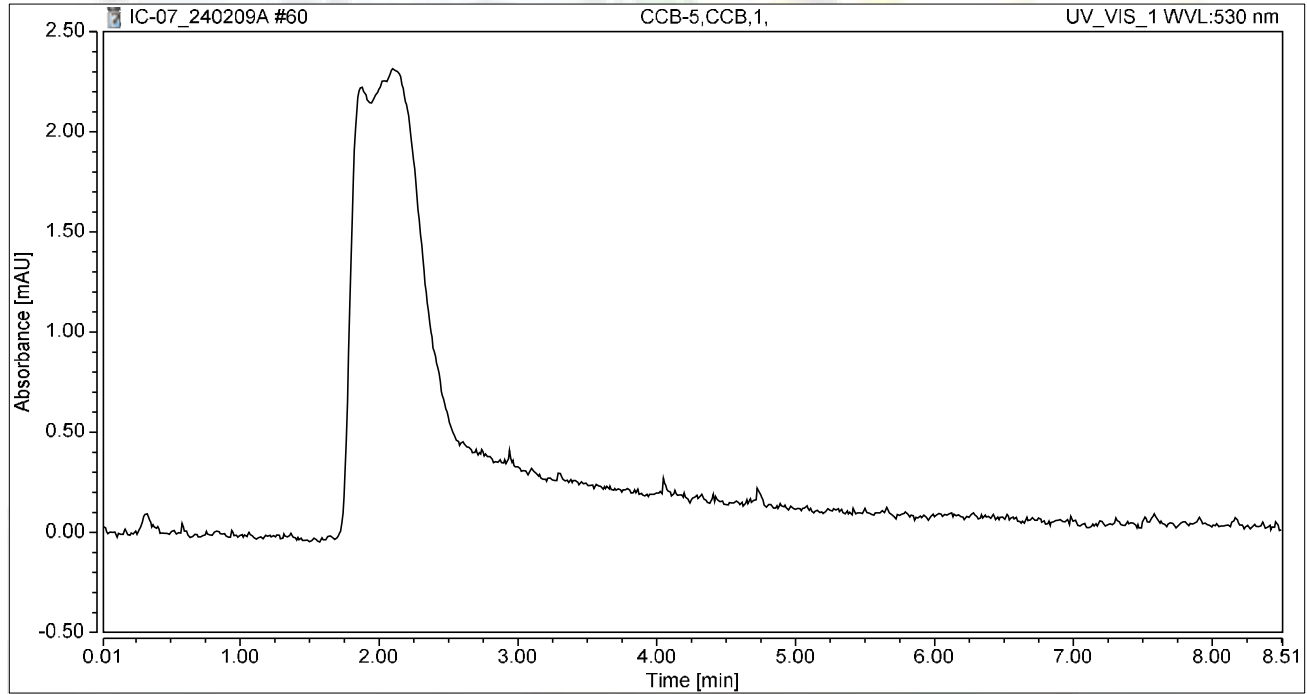
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.069	6.824	100.00	100.00	4.9703
Total:			1.069	6.824	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	CCB-5,CCB,1,	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	29	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	240205_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	09/Feb/24 17:39	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

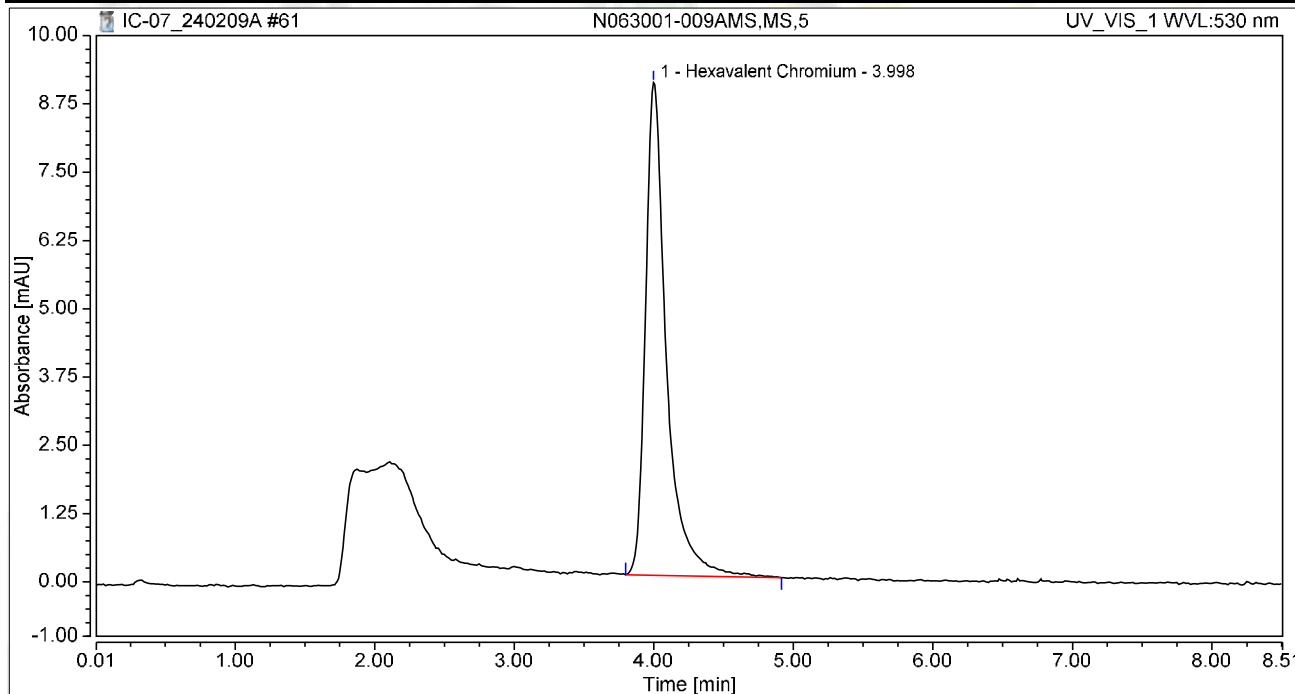
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

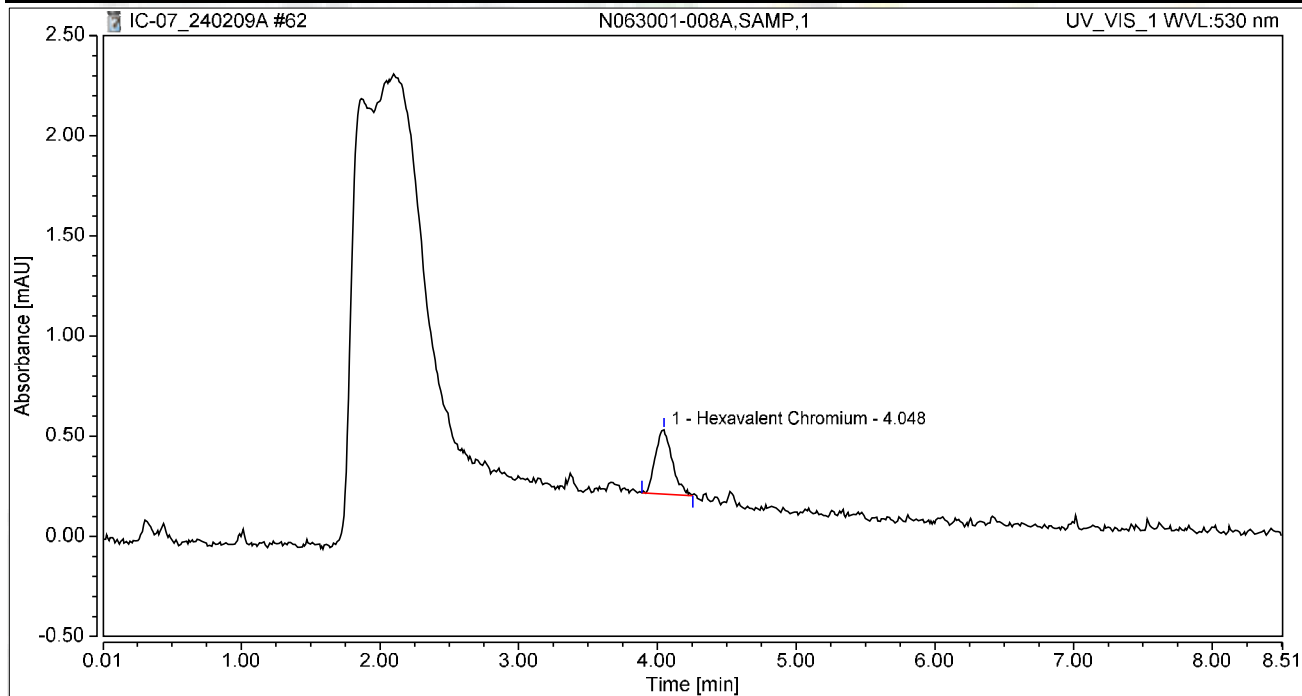
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.998	1.578	9.021	100.00	100.00	7.3381
Total:			1.578	9.021	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 17:58	Sample Weight:	1.0000

Chromatogram



Integration Results

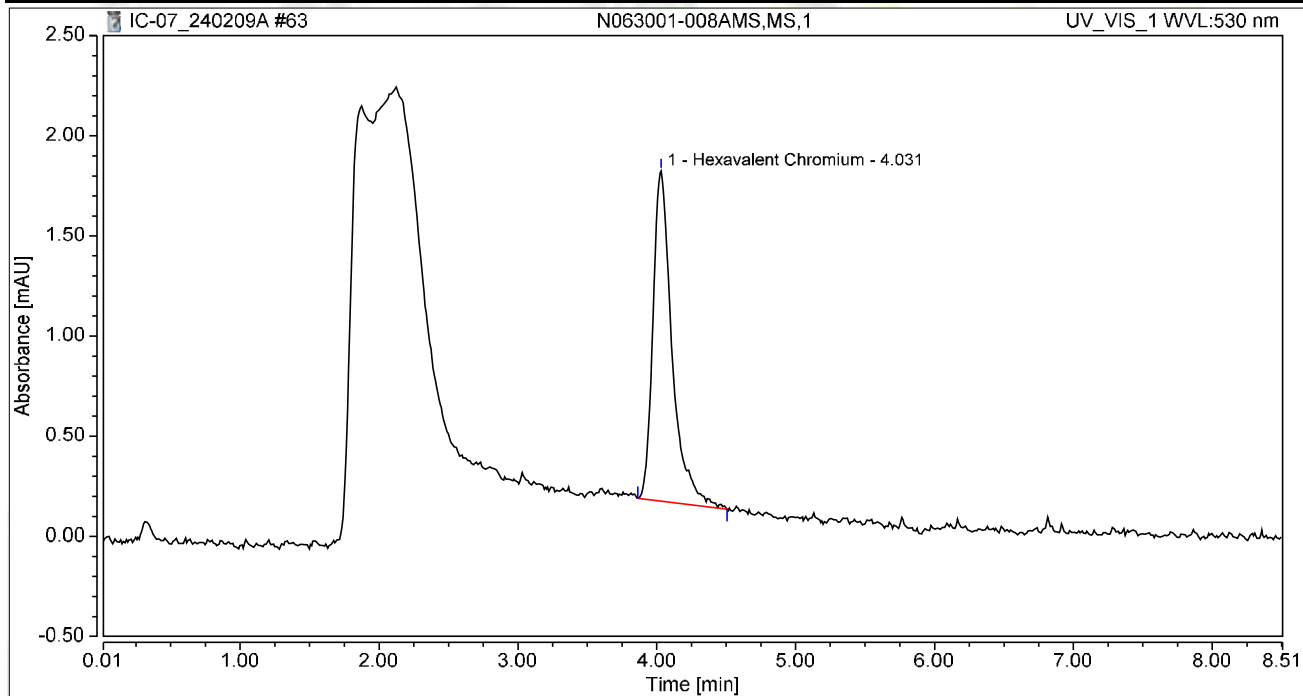
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.045	0.320	100.00	100.00	0.2115
Total:			0.045	0.320	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

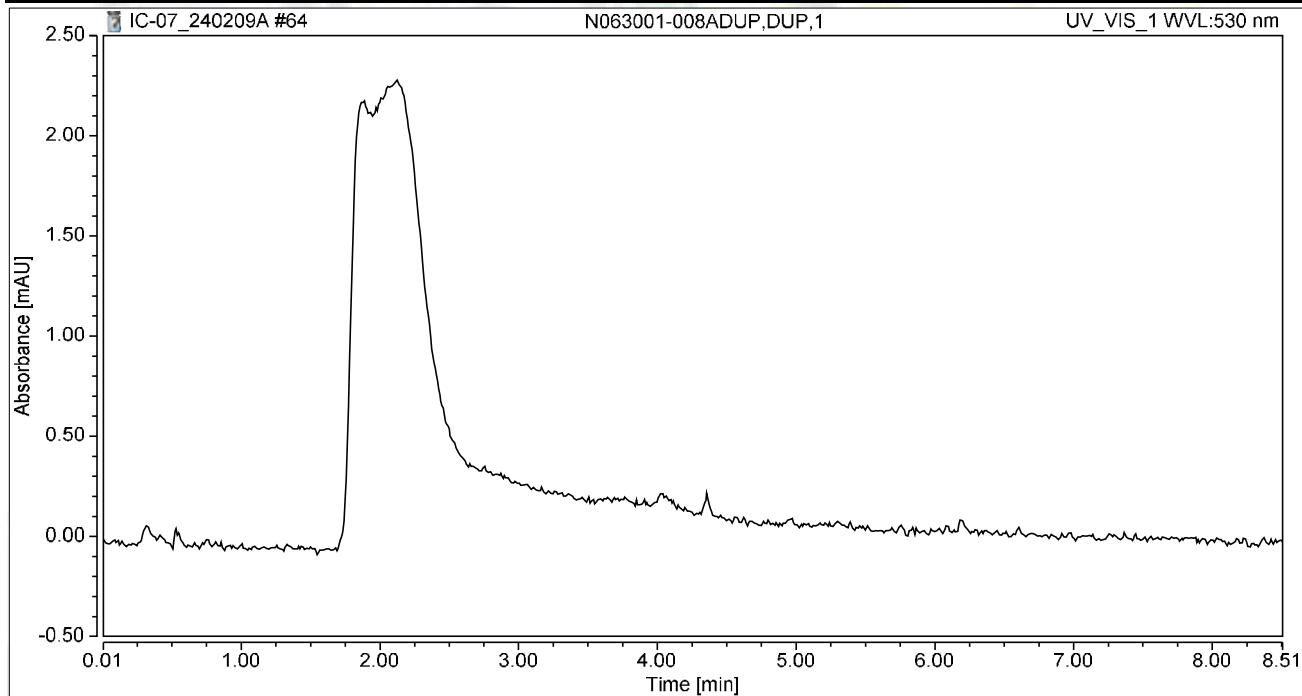
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.263	1.649	100.00	100.00	1.2210
Total:			0.263	1.649	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-008ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:17	Sample Weight:	1.0000

Chromatogram



Integration Results

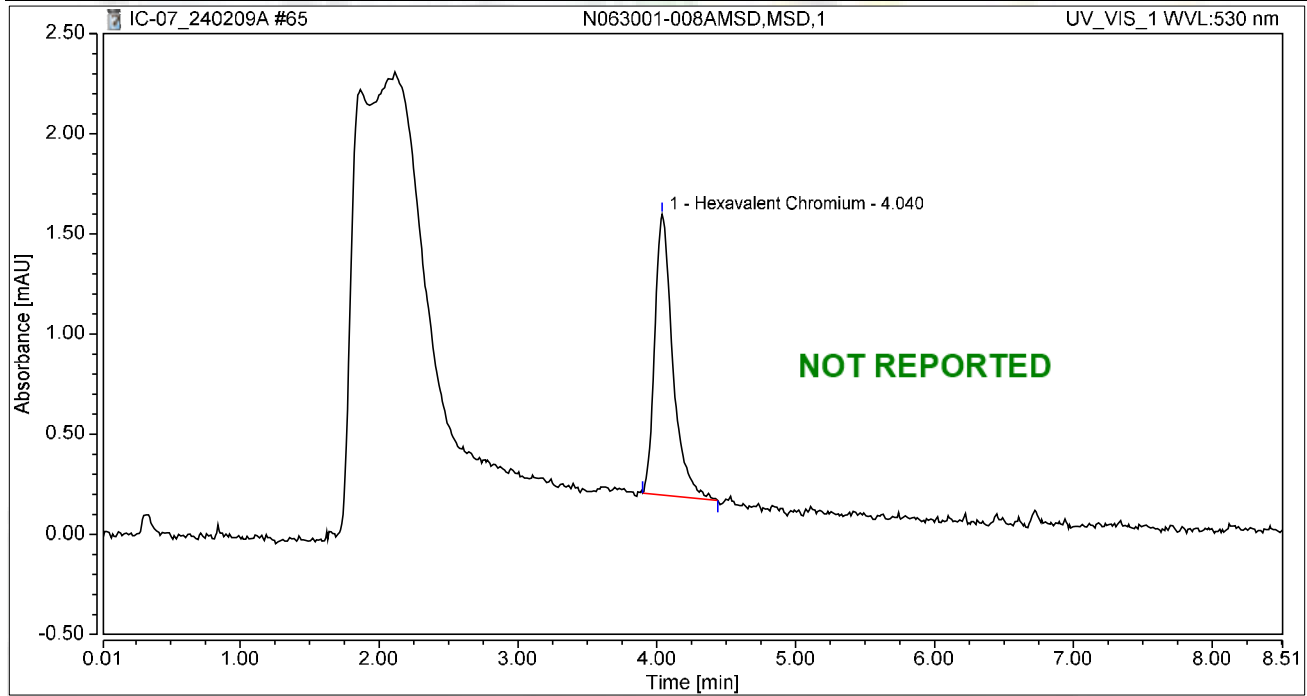
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-008AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:26	Sample Weight:	1.0000

Chromatogram



Integration Results

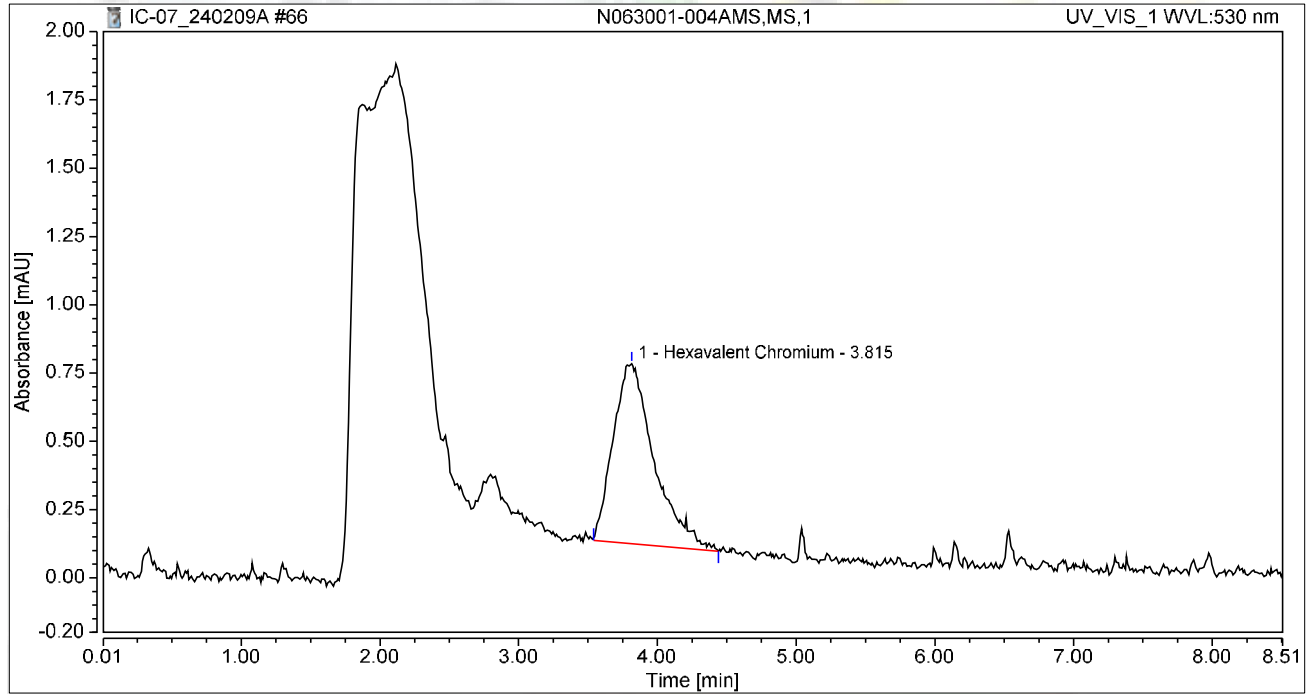
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.211	1.401	100.00	100.00	0.9817
Total:			0.211	1.401	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

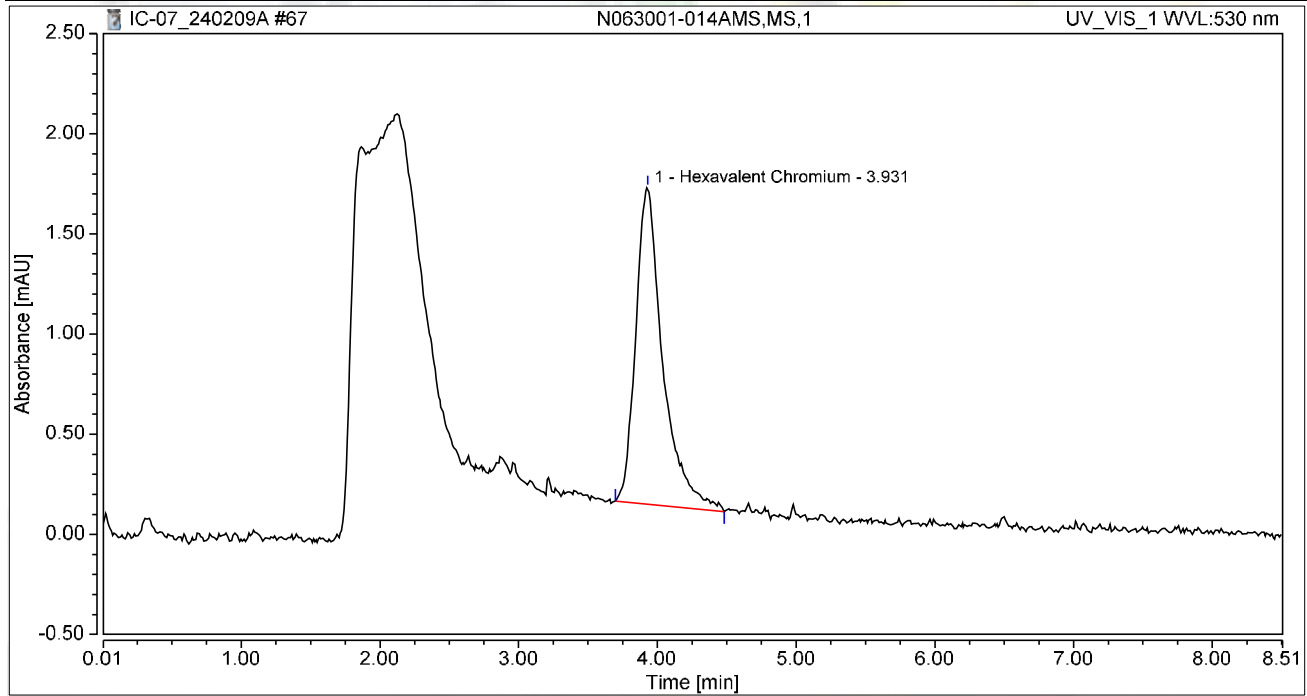
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.815	0.226	0.659	100.00	100.00	1.0512
Total:			0.226	0.659	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:45	Sample Weight:	1.0000

Chromatogram



Integration Results

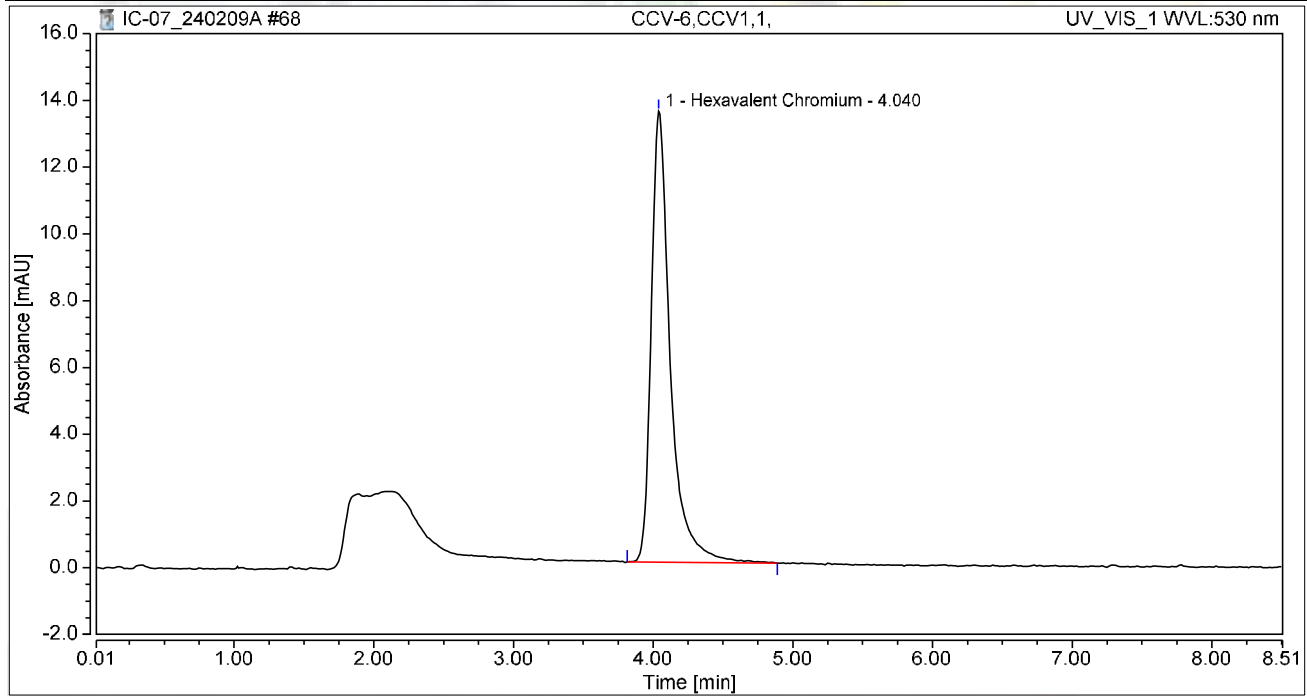
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.931	0.356	1.580	100.00	100.00	1.6562
Total:			0.356	1.580	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

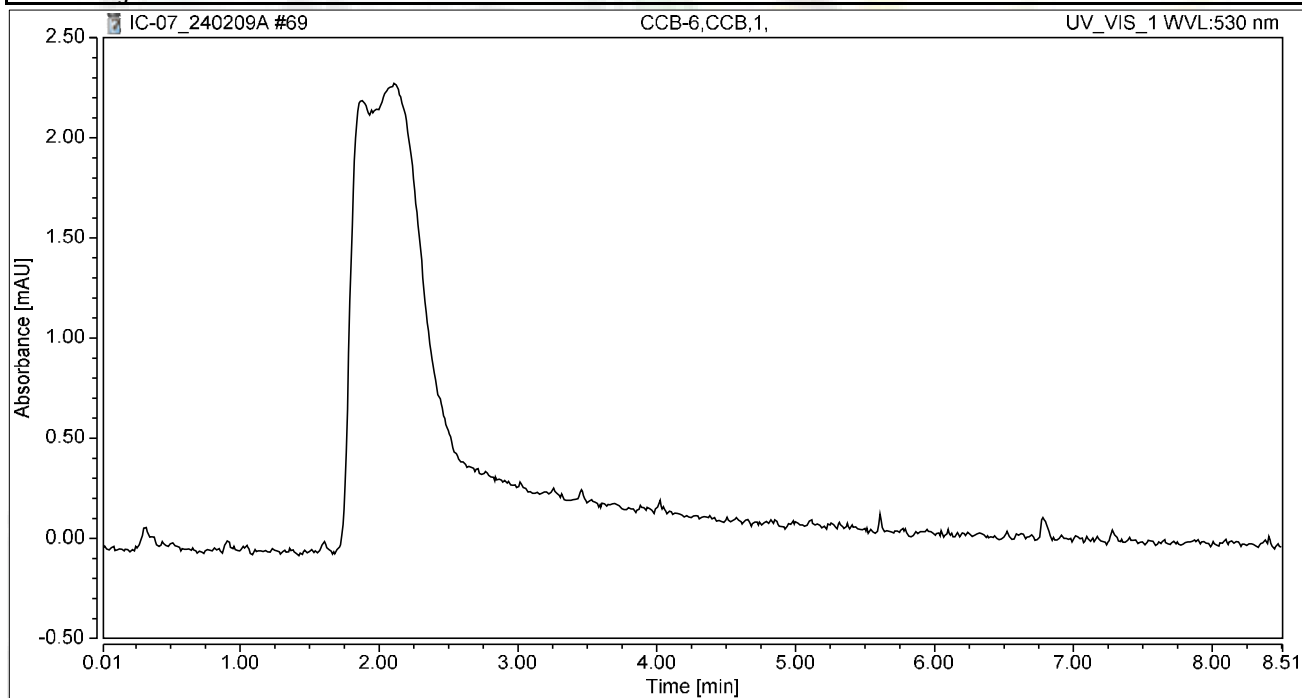
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.138	13.505	100.00	100.00	9.9396
Total:			2.138	13.505	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 19:04	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

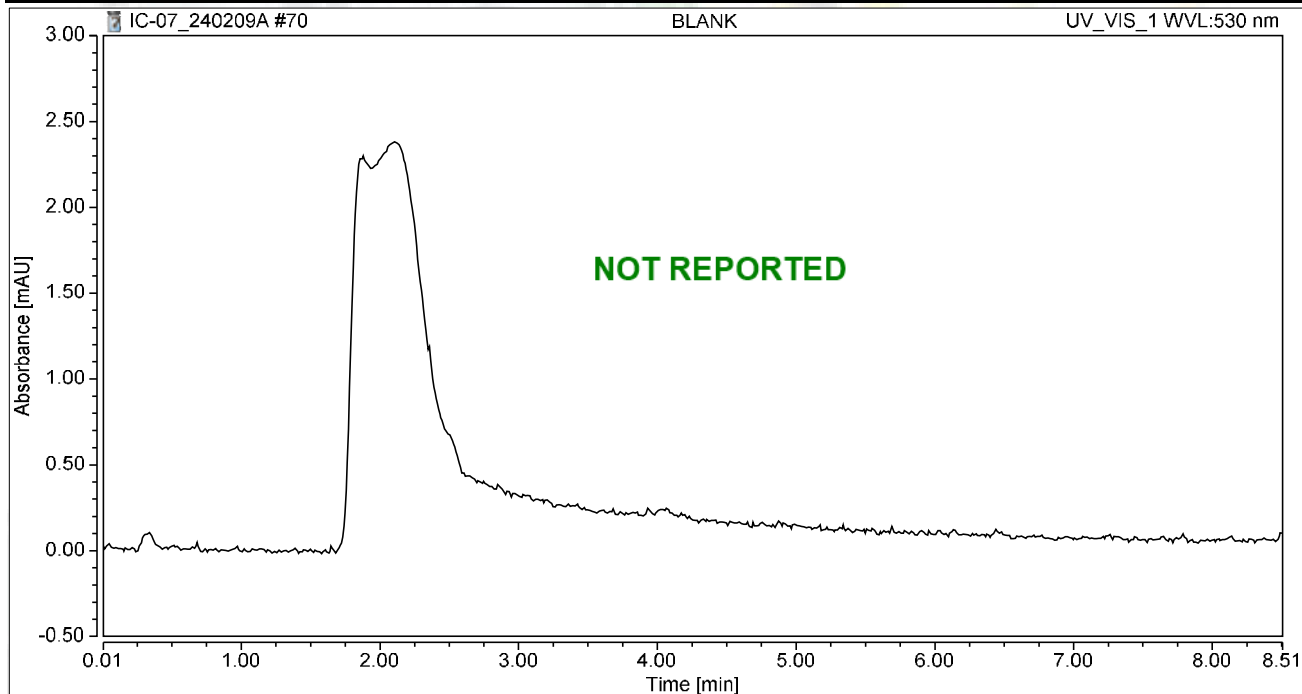
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	09/Feb/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 240212A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	02/05/24 11:59 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	02/05/24 12:09 PM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:19 PM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:28 PM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:38 PM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:47 PM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 12:57 PM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	02/05/24 1:08 PM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	02/12/24 9:22 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	02/12/24 9:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	02/12/24 9:47 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	02/12/24 9:57 AM	Reported
13	MB-R181444	MBLK	1	Hexavalent Chromium	02/12/24 10:06 AM	Reported
14	LCS-R181444	LCS	1	Hexavalent Chromium	02/12/24 10:16 AM	Reported
15	N063001-021A	SAMP	1	Hexavalent Chromium	02/12/24 10:45 AM	Reported
16	N063001-021AMS	MS	1	Hexavalent Chromium	02/12/24 10:57 AM	Not Reported
17	N063012-004A	SAMP	500	Hexavalent Chromium	02/12/24 11:09 AM	Reported
18	N063012-004AMS	MS	500	Hexavalent Chromium	02/12/24 11:18 AM	Reported
19	N063012-004AMSD	MSD	500	Hexavalent Chromium	02/12/24 11:28 AM	Reported
20	N063012-002A	SAMP	500	Hexavalent Chromium	02/12/24 11:50 AM	Reported
21	N063012-002ADUP	DUP	500	Hexavalent Chromium	02/12/24 12:02 PM	Reported
22	N063012-002AMS	MS	500	Hexavalent Chromium	02/12/24 12:11 PM	Reported
23	CCV-2	CCV	1	Hexavalent Chromium	02/12/24 12:21 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	02/12/24 12:30 PM	Reported
25	N063012-006A	SAMP	1	Hexavalent Chromium	02/12/24 12:40 PM	Reported
26	N063012-006AMS	MS	1	Hexavalent Chromium	02/12/24 12:49 PM	Reported
27	N063012-007A	SAMP	1	Hexavalent Chromium	02/12/24 12:58 PM	Reported
28	N063012-007AMS	MS	1	Hexavalent Chromium	02/12/24 1:08 PM	Reported
29	N063012-009A	SAMP	1	Hexavalent Chromium	02/12/24 1:17 PM	Reported
30	N063012-009AMS	MS	1	Hexavalent Chromium	02/12/24 1:27 PM	Reported
31	N063012-001A	SAMP	100	Hexavalent Chromium	02/12/24 1:36 PM	Reported
32	N063012-001AMS	MS	100	Hexavalent Chromium	02/12/24 1:46 PM	Reported
33	N063001-020A	SAMP	1	Hexavalent Chromium	02/12/24 1:55 PM	Reported
34	N063001-020AMS	MS	1	Hexavalent Chromium	02/12/24 2:05 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	02/12/24 2:14 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	02/12/24 2:24 PM	Reported
37	N063010-001A	SAMP	1	Hexavalent Chromium	02/12/24 2:33 PM	Reported
38	N063010-001AMS	MS	1	Hexavalent Chromium	02/12/24 2:43 PM	Reported
39	N063010-002A	SAMP	1	Hexavalent Chromium	02/12/24 2:52 PM	Reported
40	N063010-002AMS	MS	1	Hexavalent Chromium	02/12/24 3:01 PM	Reported
41	N063010-003A	SAMP	1	Hexavalent Chromium	02/12/24 3:11 PM	Reported
42	N063010-003AMS	MS	1	Hexavalent Chromium	02/12/24 3:20 PM	Reported

INJECTION LOG: 240212A

Instrument ID: IC-07

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N063012-003A	SAMP	500	Hexavalent Chromium	02/12/24 3:30 PM	Reported
44	N063012-003AMS	MS	500	Hexavalent Chromium	02/12/24 3:39 PM	Reported
45	N062966-003A	SAMP	5	Hexavalent Chromium	02/12/24 3:49 PM	Reported
46	N062966-003AMS	MS	5	Hexavalent Chromium	02/12/24 3:58 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	02/12/24 4:08 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	02/12/24 4:17 PM	Reported
49	N063001-003A	SAMP	5	Hexavalent Chromium	02/12/24 4:26 PM	Reported
50	N063001-003AMS	MS	5	Hexavalent Chromium	02/12/24 4:36 PM	Reported
51	N063001-022A	SAMP	1	Hexavalent Chromium	02/12/24 4:45 PM	Reported
52	N063001-022AMS	MS	1	Hexavalent Chromium	02/12/24 4:55 PM	Reported
53	N063012-005A	SAMP	1	Hexavalent Chromium	02/12/24 5:04 PM	Reported
54	N063012-005AMS	MS	1	Hexavalent Chromium	02/12/24 5:14 PM	Reported
55	N063012-008A	SAMP	1	Hexavalent Chromium	02/12/24 5:23 PM	Reported
56	N063012-008AMS	MS	1	Hexavalent Chromium	02/12/24 5:33 PM	Reported
57	N063012-010A	SAMP	1	Hexavalent Chromium	02/12/24 5:42 PM	Reported
58	N063012-010AMS	MS	1	Hexavalent Chromium	02/12/24 5:52 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	02/12/24 6:01 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	02/12/24 6:14 PM	Reported
61	N063012-011A	SAMP	1	Hexavalent Chromium	02/12/24 6:24 PM	Reported
62	N063012-011AMS	MS	1	Hexavalent Chromium	02/12/24 6:33 PM	Reported
63	N063001-021AMS	MS	1	Hexavalent Chromium	02/12/24 6:43 PM	Reported
64	CCV-6	CCV1	1	Hexavalent Chromium	02/12/24 6:52 PM	Reported
65	CCB-6	CCB	1	Hexavalent Chromium	02/12/24 7:02 PM	Reported
66	BLANK	BLANK	1	Hexavalent Chromium	02/12/24 7:14 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_240212A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Feb/24 19:44:39
No. of Injections:	69	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		02/05/2024 11:59	Finished	BLANK
2	iBLANK	2	1000	Unknown		02/05/2024 12:09	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	02/05/2024 12:19	Finished	0.2 ppb, IWST-231228A
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	02/05/2024 12:28	Finished	1.0 ppb, IWST-231228A
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	02/05/2024 12:38	Finished	5.0 ppb, IWST-231228A
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	02/05/2024 12:47	Finished	10 ppb, IWST-231228A
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	02/05/2024 12:57	Finished	15 ppb, IWST-231228A
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	02/05/2024 13:08	Finished	20 ppb, IWST-231228A
9	BLANK	1	1000	Unknown		02/12/2024 09:22	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		02/12/2024 09:38	Finished	CCV @5ppb, IWST-231228A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		02/12/2024 09:47	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		02/12/2024 09:57	Finished	CCB R240103B
13	MB-H2O,MBLK,1,	5	1000	Unknown		02/12/2024 10:06	Finished	MB R240103B
14	LCS-H2O,LCS,1,	6	1000	Unknown		02/12/2024 10:16	Finished	LCS @5ppb, IWST-231228B
15	N063001-021A,SAMP	1	1000	Unknown		02/12/2024 10:45	Finished	SAMP,10 mL
16	N063001-021AMS,MS	2	1000	Unknown		02/12/2024 10:57	Finished	MS (5ppb), IWST-231228B,10r
17	N063012-004A,SAMP	3	1000	Unknown		02/12/2024 11:09	Finished	SAMP,0.02>10 mL
18	N063012-004AMS,MS	4	1000	Unknown		02/12/2024 11:18	Finished	MS (5ppb), IWST-231228B,0.0
19	N063012-004AMSD,N	5	1000	Unknown		02/12/2024 11:28	Finished	MSD (5ppb), IWST-231228B,0
20	N063012-002A,SAMP	1	1000	Unknown		02/12/2024 11:50	Finished	SAMP,0.02>10 mL
21	N063012-002ADUP,D	2	1000	Unknown		02/12/2024 12:02	Finished	DUP,0.02>10 mL
22	N063012-002AMS,MS	3	1000	Unknown		02/12/2024 12:11	Finished	MS (5ppb), IWST-231228B,0.0
23	CCV-2,CCV,1,	4	1000	Unknown		02/12/2024 12:21	Finished	CCV @10ppb, IWST-231228A
24	CCB-2,CCB,1,	5	1000	Unknown		02/12/2024 12:30	Finished	CCB R240103B
25	N063012-006A,SAMP	6	1000	Unknown		02/12/2024 12:40	Finished	SAMP,10 mL
26	N063012-006AMS,MS	7	1000	Unknown		02/12/2024 12:49	Finished	MS (1ppb), IWST-231228B,10r
27	N063012-007A,SAMP	8	1000	Unknown		02/12/2024 12:58	Finished	SAMP,10 mL
28	N063012-007AMS,MS	9	1000	Unknown		02/12/2024 13:08	Finished	MS (1ppb), IWST-231228B,10r
29	N063012-009A,SAMP	10	1000	Unknown		02/12/2024 13:17	Finished	SAMP,10 mL
30	N063012-009AMS,MS	11	1000	Unknown		02/12/2024 13:27	Finished	MS (1ppb), IWST-231228B,10r
31	N063012-001A,SAMP	12	1000	Unknown		02/12/2024 13:36	Finished	SAMP,0.1>10 mL
32	N063012-001AMS,MS	13	1000	Unknown		02/12/2024 13:46	Finished	MS (5ppb), IWST-231228B,0.1
33	N063001-020A,SAMP	14	1000	Unknown		02/12/2024 13:55	Finished	SAMP,10 mL
34	N063001-020AMS,MS	15	1000	Unknown		02/12/2024 14:05	Finished	MS (1ppb), IWST-231228B,10r
35	CCV-3,CCV,1,	16	1000	Unknown		02/12/2024 14:14	Finished	CCV @5ppb, IWST-231228A
36	CCB-3,CCB,1,	17	1000	Unknown		02/12/2024 14:24	Finished	CCB R240103B
37	N063010-001A,SAMP	18	1000	Unknown		02/12/2024 14:33	Finished	SAMP,10 mL
38	N063010-001AMS,MS	19	1000	Unknown		02/12/2024 14:43	Finished	MS (1ppb), IWST-231228B,10r
39	N063010-002A,SAMP	20	1000	Unknown		02/12/2024 14:52	Finished	SAMP,10 mL
40	N063010-002AMS,MS	21	1000	Unknown		02/12/2024 15:01	Finished	MS (1ppb), IWST-231228B,10r
41	N063010-003A,SAMP	22	1000	Unknown		02/12/2024 15:11	Finished	SAMP,10 mL
42	N063010-003AMS,MS	23	1000	Unknown		02/12/2024 15:20	Finished	MS (1ppb), IWST-231228B,10r
43	N063012-003A,SAMP	24	1000	Unknown		02/12/2024 15:30	Finished	SAMP,0.02>10 mL
44	N063012-003AMS,MS	25	1000	Unknown		02/12/2024 15:39	Finished	MS (5ppb), IWST-231228B,0.0
45	N062966-003A,SAMP	26	1000	Unknown		02/12/2024 15:49	Finished	SAMP,2>10 mL
46	N062966-003AMS,MS	27	1000	Unknown		02/12/2024 15:58	Finished	MS (1ppb), IWST-231228B,2>1
47	CCV-4,CCV1,1,	28	1000	Unknown		02/12/2024 16:08	Finished	CCV @10ppb, IWST-231228A
48	CCB-4,CCB,1,	29	1000	Unknown		02/12/2024 16:17	Finished	CCB R240103B
49	N063001-003A,SAMP	30	1000	Unknown		02/12/2024 16:26	Finished	SAMP,2>10 mL
50	N063001-003AMS,MS	31	1000	Unknown		02/12/2024 16:36	Finished	MS (1ppb), IWST-231228B,2>1
51	N063001-022A,SAMP	32	1000	Unknown		02/12/2024 16:45	Finished	SAMP,10 mL
52	N063001-022AMS,MS	33	1000	Unknown		02/12/2024 16:55	Finished	MS (1ppb), IWST-231228B,10r
53	N063012-005A,SAMP	34	1000	Unknown		02/12/2024 17:04	Finished	SAMP,10 mL
54	N063012-005AMS,MS	35	1000	Unknown		02/12/2024 17:14	Finished	MS (1ppb), IWST-231228B,10r
55	N063012-008A,SAMP	36	1000	Unknown		02/12/2024 17:23	Finished	SAMP,10 mL
56	N063012-008AMS,MS	37	1000	Unknown		02/12/2024 17:33	Finished	MS (1ppb), IWST-231228B,10r
57	N063012-010A,SAMP	38	1000	Unknown		02/12/2024 17:42	Finished	SAMP,10 mL
58	N063012-010AMS,MS	39	1000	Unknown		02/12/2024 17:52	Finished	MS (1ppb), IWST-231228B,10r
59	CCV-5,CCV,1,	40	1000	Unknown		02/12/2024 18:01	Finished	CCV @5ppb, IWST-231228A
60	CCB-5,CCB,1,	41	1000	Unknown		02/12/2024 18:14	Finished	CCB R240103B

61	N063012-011A,SAMP	42	1000	Unknown	02/12/2024 18:24	Finished	SAMP,10 mL
62	N063012-011AMS,MS	43	1000	Unknown	02/12/2024 18:33	Finished	MS (1ppb), IWST-231228B,10r
63	N063001-021AMS,MS	44	1000	Unknown	02/12/2024 18:43	Finished	MS (1ppb), IWST-231228B,10r
64	CCV-6,CCV1,1,	45	1000	Unknown	02/12/2024 18:52	Finished	CCV @10ppb, IWST-231228A
65	CCB-6,CCB,1,	46	1000	Unknown	02/12/2024 19:02	Finished	CCB R240103B
66	BLANK	47	1000	Unknown	02/12/2024 19:14	Finished	BLANK
67	SHUTDOWN	48	1000	Unknown	02/12/2024 19:23	Finished	
68	Eluent: R240212A	49	1000	Unknown	n.a.	Finished	
69	PCR: R240212B	50	1000	Unknown	n.a.	Finished	

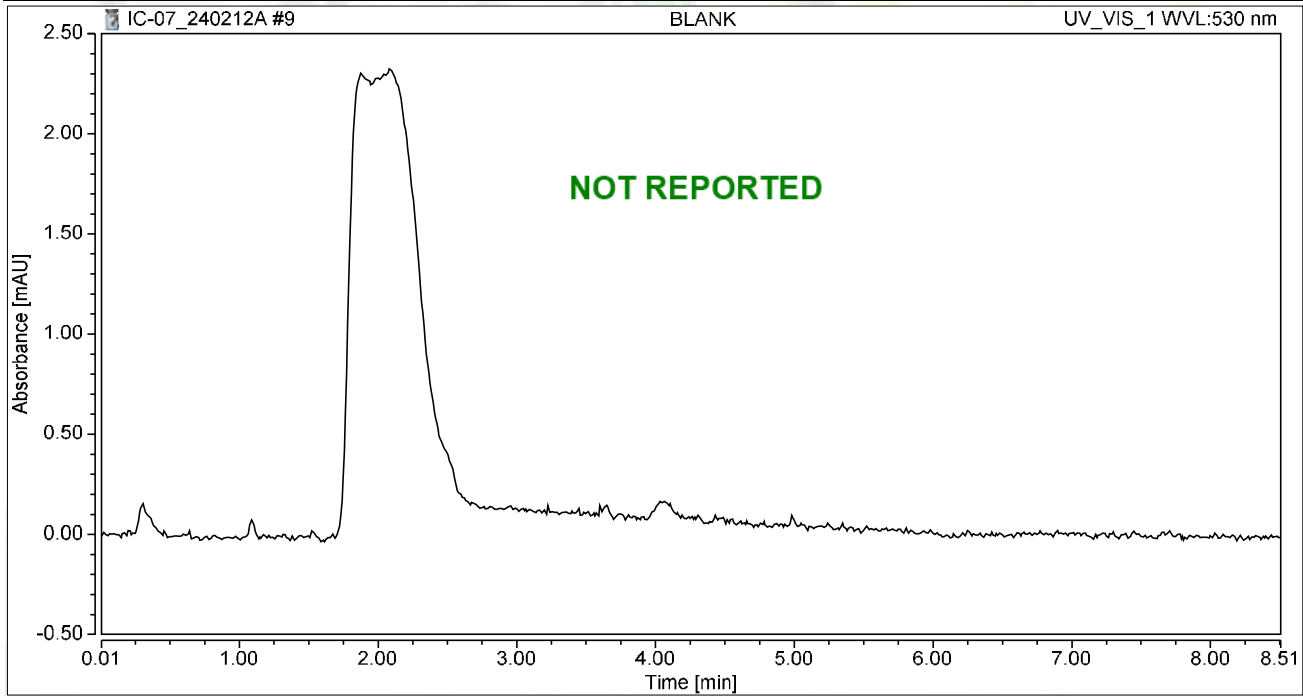


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 09:22	Sample Weight:	1.0000

Chromatogram



Integration Results

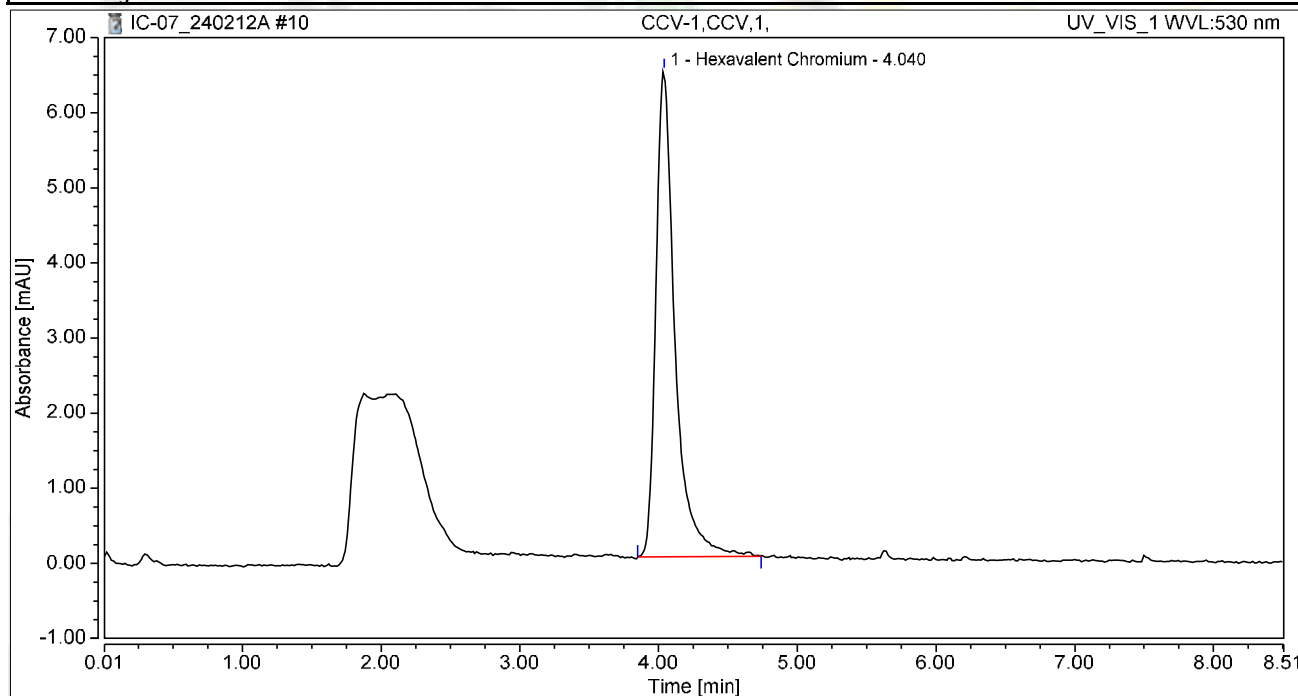
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 09:38	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.035	6.476	100.00	100.00	4.8109
Total:			1.035	6.476	100.00	100.00	

Reviewed by:

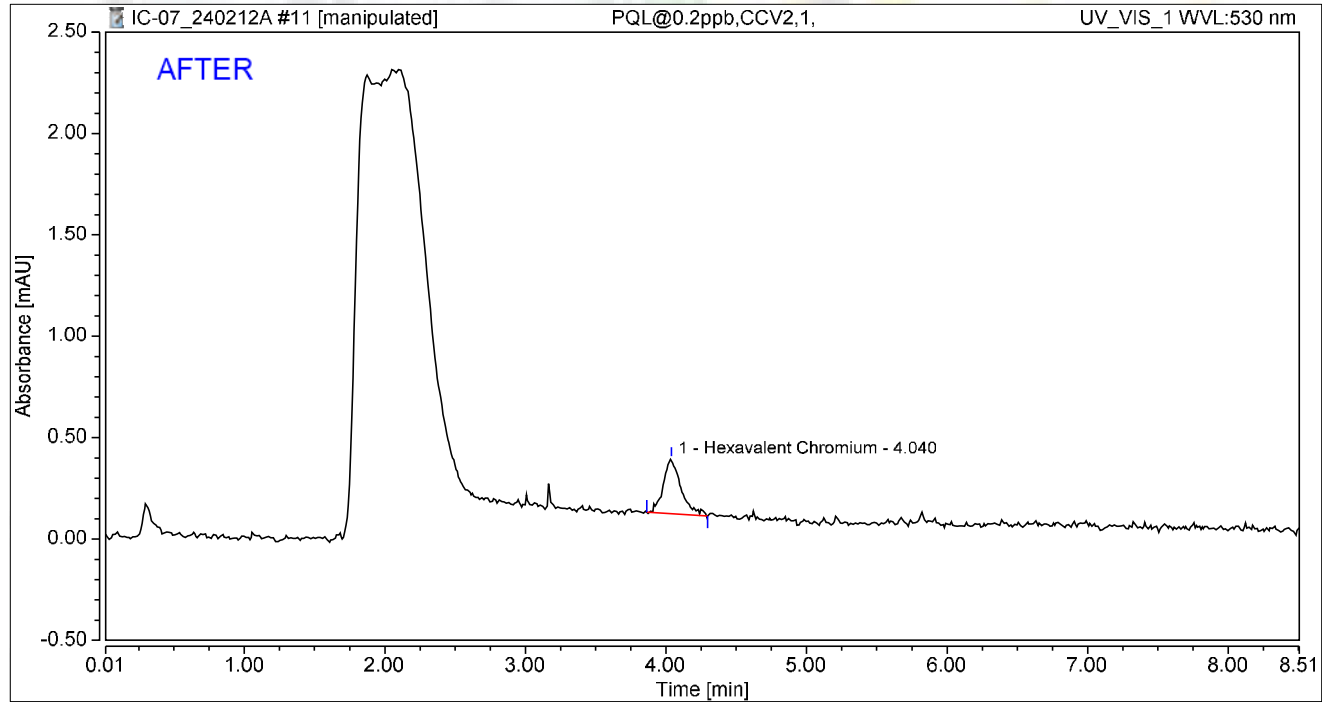
jrb

2/20/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Feb/24 09:47	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.039	0.268	100.00	100.00	0.1822
Total:			0.039	0.268	100.00	100.00	

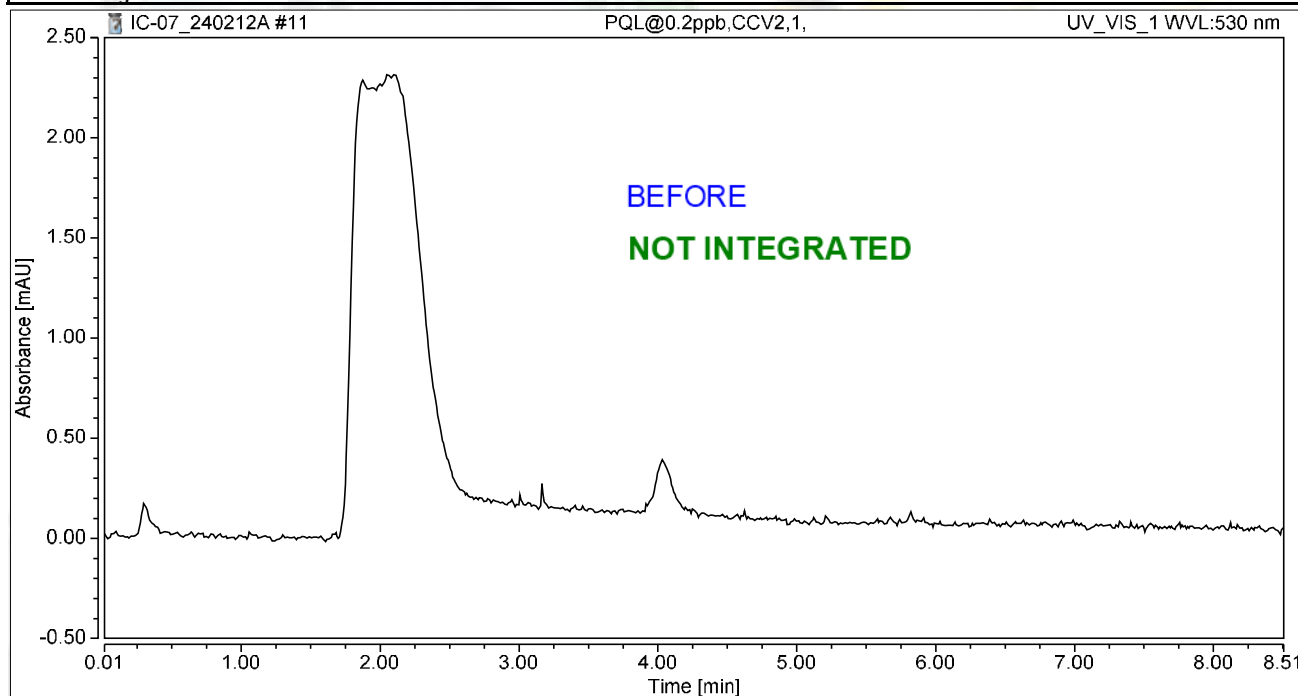
Reviewed by:

JRB 2/20/2024

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Feb/24 09:47	Sample Weight: 1.0000

Chromatogram



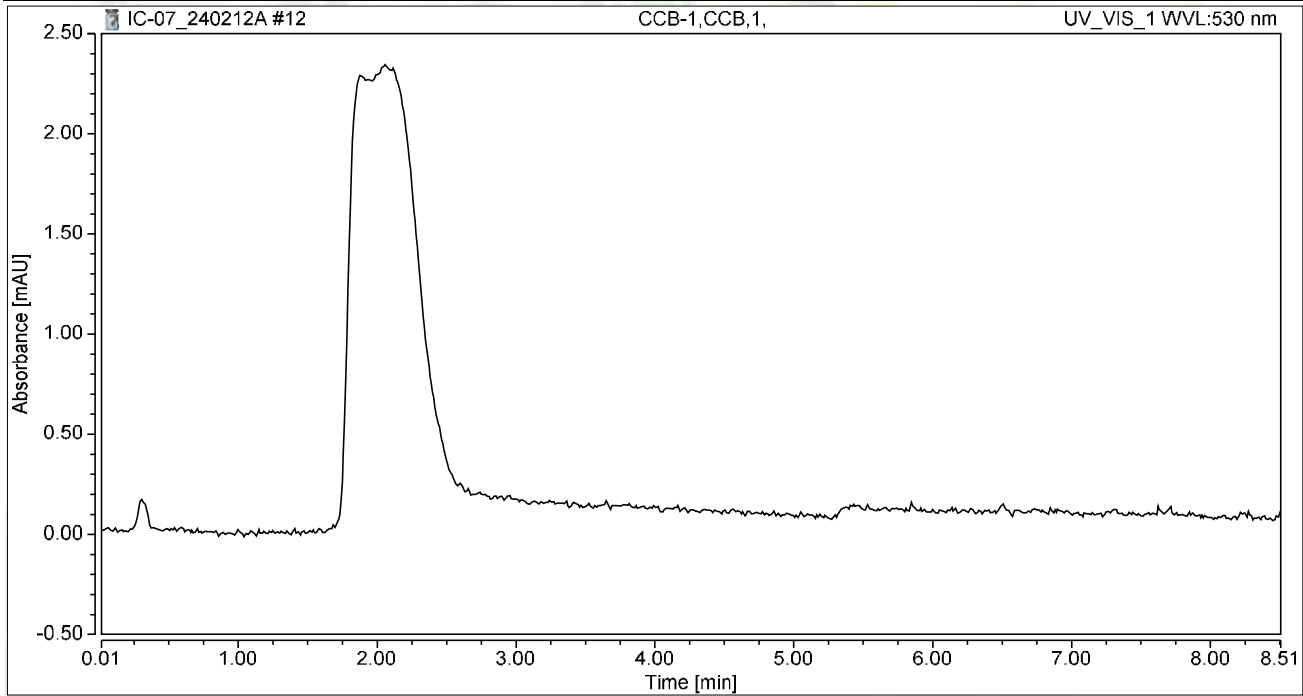
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 09:57	Sample Weight:	1.0000

Chromatogram



Integration Results

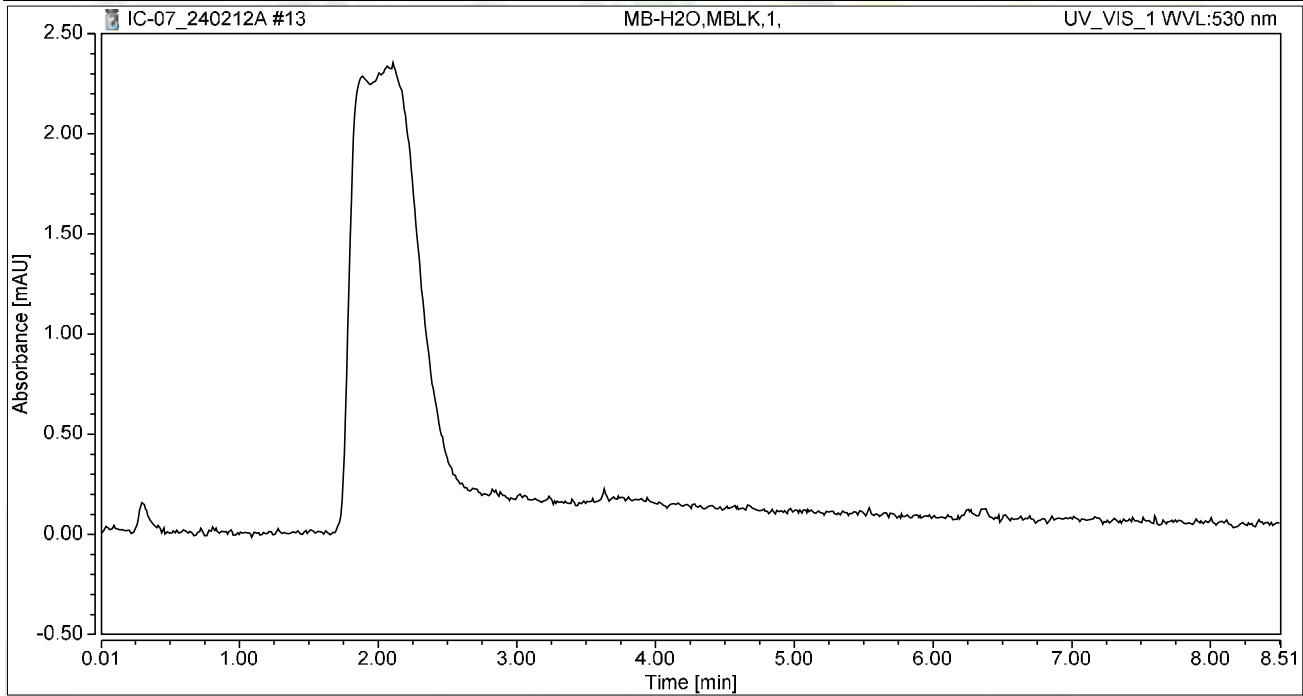
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 10:06	Sample Weight:	1.0000

Chromatogram



Integration Results

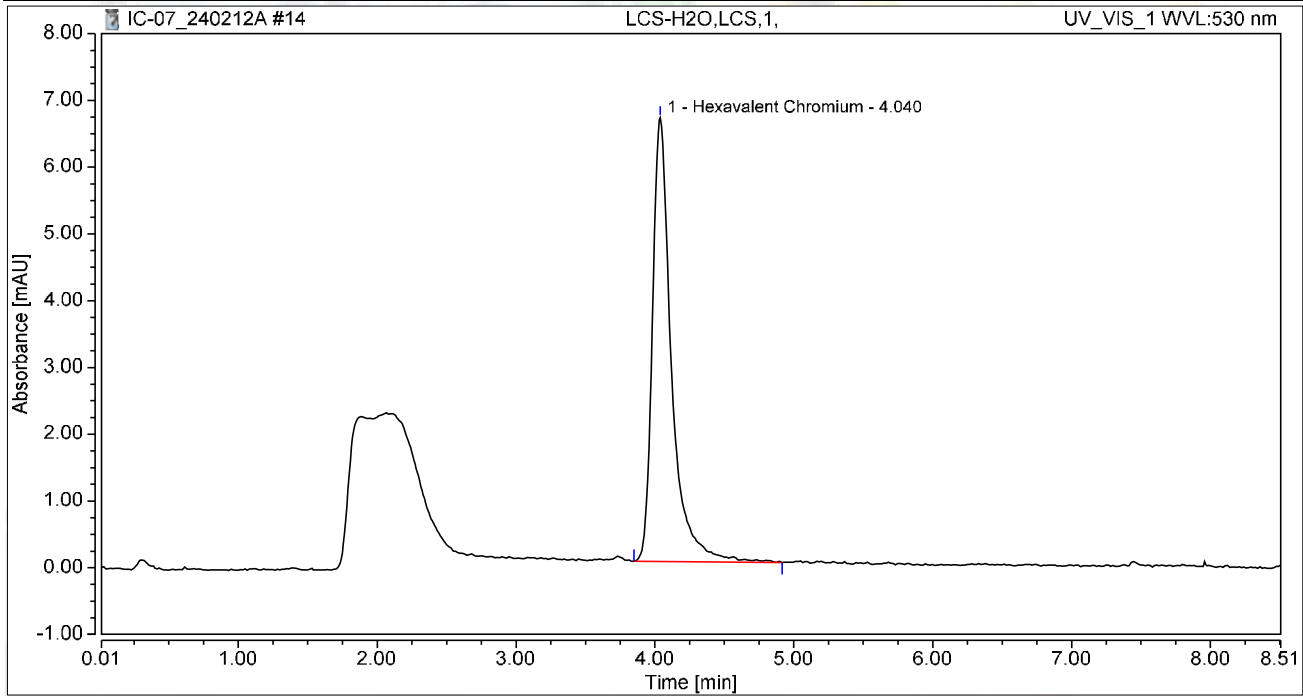
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 10:16	Sample Weight:	1.0000

Chromatogram



Integration Results

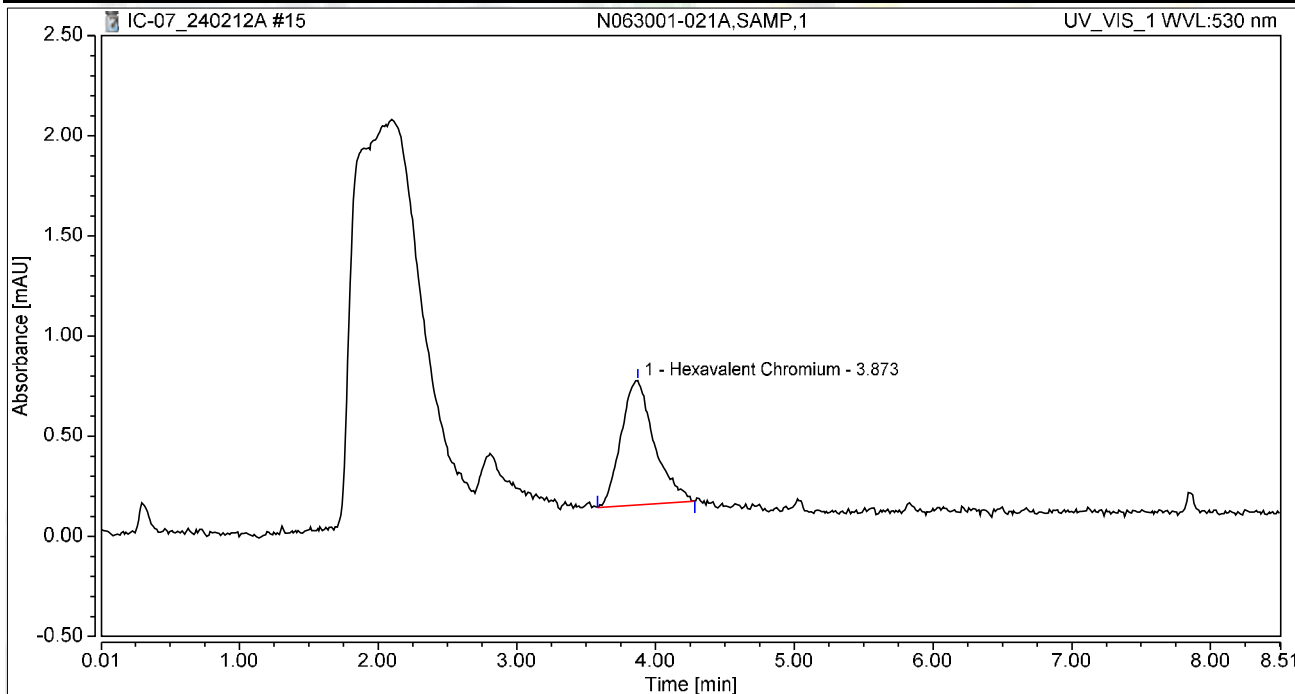
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.057	6.645	100.00	100.00	4.9152
Total:			1.057	6.645	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 10:45	Sample Weight:	1.0000

Chromatogram



Integration Results

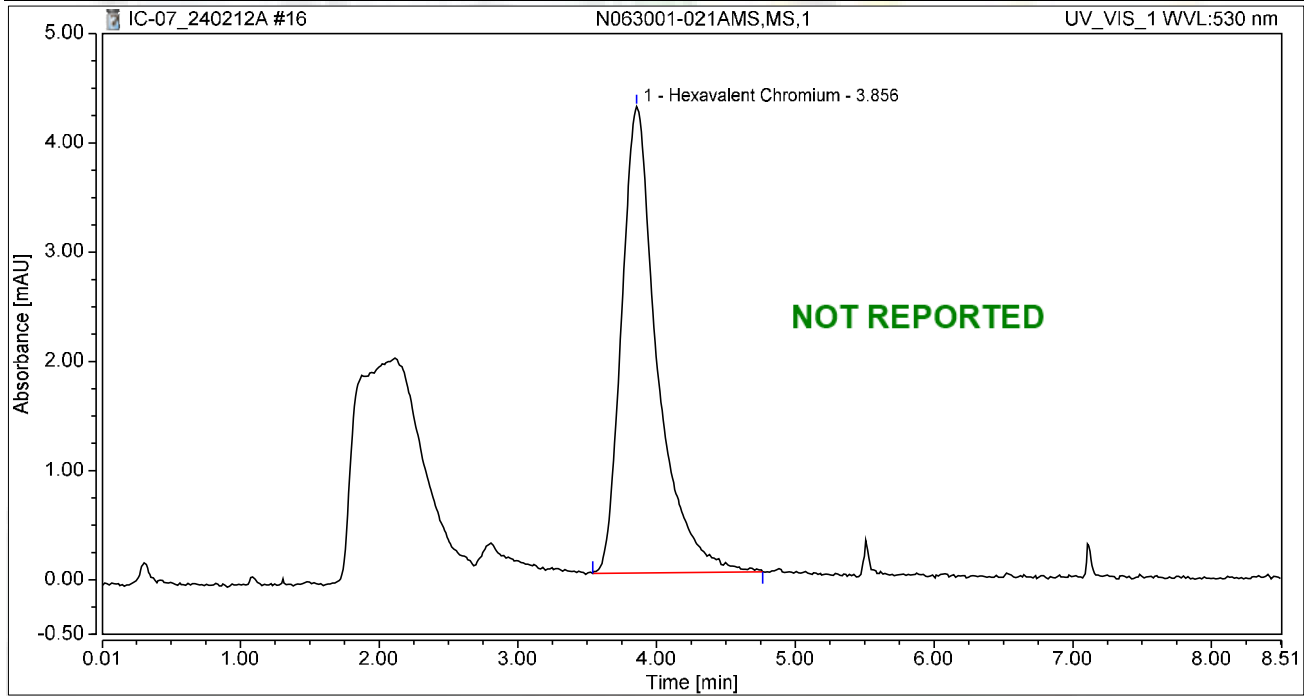
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.173	0.621	100.00	100.00	0.8062
Total:			0.173	0.621	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

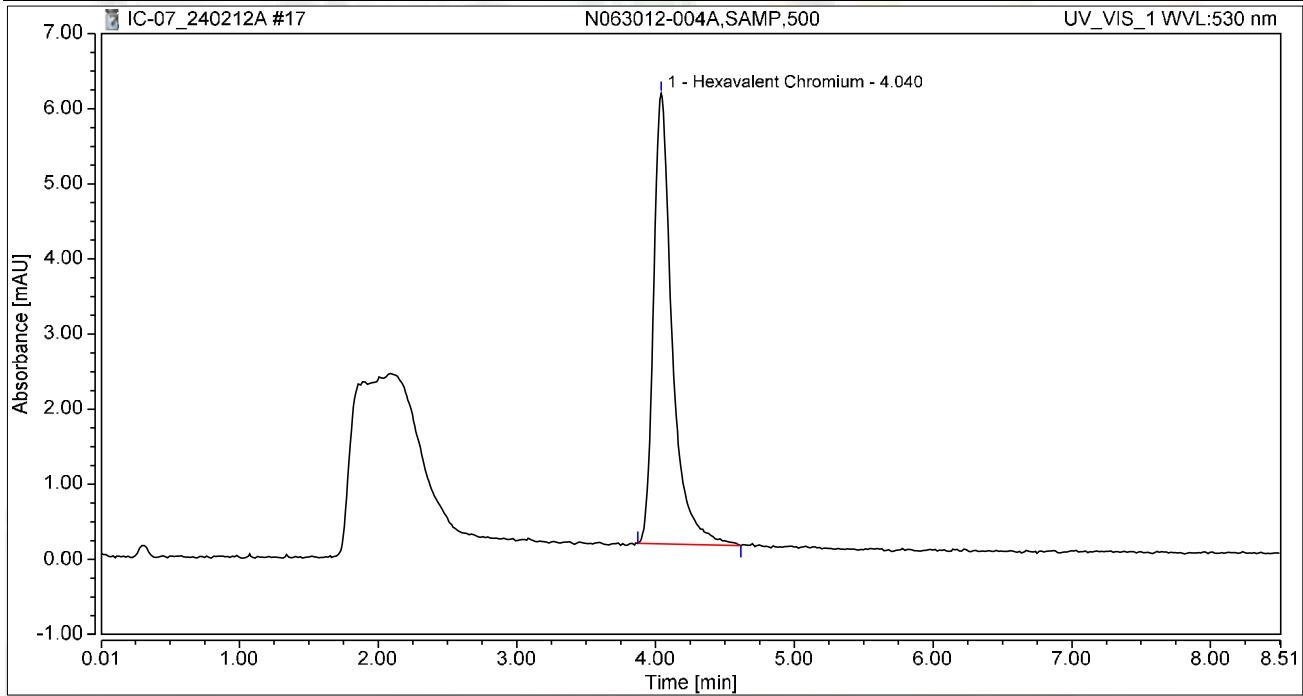
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	1.270	4.267	100.00	100.00	5.9032
Total:			1.270	4.267	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-004A,SAMP,500	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 11:09	Sample Weight:	1.0000

Chromatogram



Integration Results

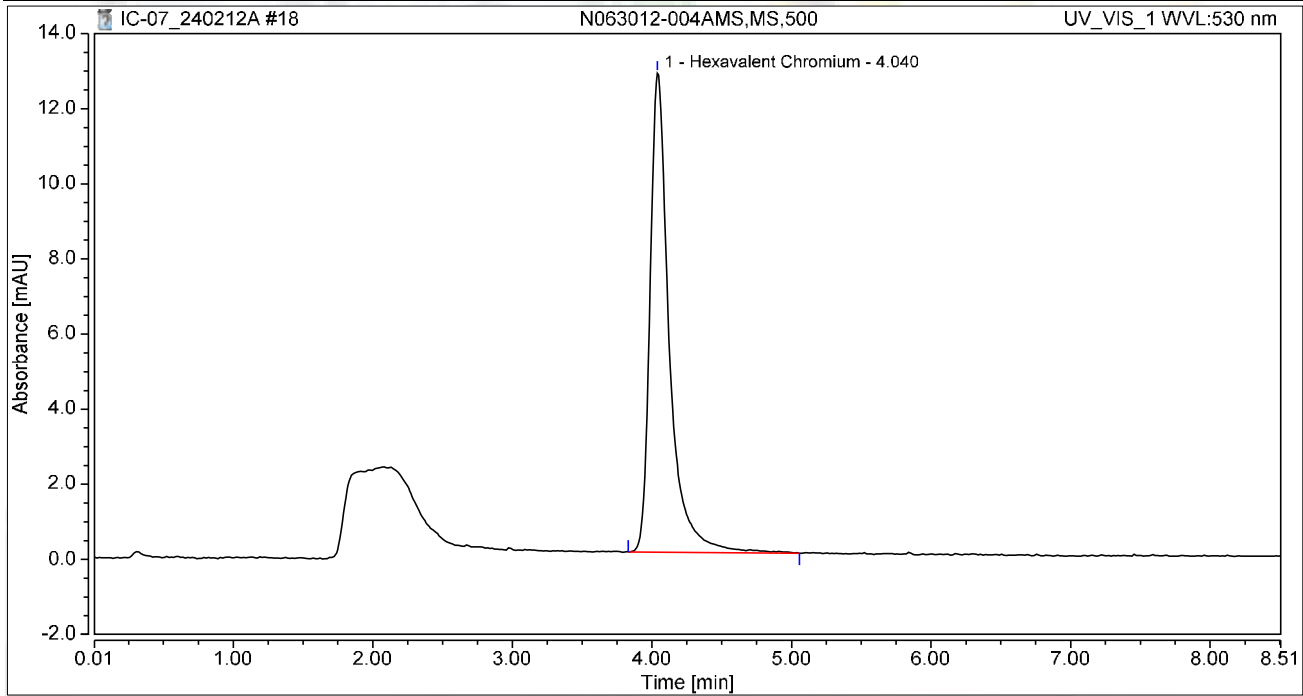
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.935	5.999	100.00	100.00	4.3471
Total:			0.935	5.999	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-004AMS,MS,500	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 11:18	Sample Weight:	1.0000

Chromatogram



Integration Results

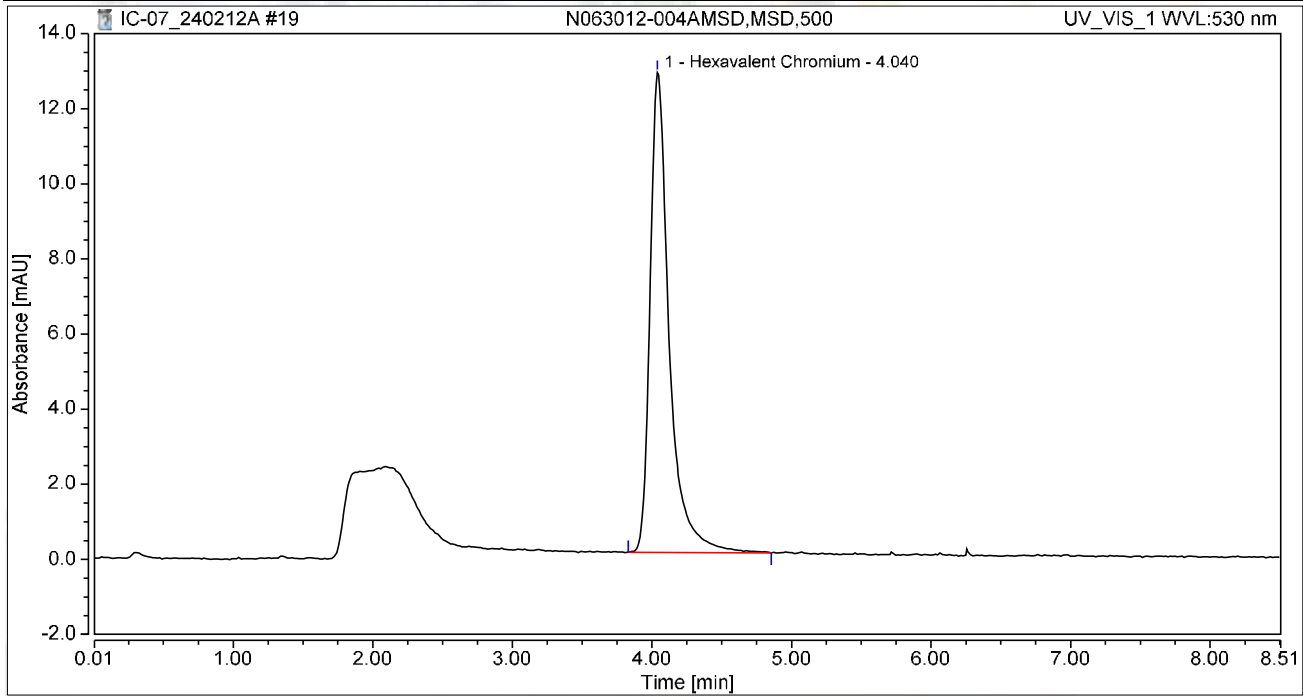
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.047	12.763	100.00	100.00	9.5168
Total:			2.047	12.763	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-004AMSD,MSD,500	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 11:28	Sample Weight:	1.0000

Chromatogram



Integration Results

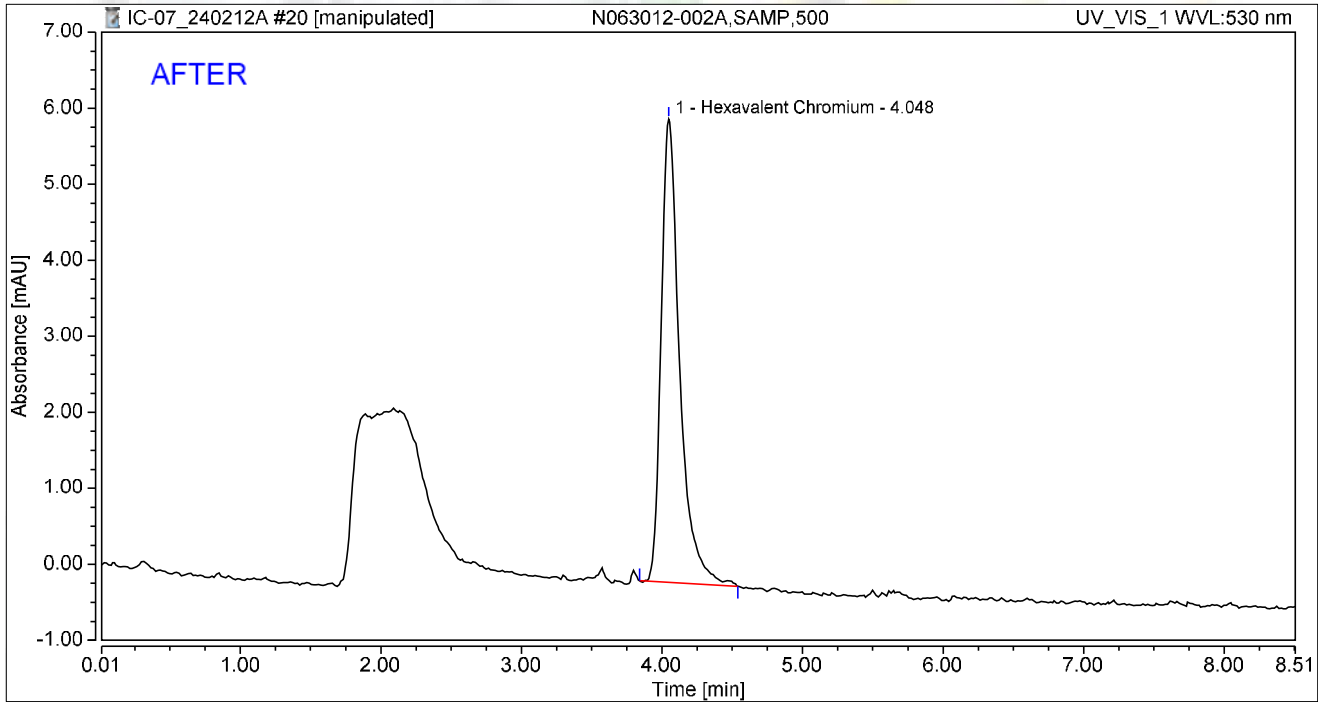
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.032	12.778	100.00	100.00	9.4478
Total:			2.032	12.778	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-002A,SAMP,500	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 11:50	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	0.929	6.092	100.00	100.00	4.3202
Total:			0.929	6.092	100.00	100.00	

Reviewed by:

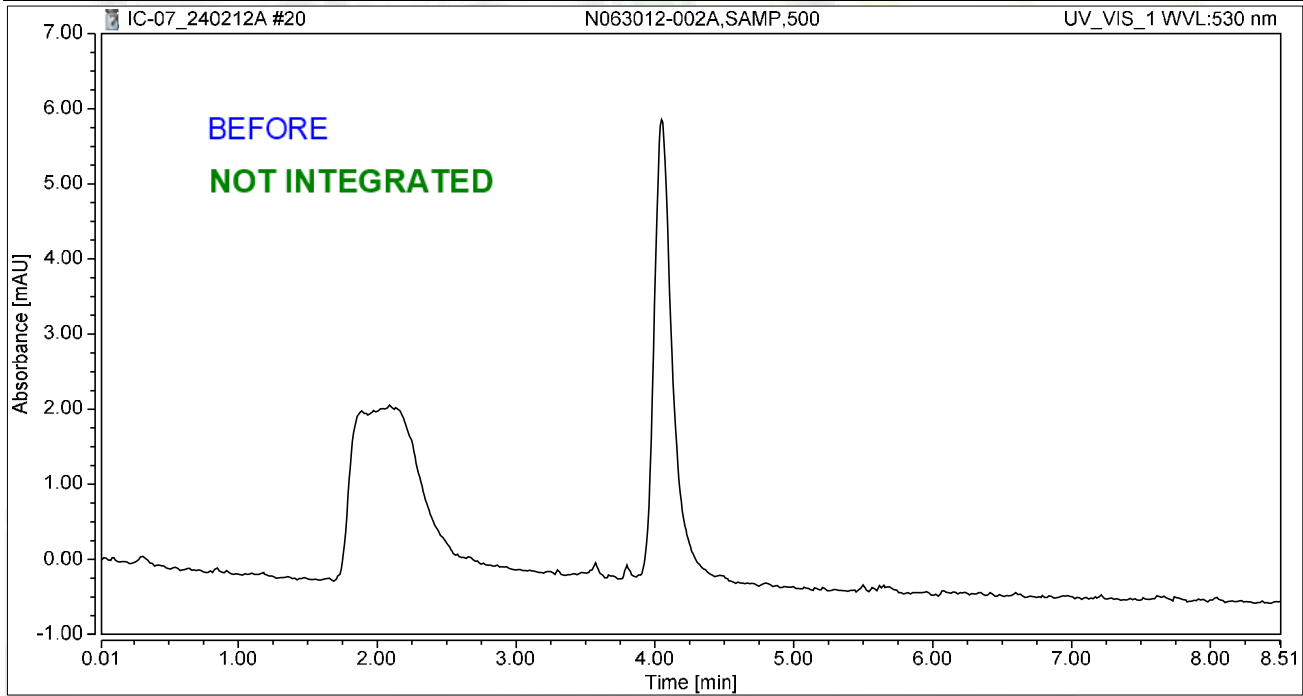
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063012-002A,SAMP,500	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 11:50	Sample Weight:	1.0000

Chromatogram



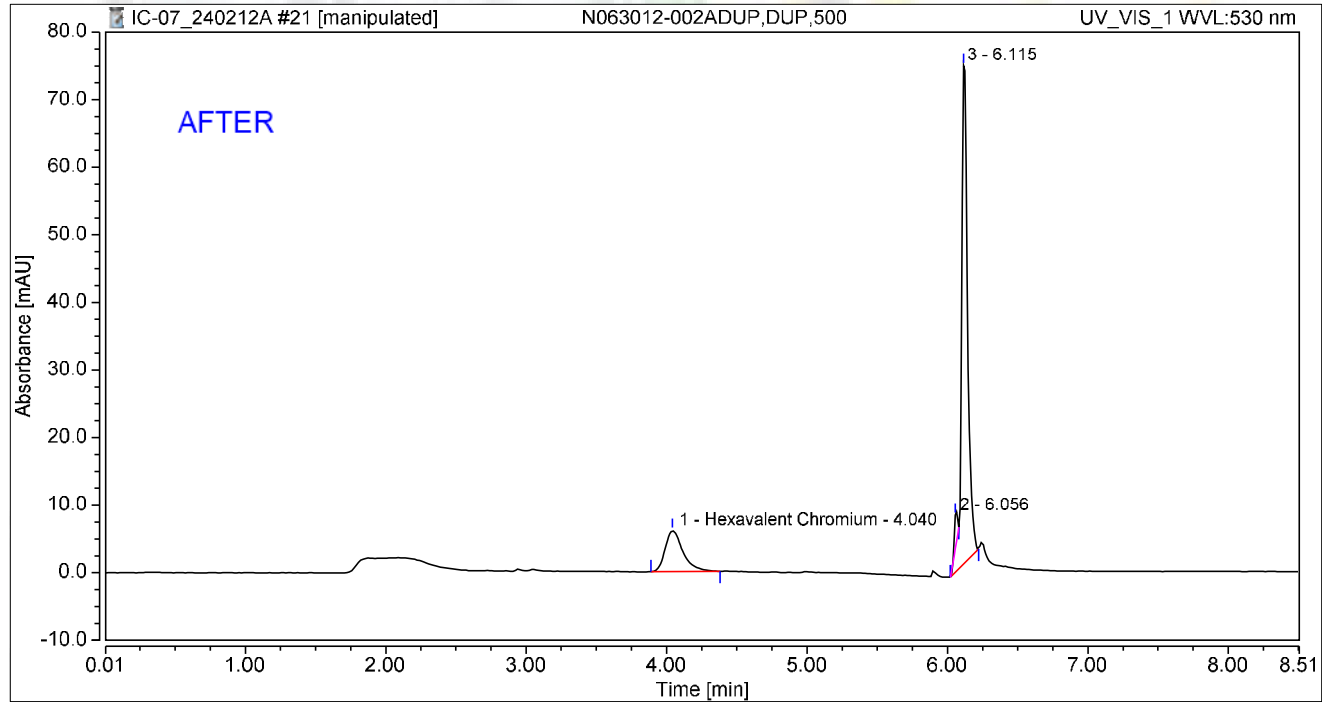
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details			
Injection Name:	N063012-002ADUP,DUP,500	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.895	6.059	19.10	7.15	4.1600
2		6.056	0.116	4.914	2.49	5.80	n.a.
3		6.115	3.675	73.747	78.42	87.05	n.a.
Total:			4.686	84.720	100.00	100.00	

Reviewed by:

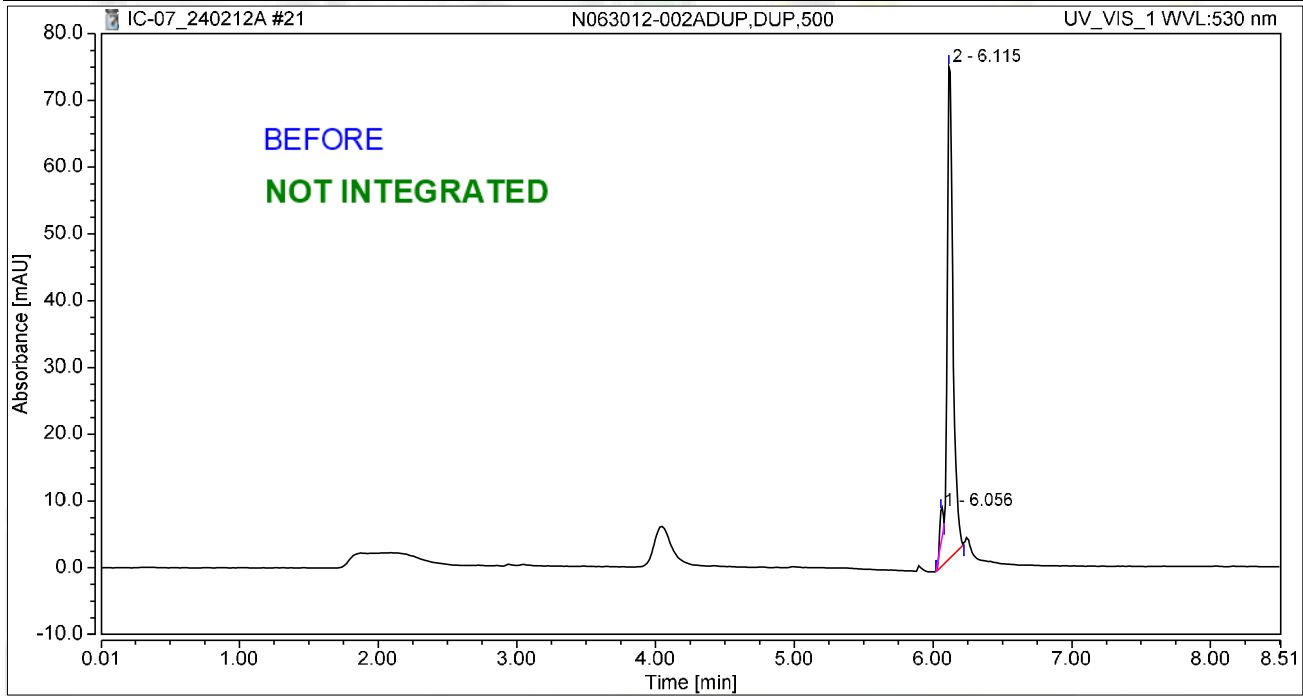
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063012-002ADUP,DUP,500	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

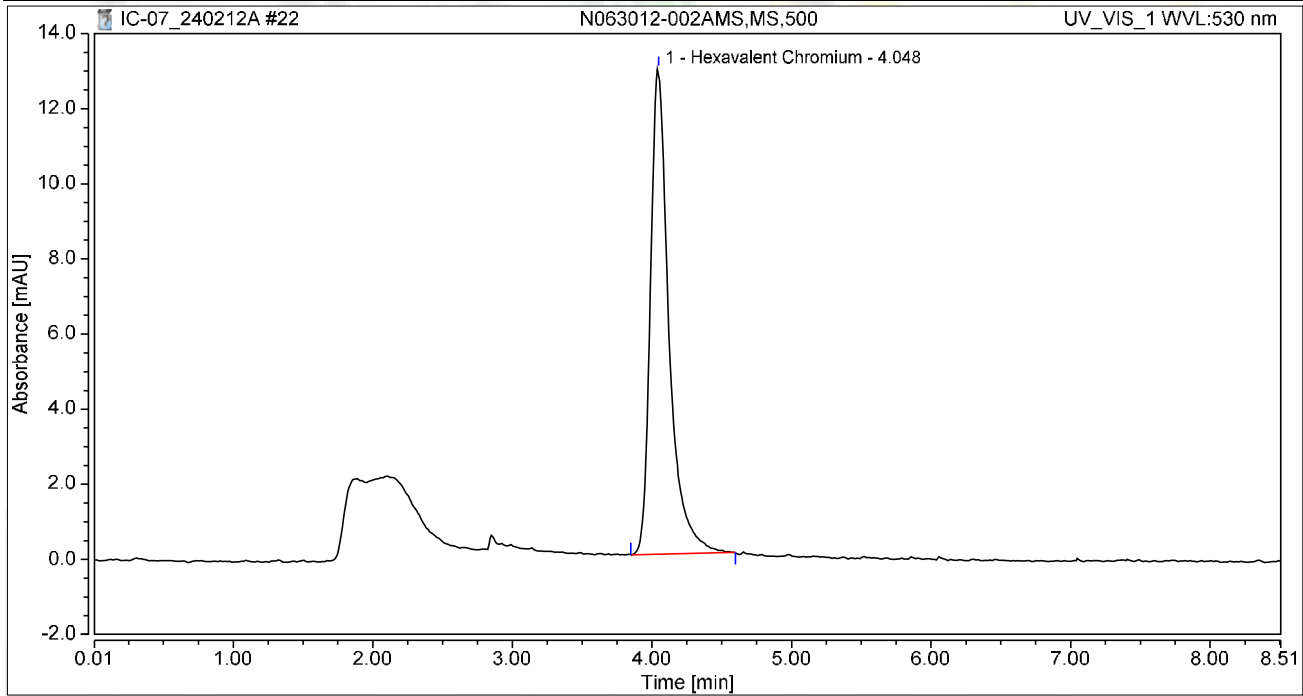
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.056	0.116	4.914	3.07	6.25	n.a.
2		6.115	3.675	73.747	96.93	93.75	n.a.
Total:			3.791	78.661	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-002AMS,MS,500	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

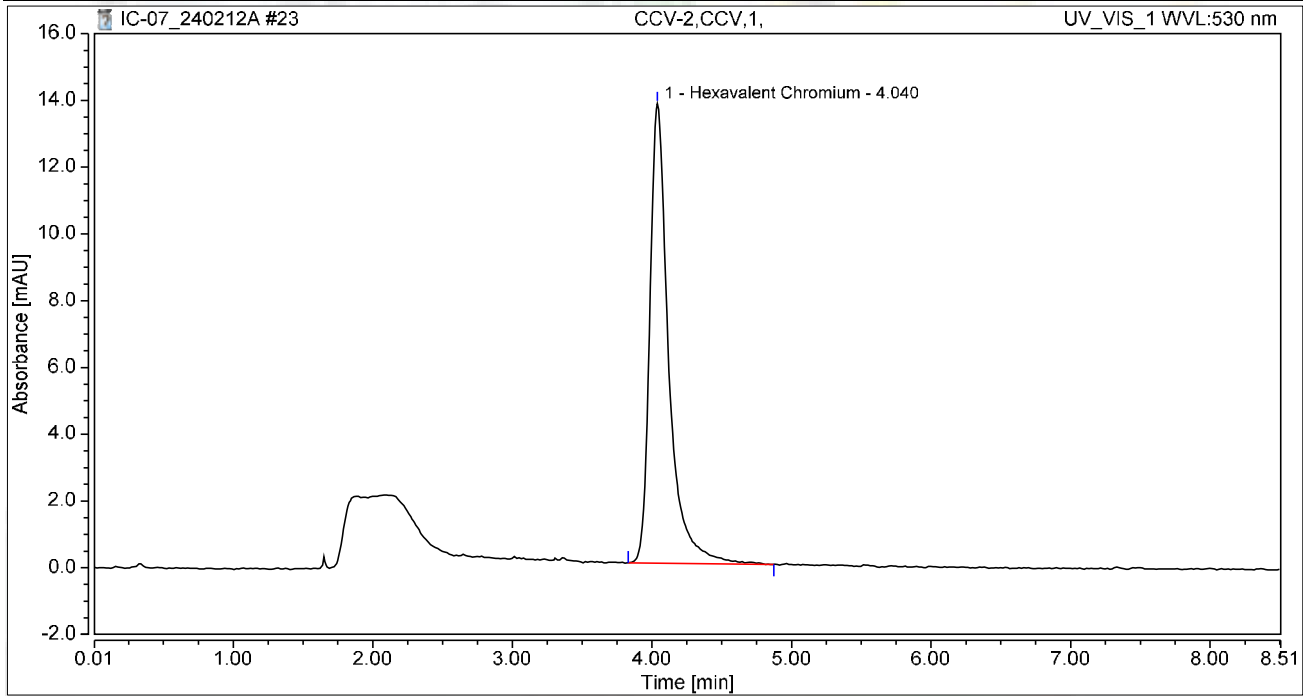
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	1.992	12.929	100.00	100.00	9.2586
Total:			1.992	12.929	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:21	Sample Weight:	1.0000

Chromatogram



Integration Results

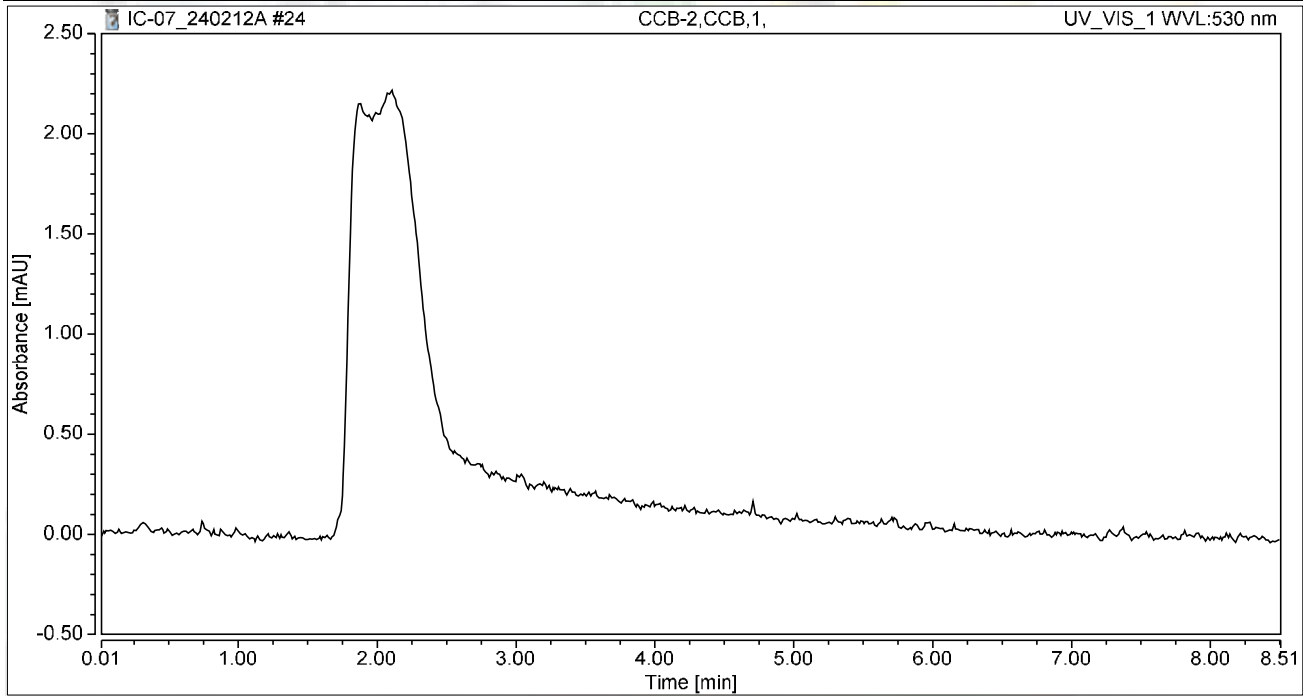
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.162	13.765	100.00	100.00	10.0529
Total:			2.162	13.765	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:30	Sample Weight:	1.0000

Chromatogram



Integration Results

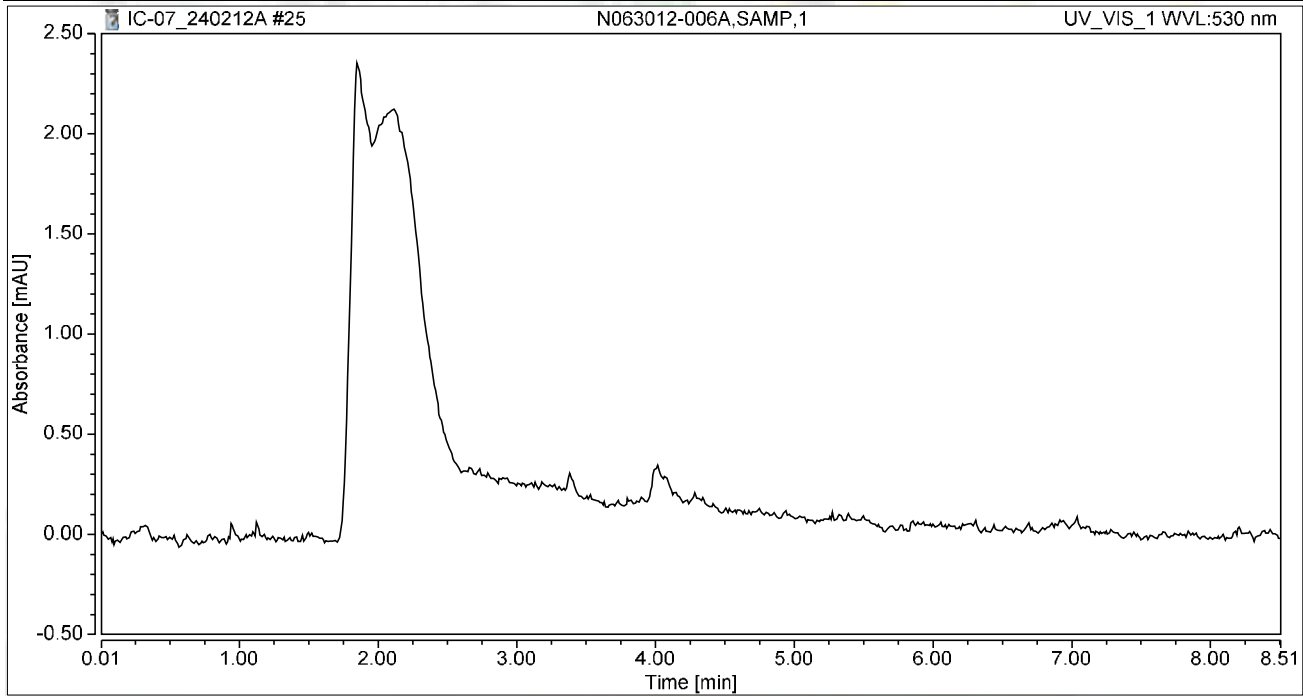
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:40	Sample Weight:	1.0000

Chromatogram



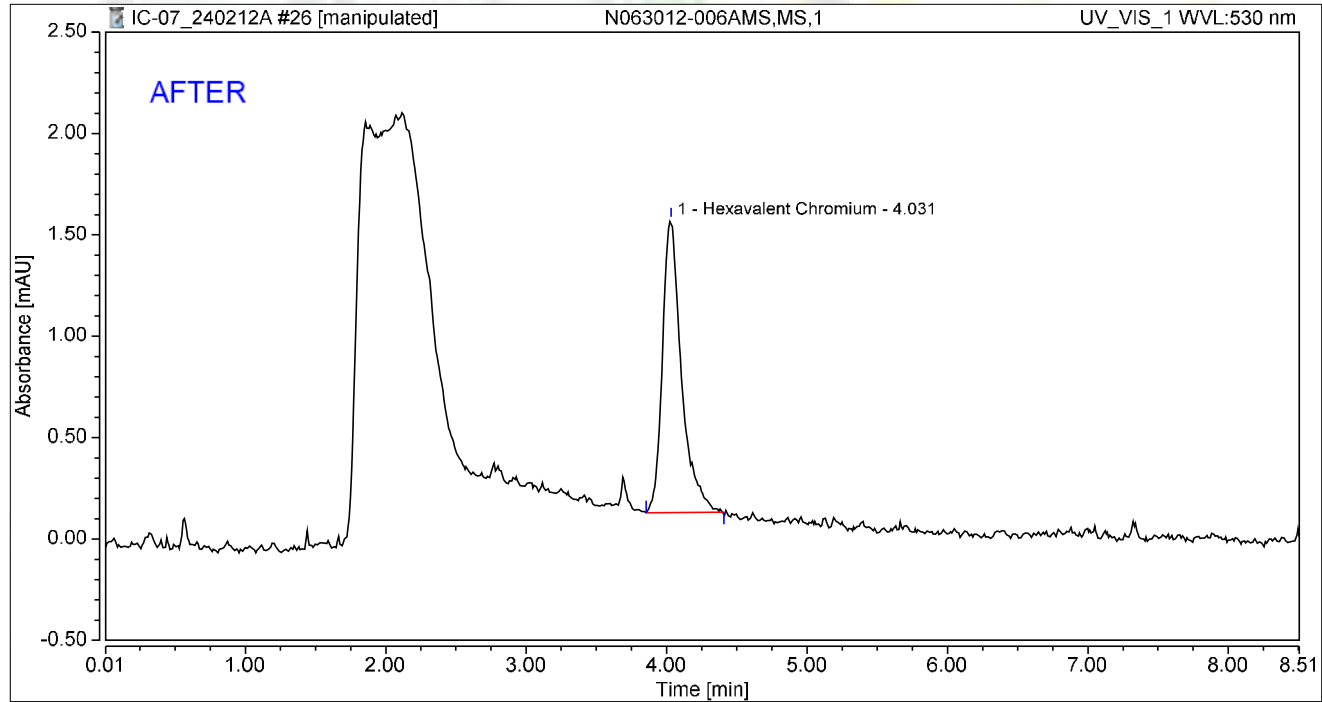
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063012-006AMS,MS,1	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Feb/24 12:49	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.227	1.443	100.00	100.00	1.0554
Total:			0.227	1.443	100.00	100.00	

Reviewed by:

jrb

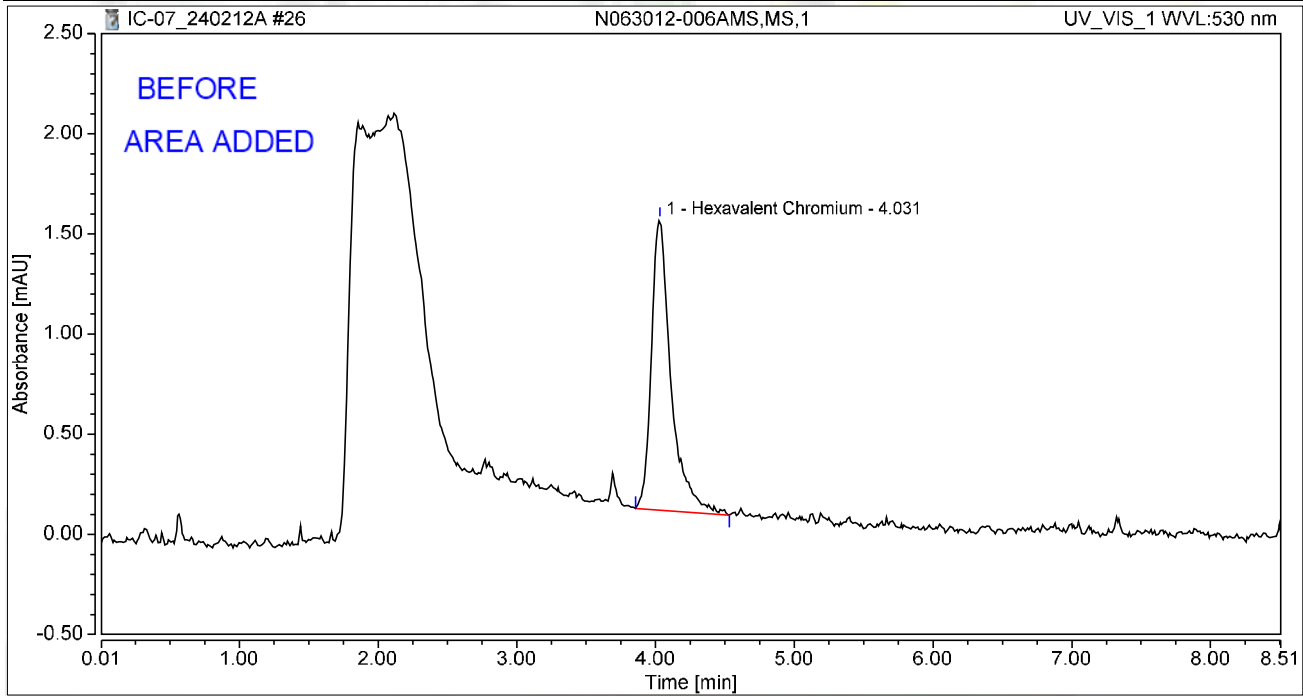
2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063012-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:49	Sample Weight:	1.0000

Chromatogram



Integration Results

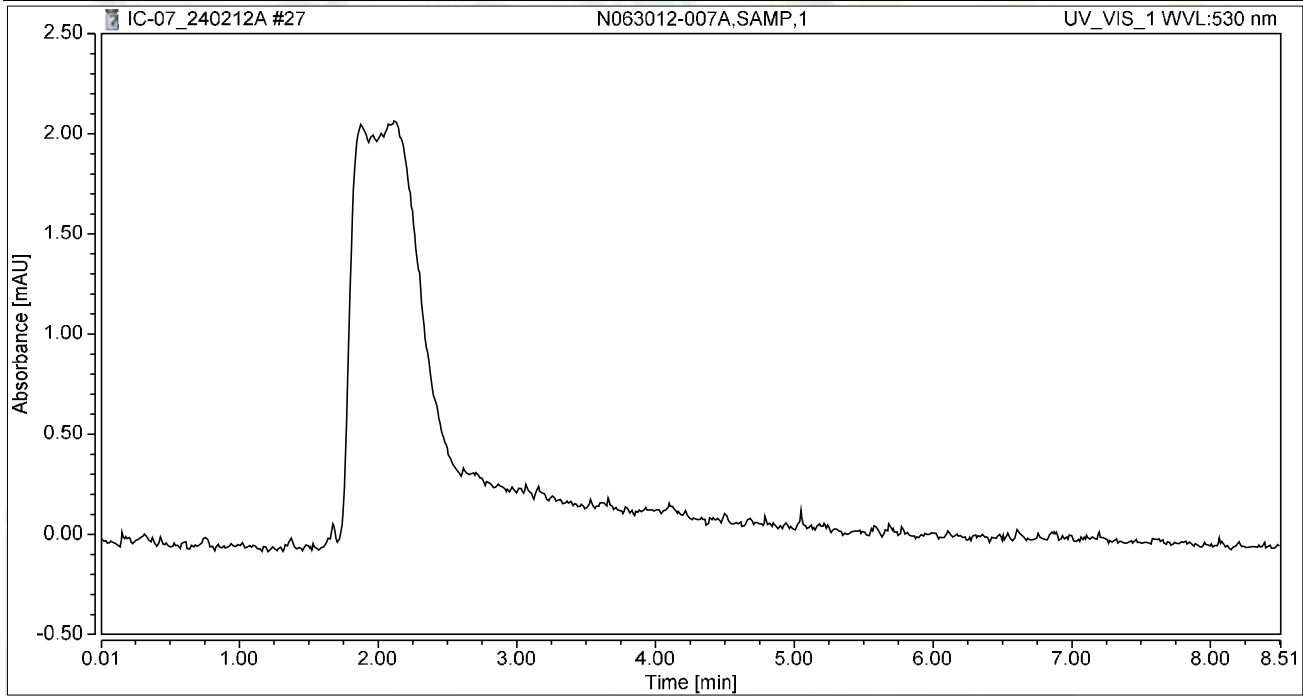
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.238	1.453	100.00	100.00	1.1081
Total:			0.238	1.453	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 12:58	Sample Weight:	1.0000

Chromatogram



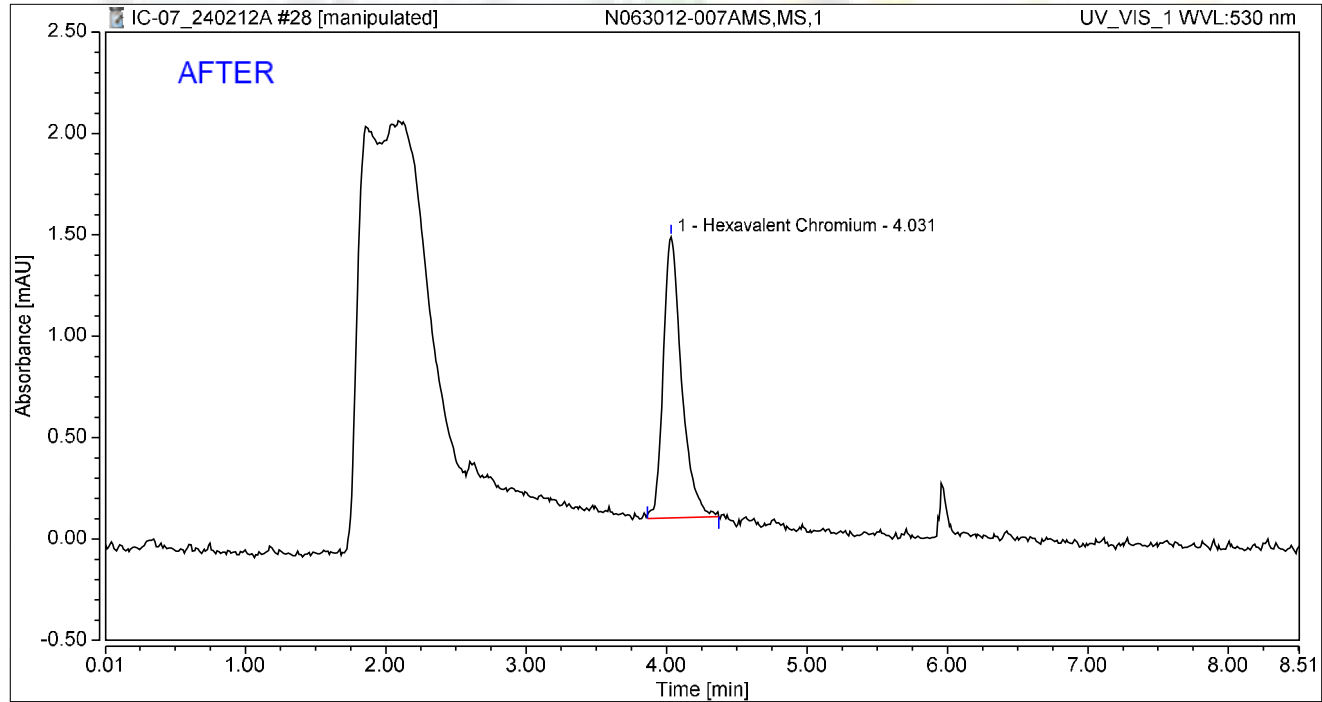
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details			
Injection Name:	N063012-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:08	Sample Weight:	1.0000

Chromatogram



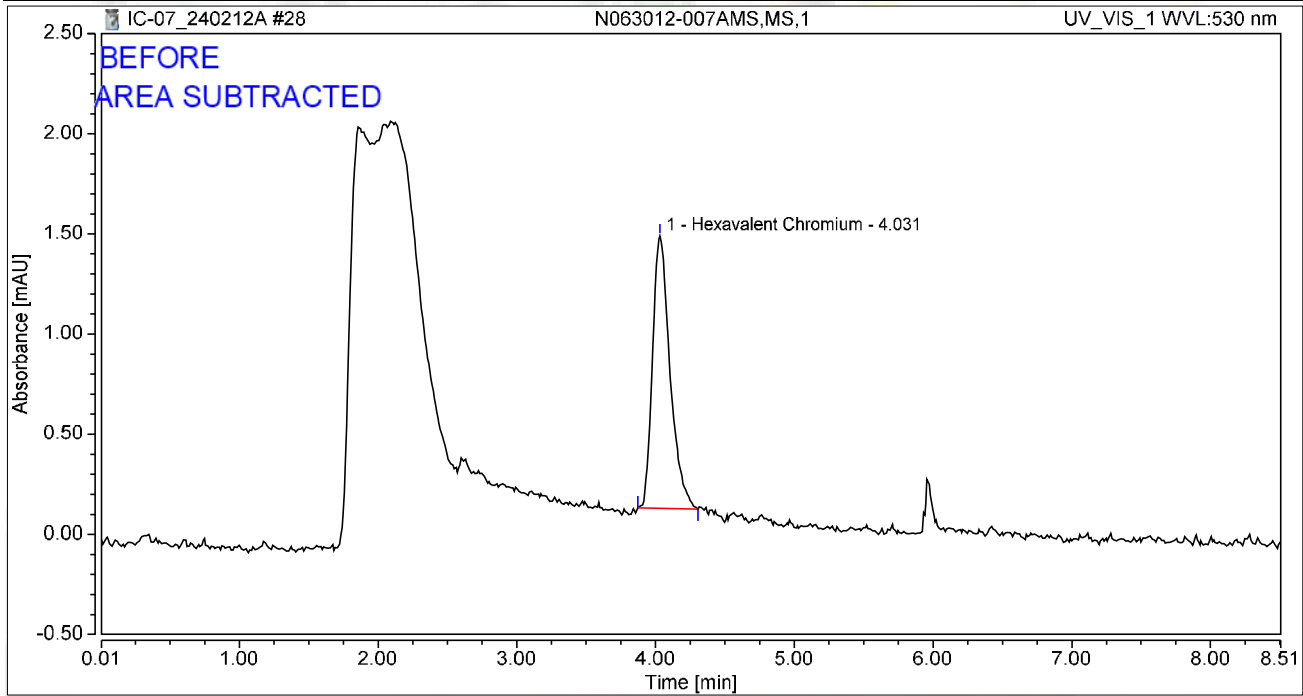
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.211	1.387	100.00	100.00	0.9791
Total:			0.211	1.387	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:08	Sample Weight:	1.0000

Chromatogram



Integration Results

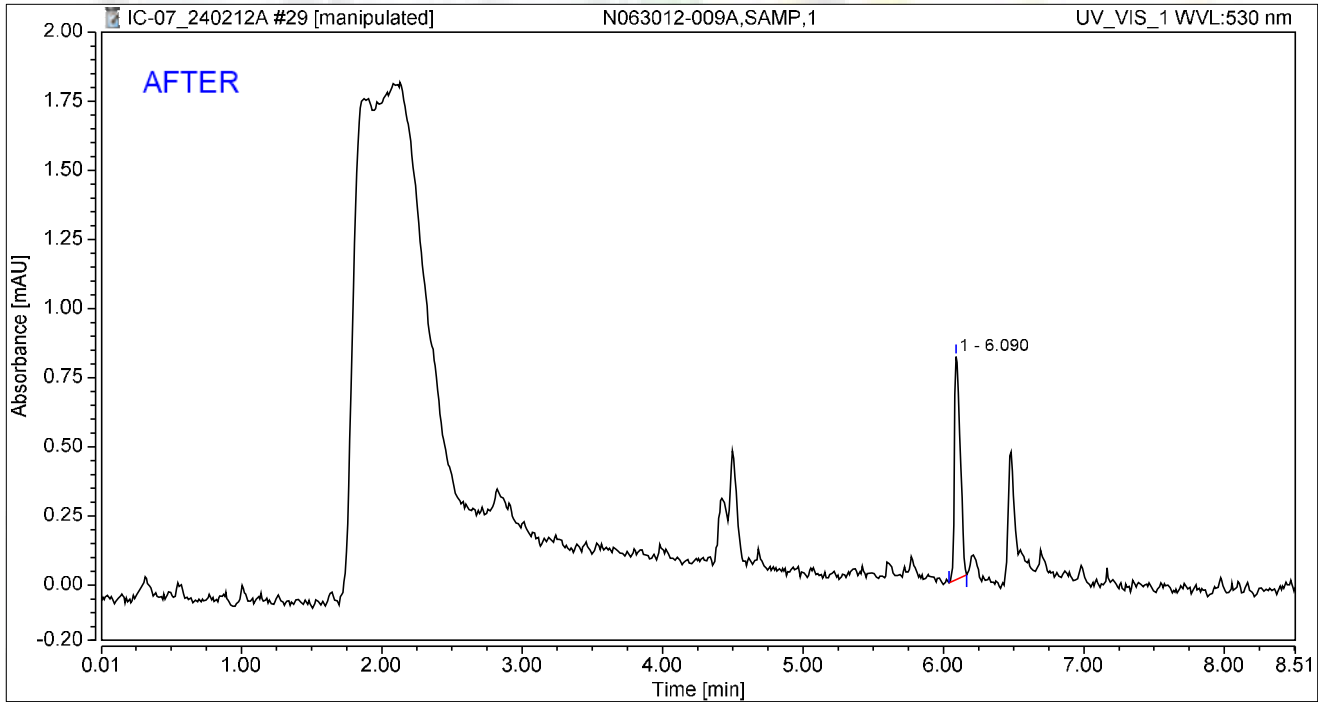
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.198	1.361	100.00	100.00	0.9220
Total:			0.198	1.361	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:17	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.090	0.039	0.808	100.00	100.00	n.a.
Total:			0.039	0.808	100.00	100.00	

Reviewed by:

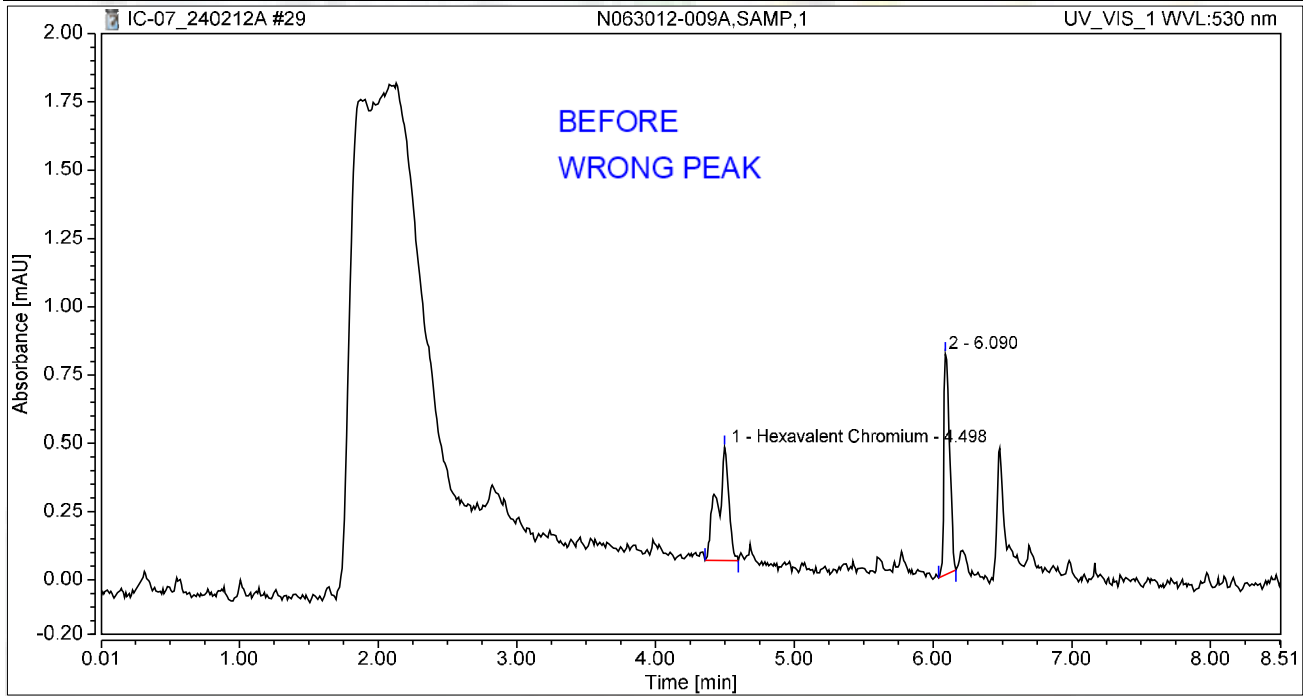
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063012-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:17	Sample Weight:	1.0000

Chromatogram



Integration Results

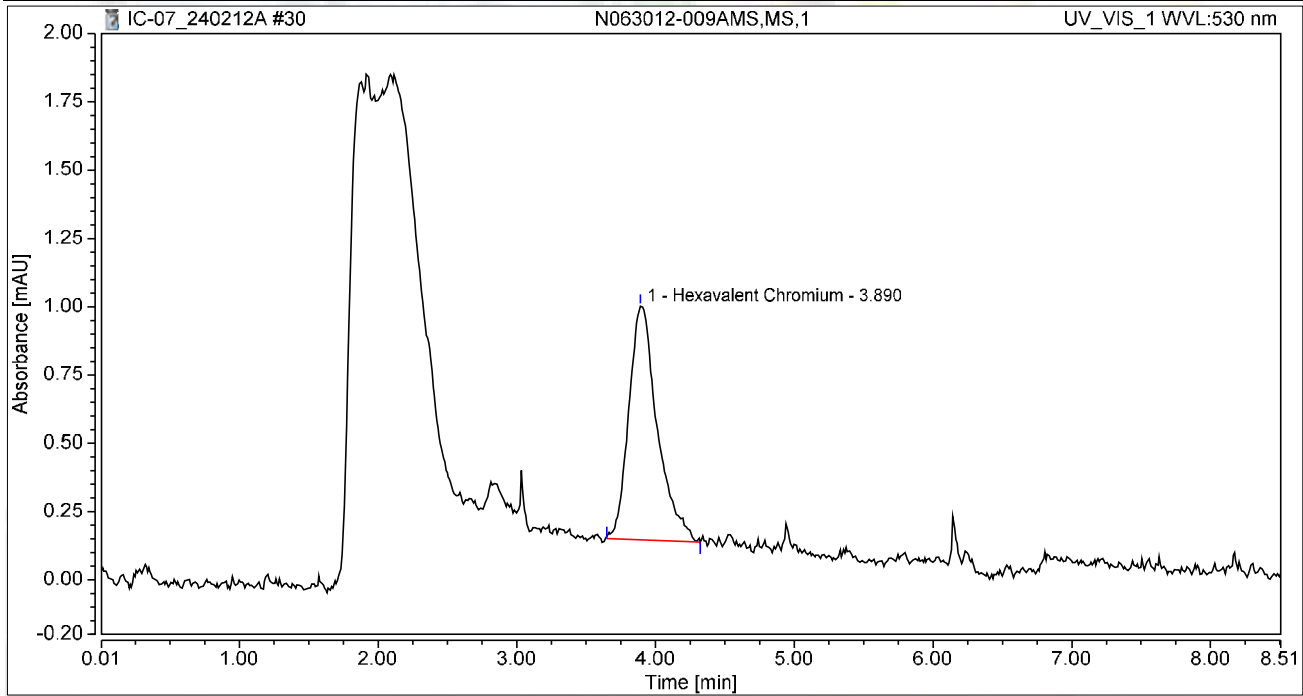
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.498	0.040	0.414	50.99	33.87	0.1877
2		6.090	0.039	0.808	49.01	66.13	n.a.
Total:			0.079	1.222	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:27	Sample Weight:	1.0000

Chromatogram



Integration Results

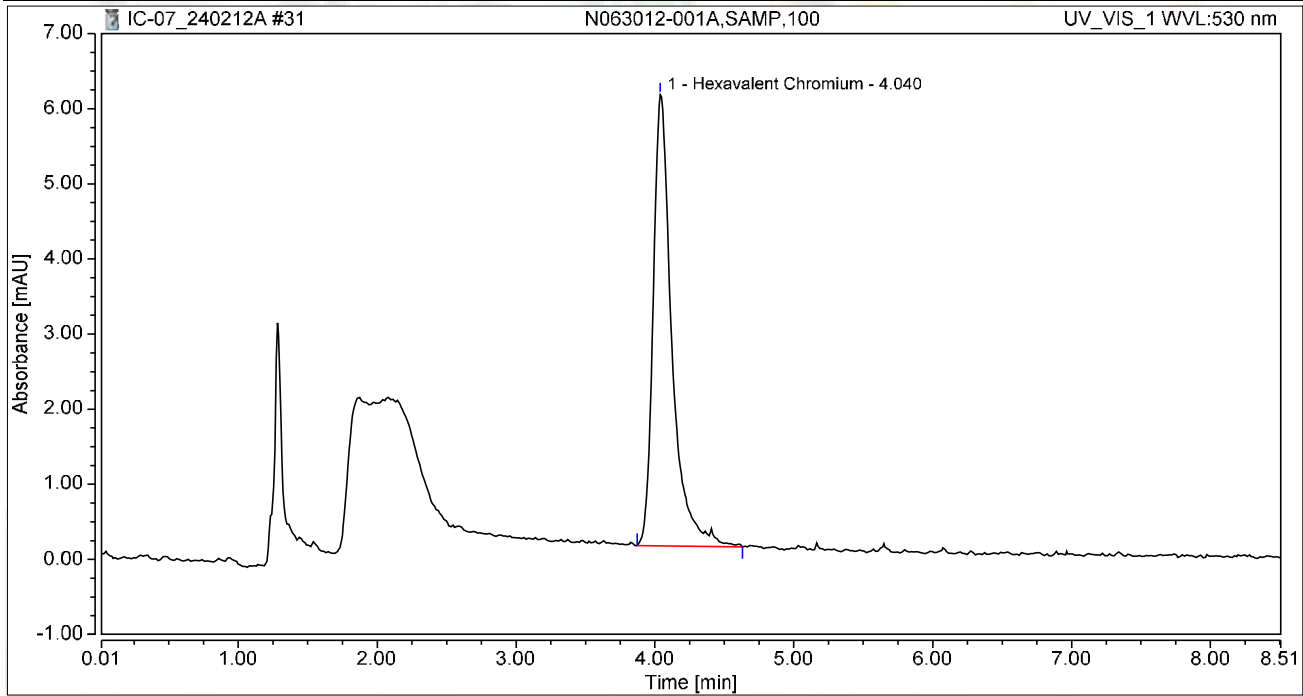
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.890	0.203	0.855	100.00	100.00	0.9458
Total:			0.203	0.855	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-001A,SAMP,100	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:36	Sample Weight:	1.0000

Chromatogram



Integration Results

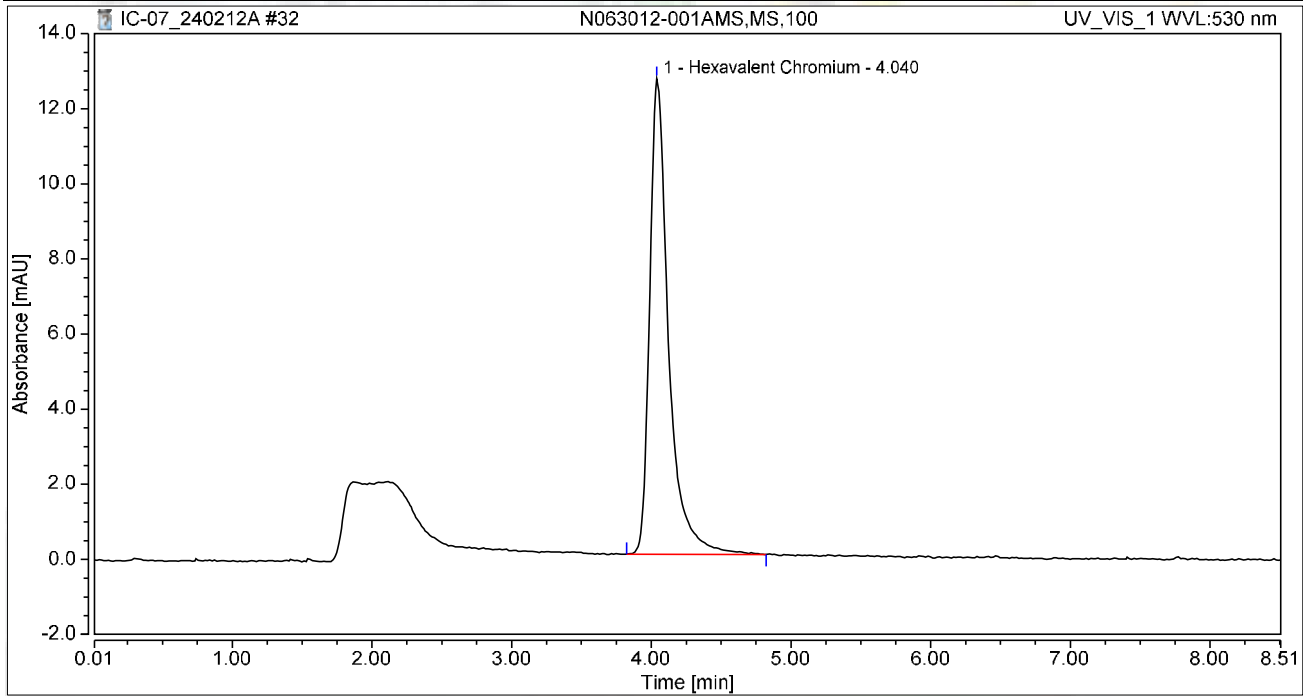
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.936	6.003	100.00	100.00	4.3517
Total:			0.936	6.003	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-001AMS,MS,100	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:46	Sample Weight:	1.0000

Chromatogram



Integration Results

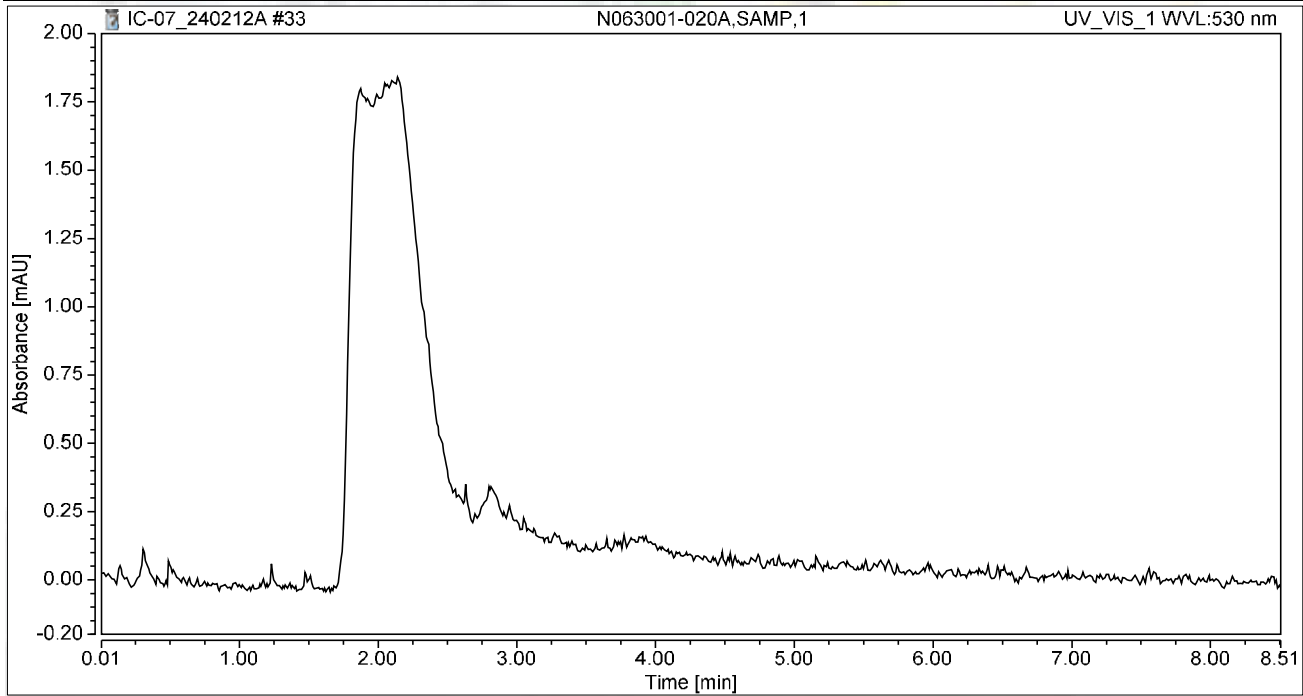
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.992	12.673	100.00	100.00	9.2592
Total:			1.992	12.673	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-020A,SAMP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 13:55	Sample Weight:	1.0000

Chromatogram



Integration Results

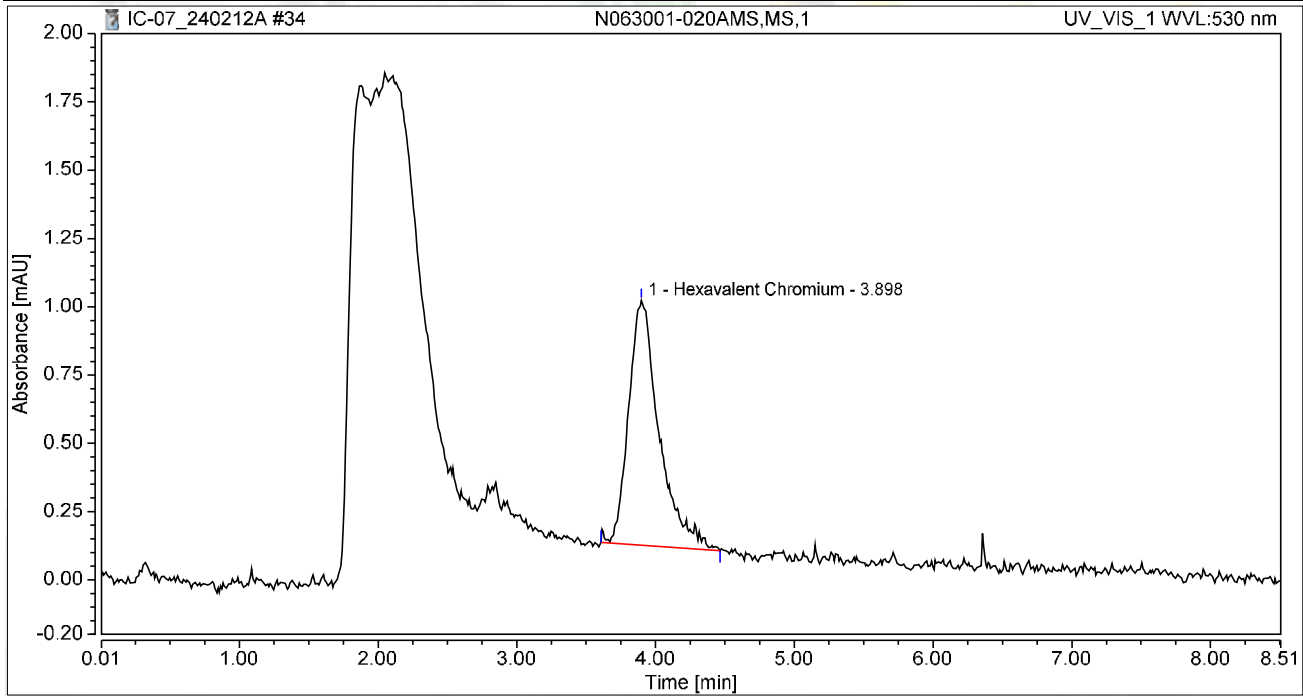
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

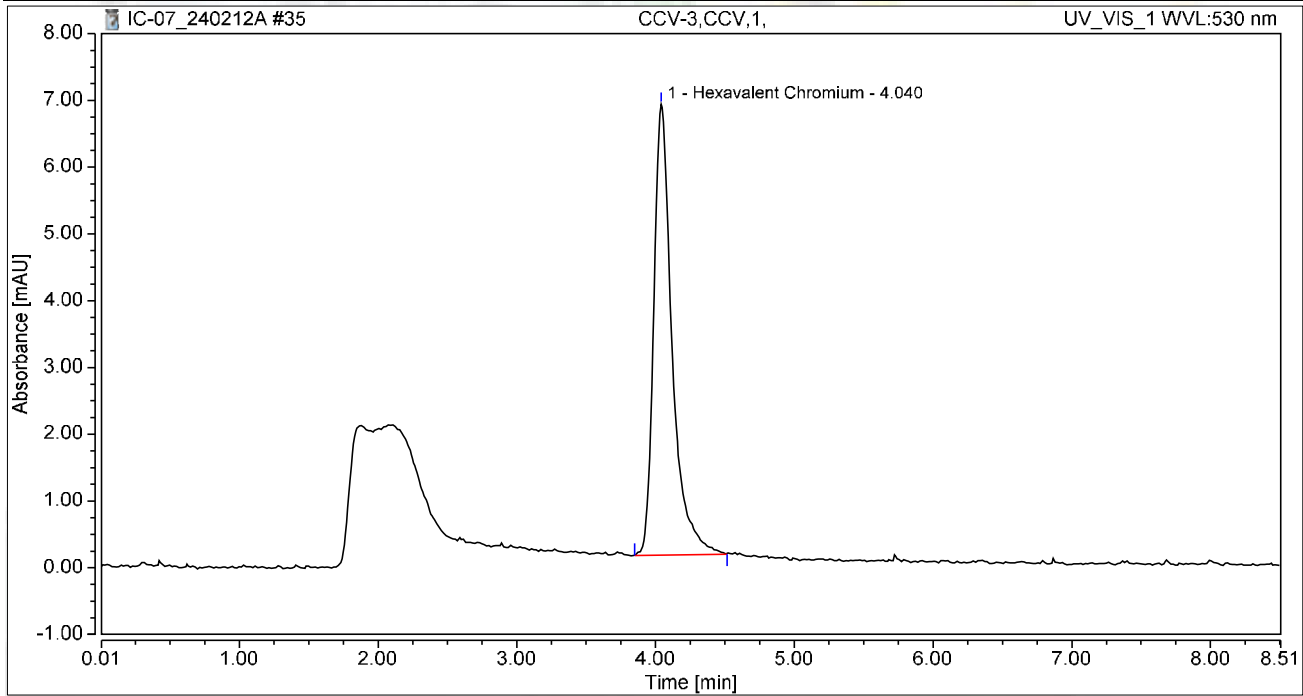
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.898	0.228	0.895	100.00	100.00	1.0597
Total:			0.228	0.895	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

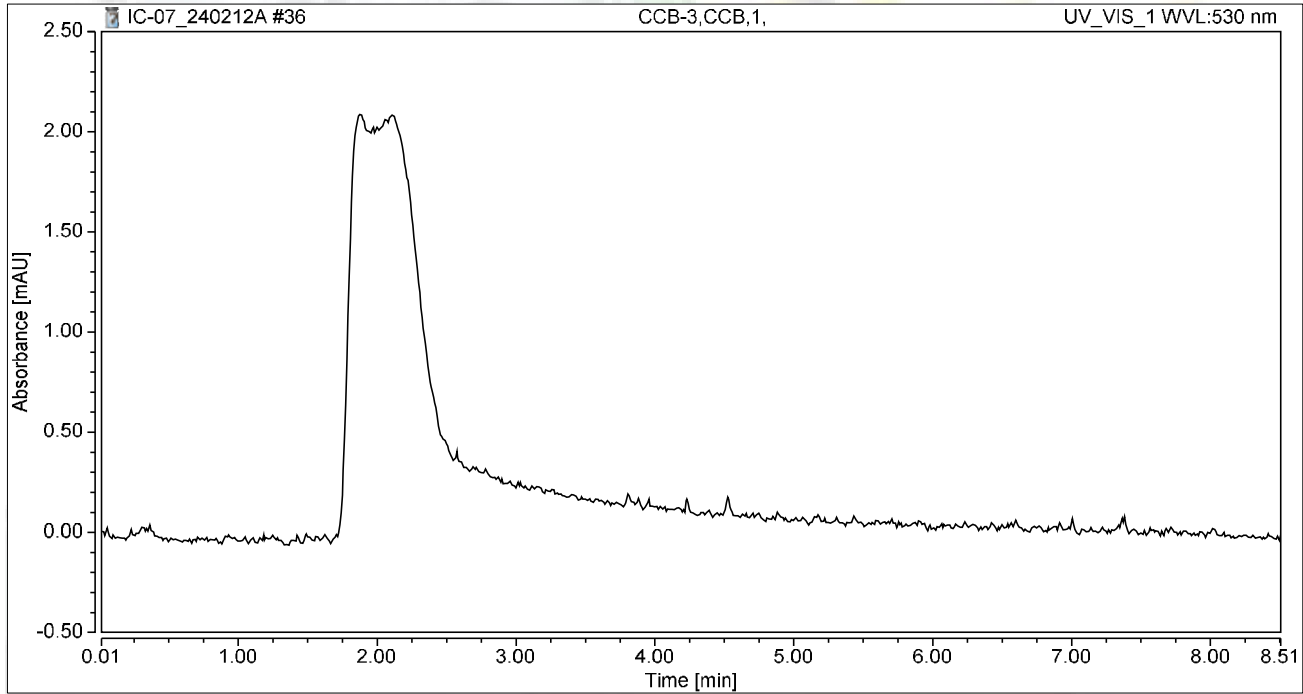
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.036	6.752	100.00	100.00	4.8146
Total:			1.036	6.752	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:24	Sample Weight:	1.0000

Chromatogram



Integration Results

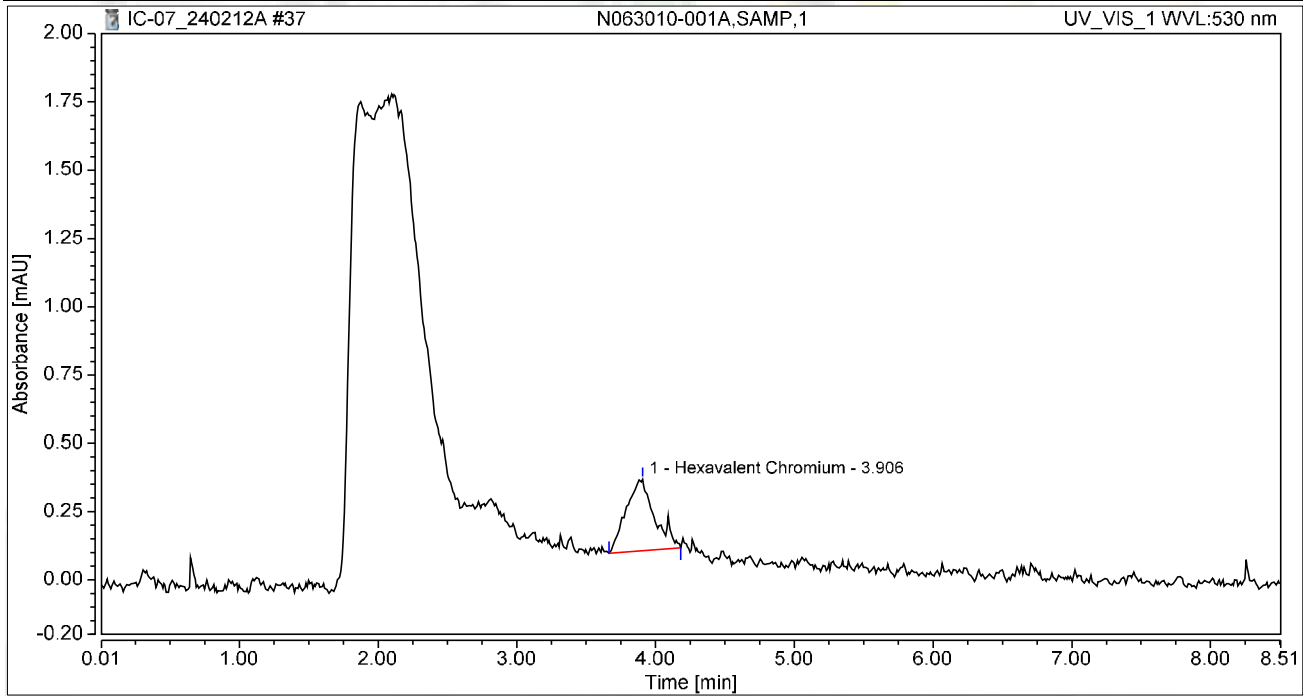
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063010-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

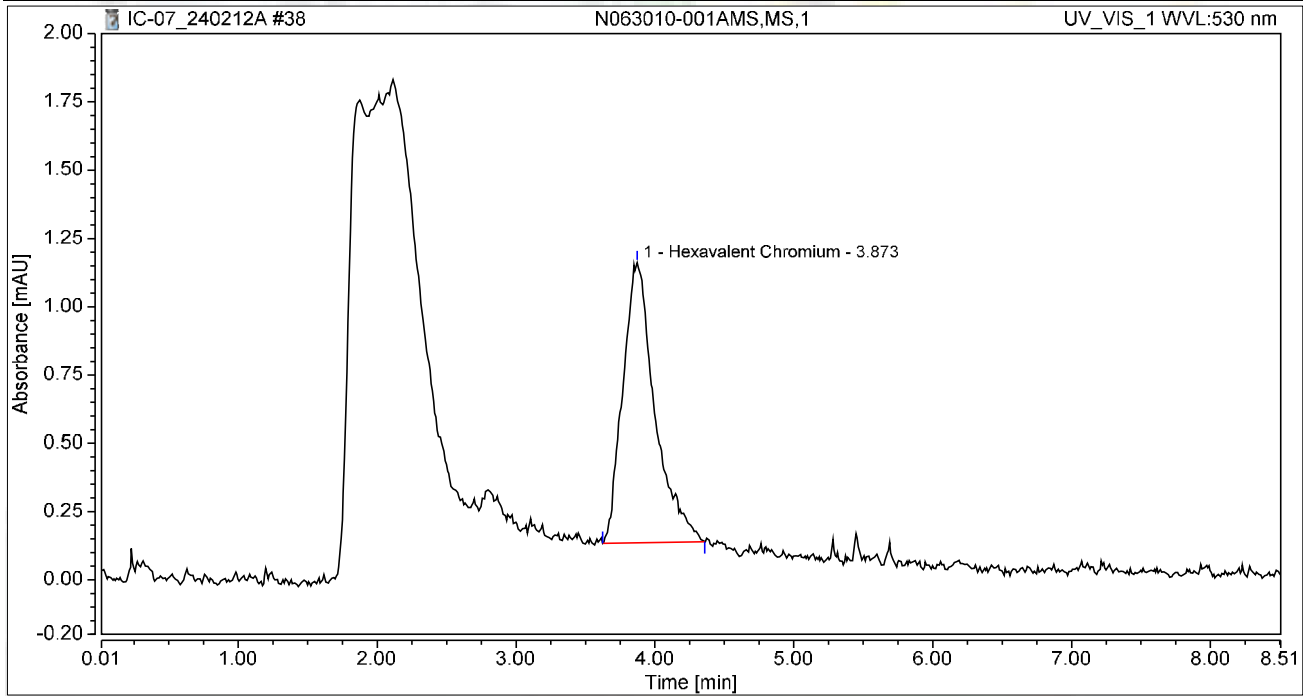
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.906	0.062	0.261	100.00	100.00	0.2887
Total:			0.062	0.261	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063010-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:43	Sample Weight:	1.0000

Chromatogram



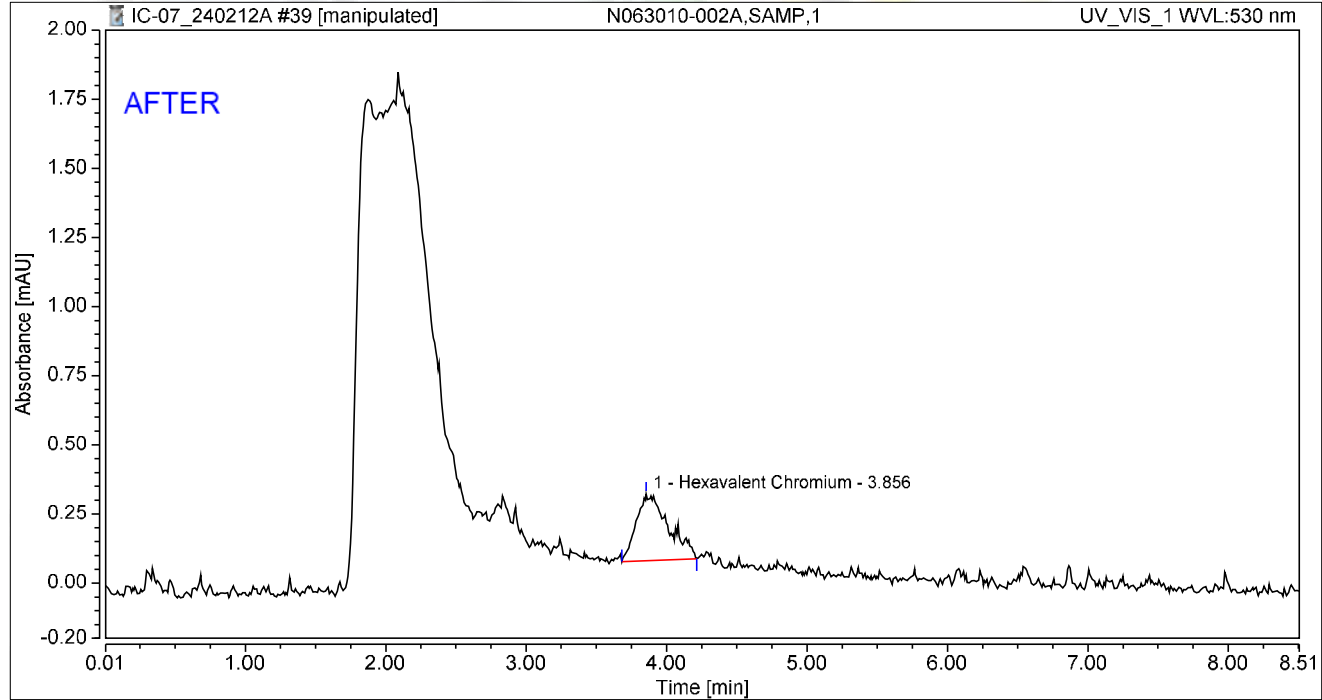
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.275	1.025	100.00	100.00	1.2765
Total:			0.275	1.025	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N063010-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Feb/24 14:52	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.064	0.242	100.00	100.00	0.2958
Total:			0.064	0.242	100.00	100.00	

Reviewed by:

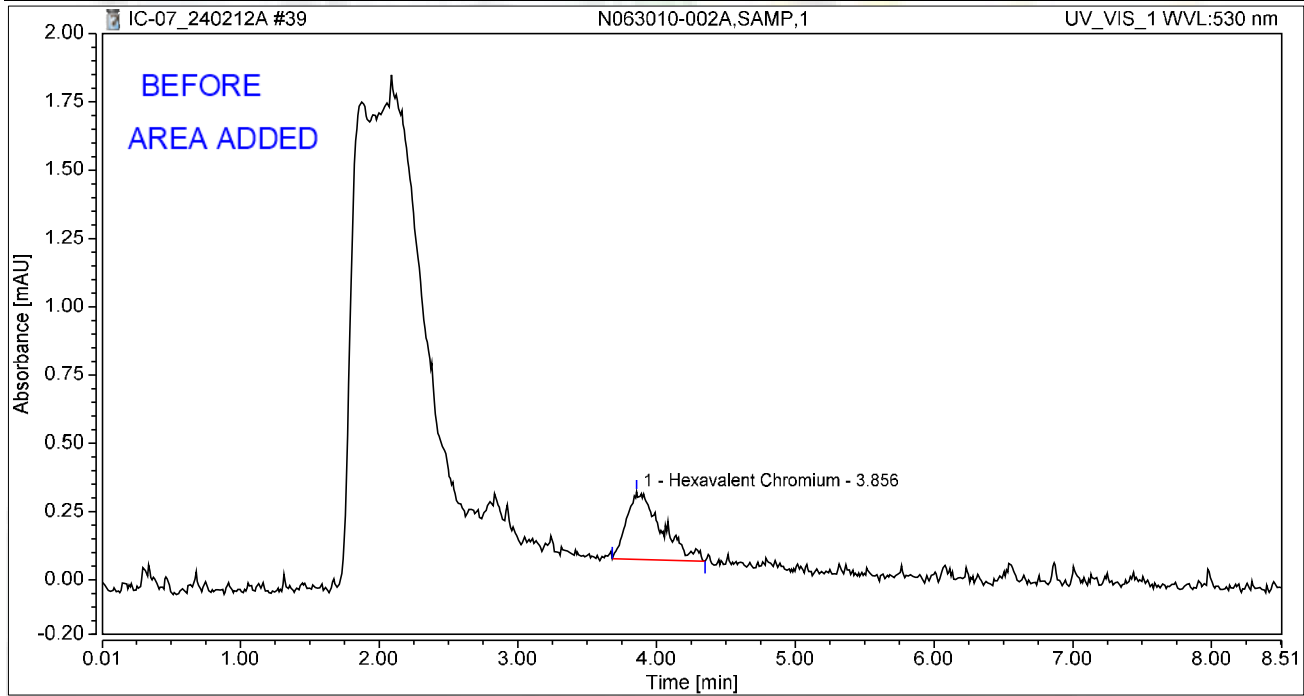
JRB 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	N063010-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

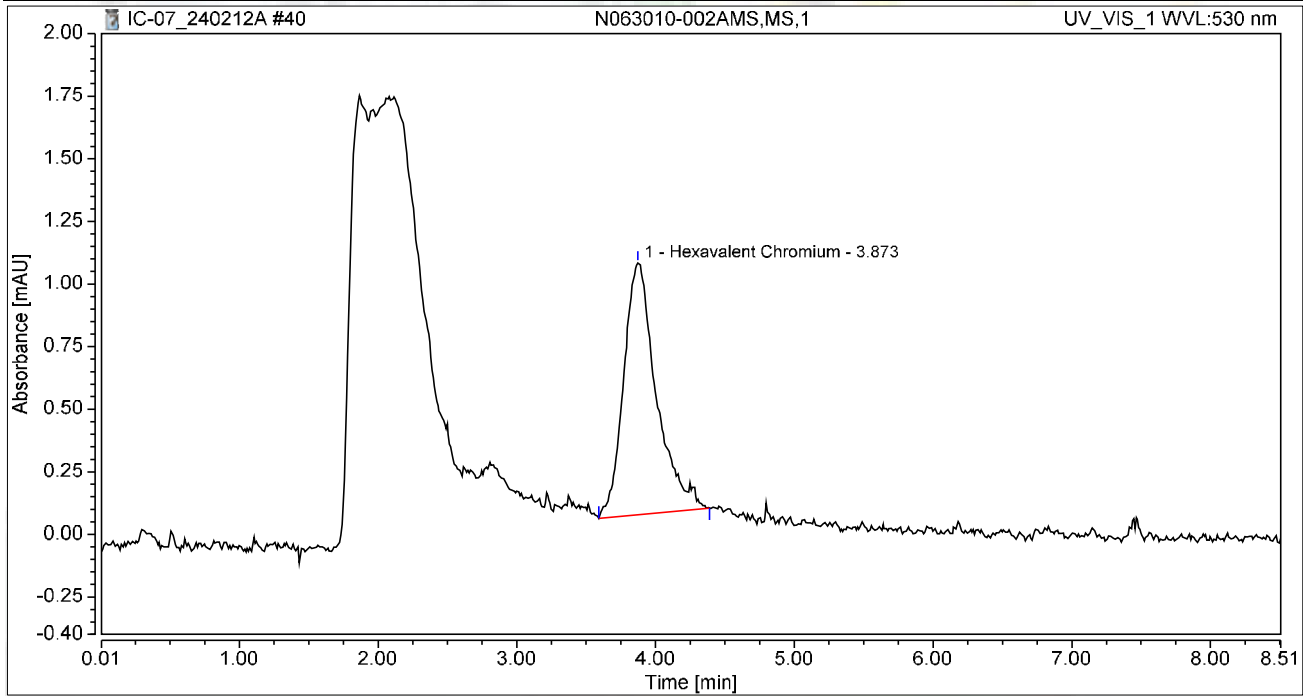
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.072	0.247	100.00	100.00	0.3332
Total:			0.072	0.247	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063010-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

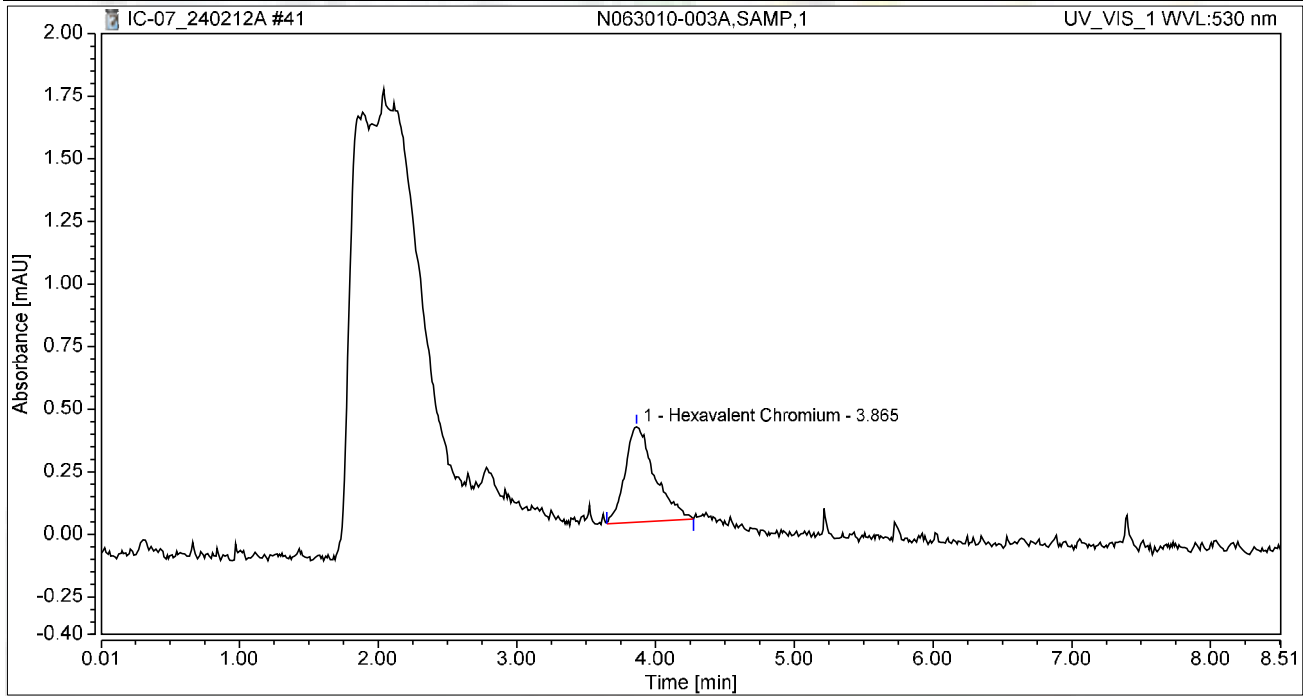
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.873	0.275	1.006	100.00	100.00	1.2808
Total:			0.275	1.006	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063010-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

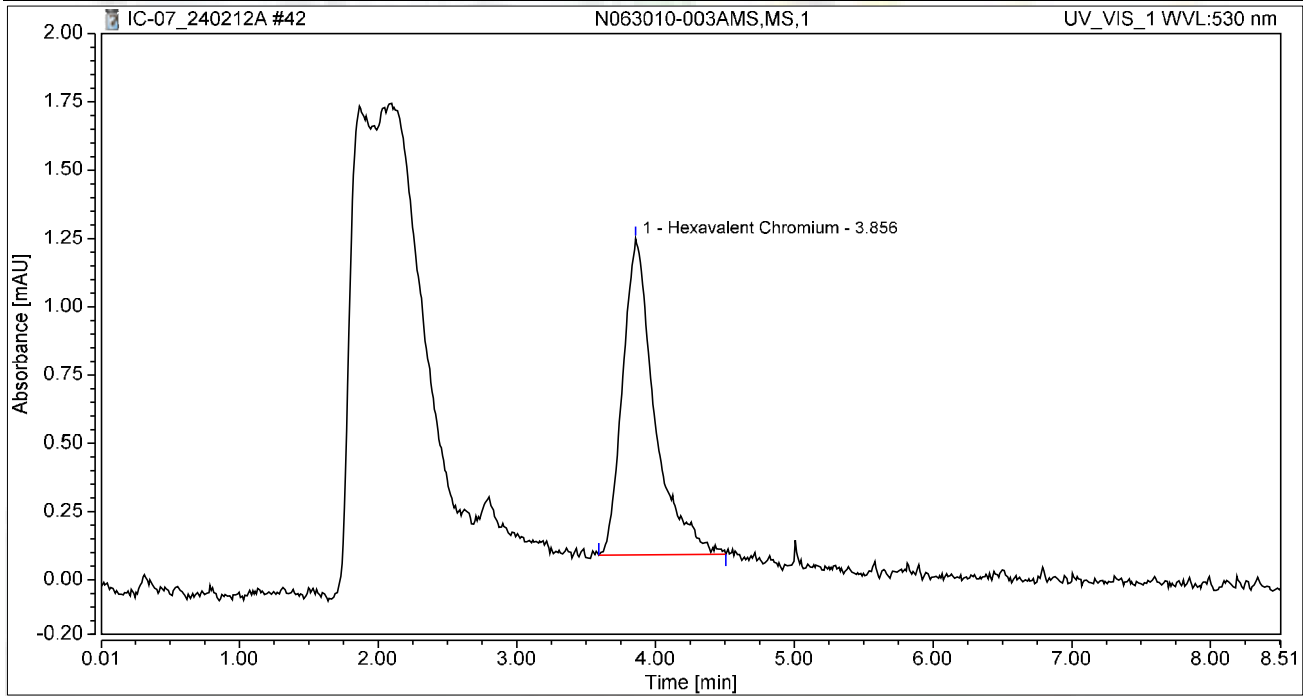
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.865	0.095	0.382	100.00	100.00	0.4431
Total:			0.095	0.382	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063010-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:20	Sample Weight:	1.0000

Chromatogram



Integration Results

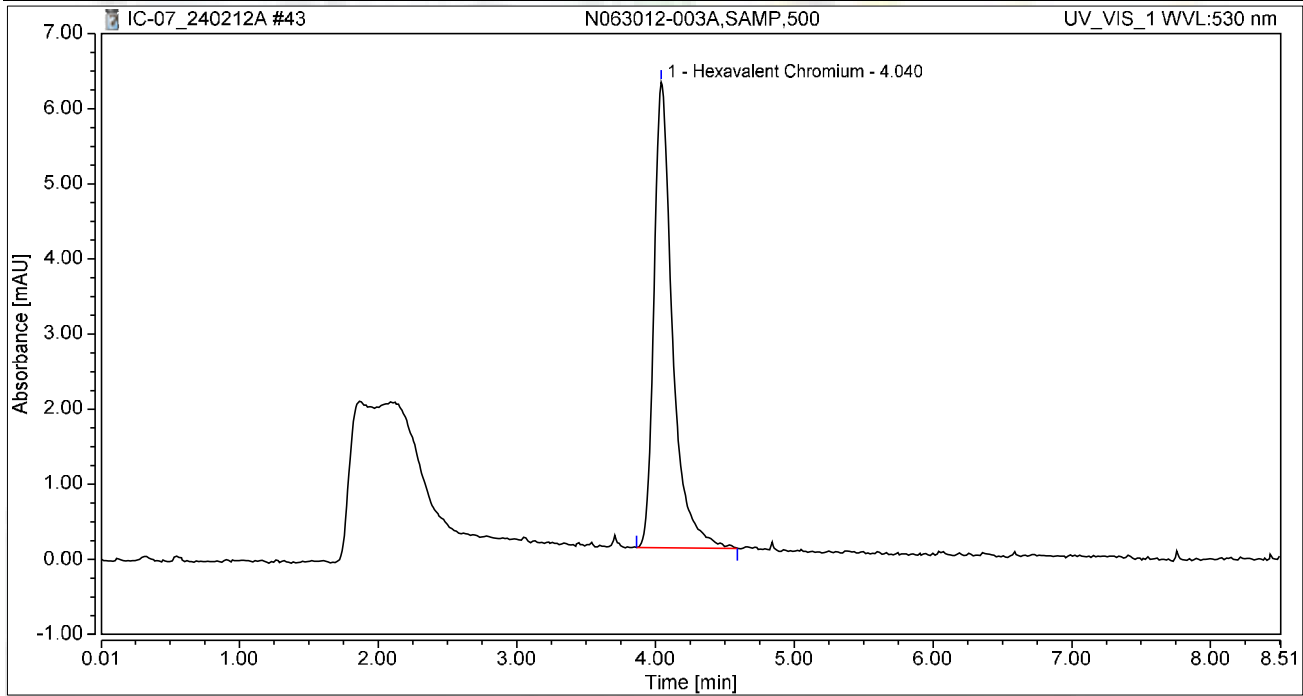
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.309	1.157	100.00	100.00	1.4345
Total:			0.309	1.157	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-003A,SAMP,500	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

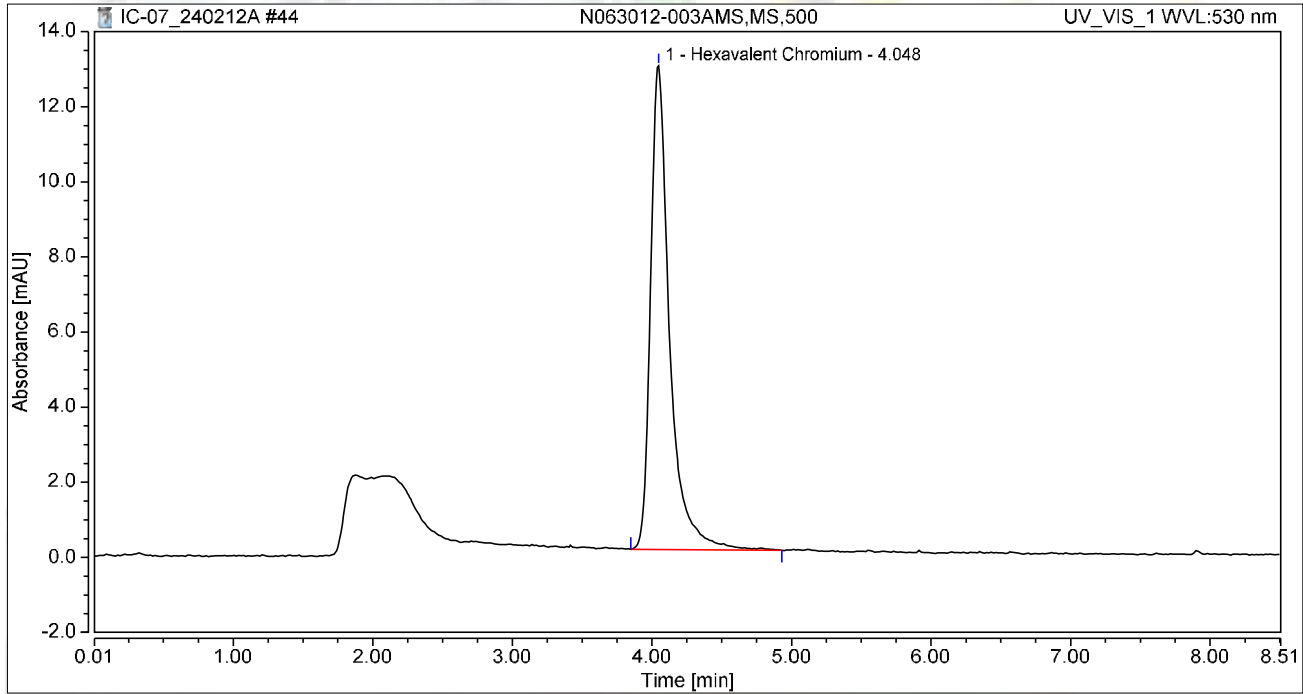
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.960	6.200	100.00	100.00	4.4626
Total:			0.960	6.200	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-003AMS,MS,500	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

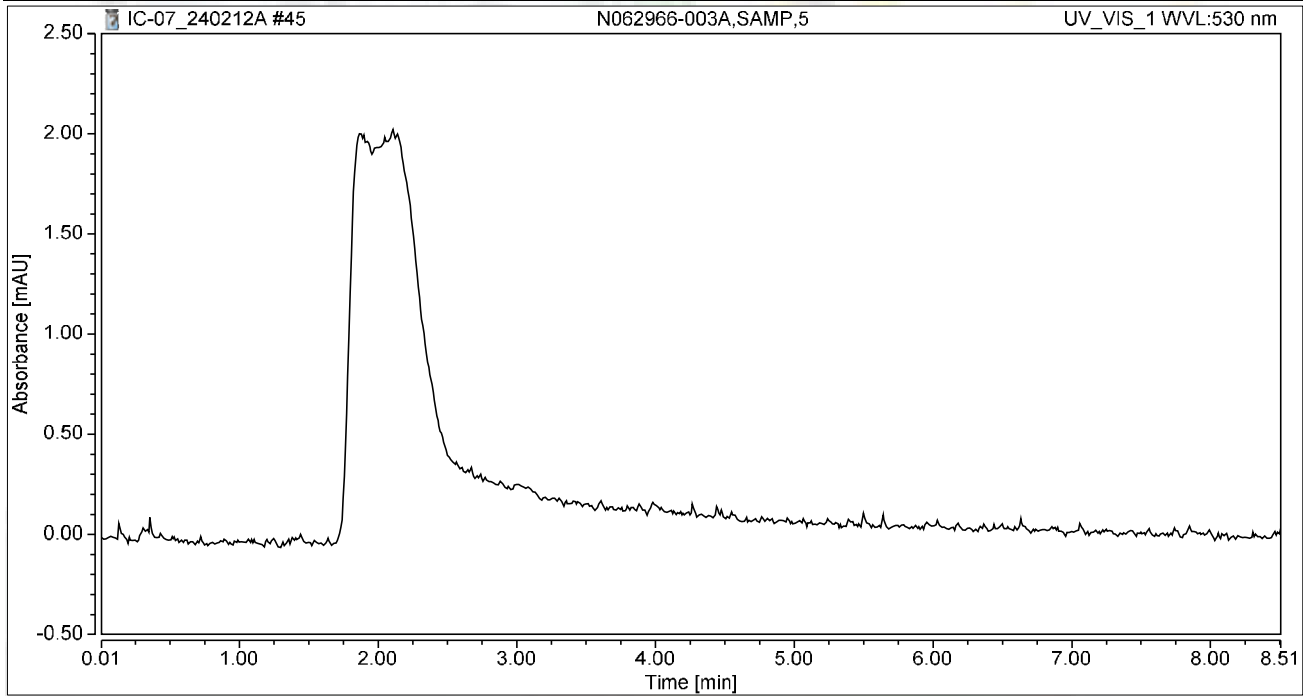
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.048	2.038	12.877	100.00	100.00	9.4724
Total:			2.038	12.877	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:49	Sample Weight:	1.0000

Chromatogram



Integration Results

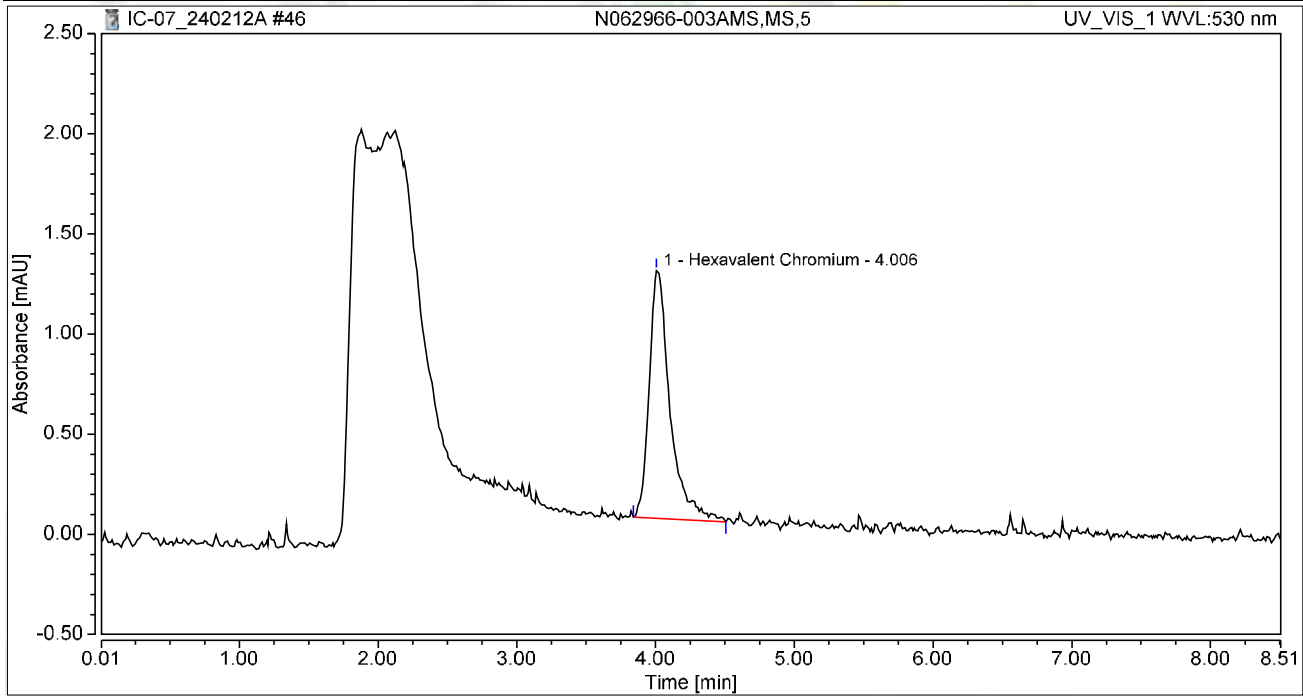
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 15:58	Sample Weight:	1.0000

Chromatogram



Integration Results

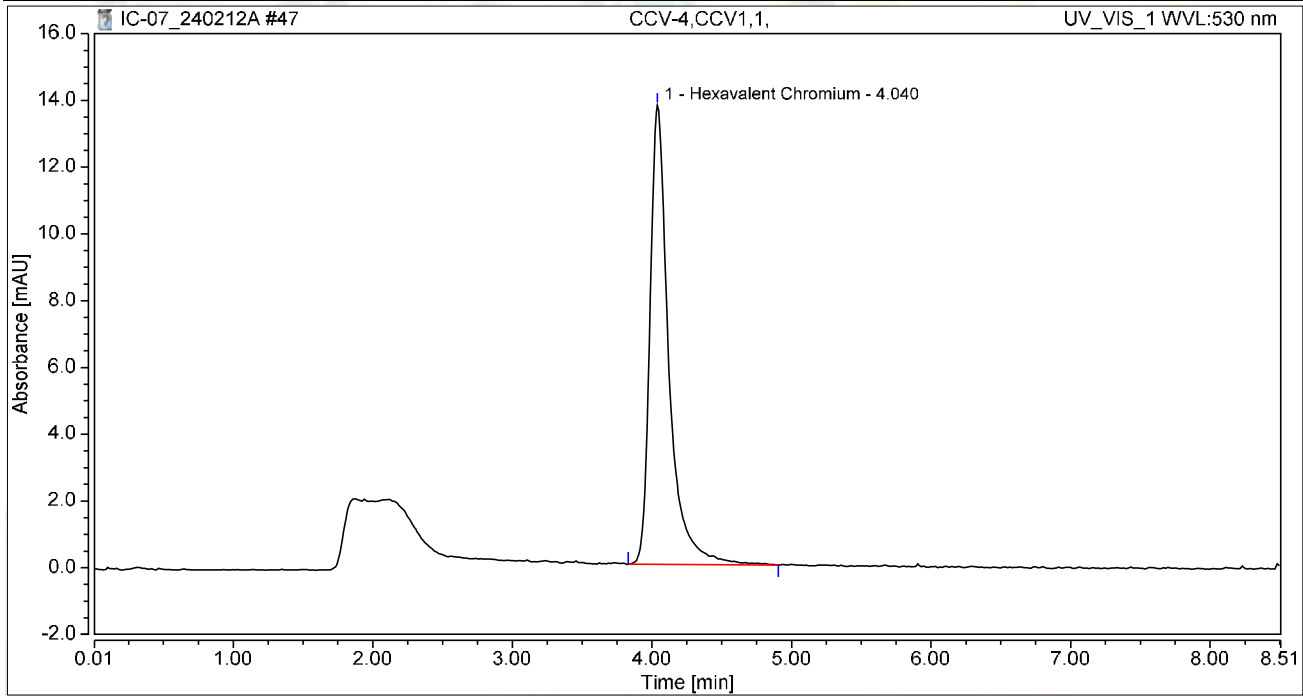
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.214	1.236	100.00	100.00	0.9953
Total:			0.214	1.236	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:08	Sample Weight:	1.0000

Chromatogram



Integration Results

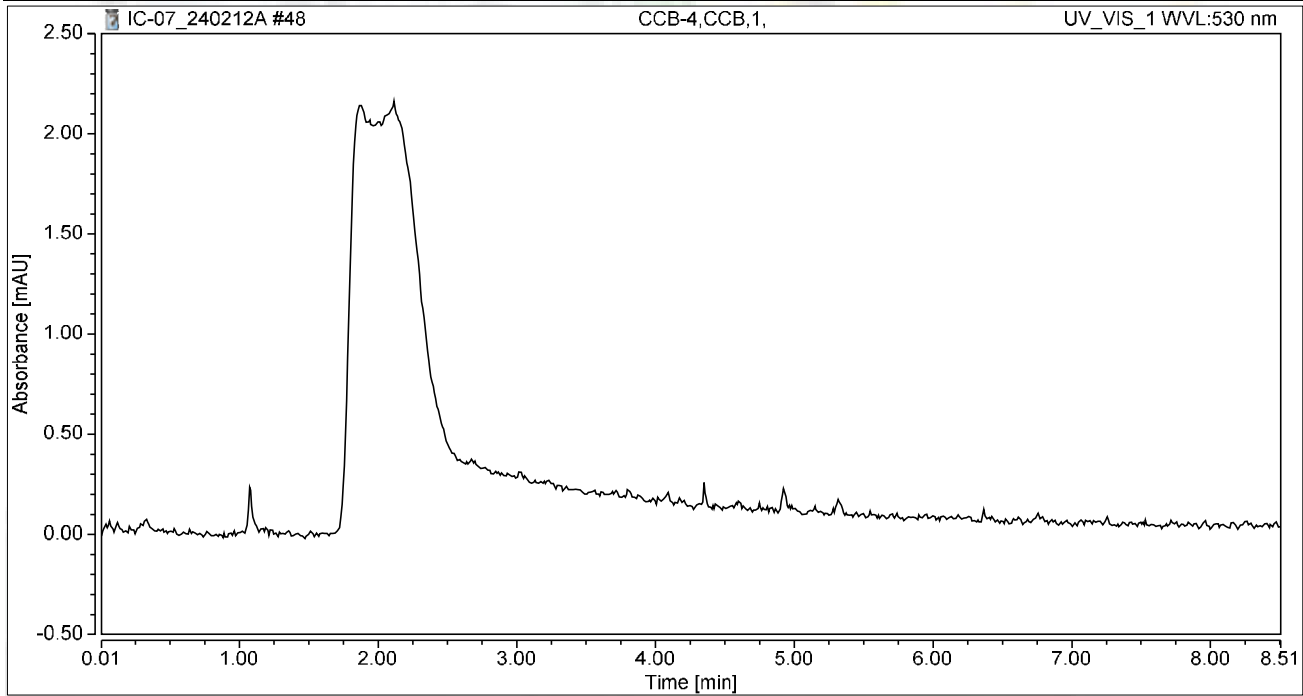
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.154	13.753	100.00	100.00	10.0160
Total:			2.154	13.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:17	Sample Weight:	1.0000

Chromatogram



Integration Results

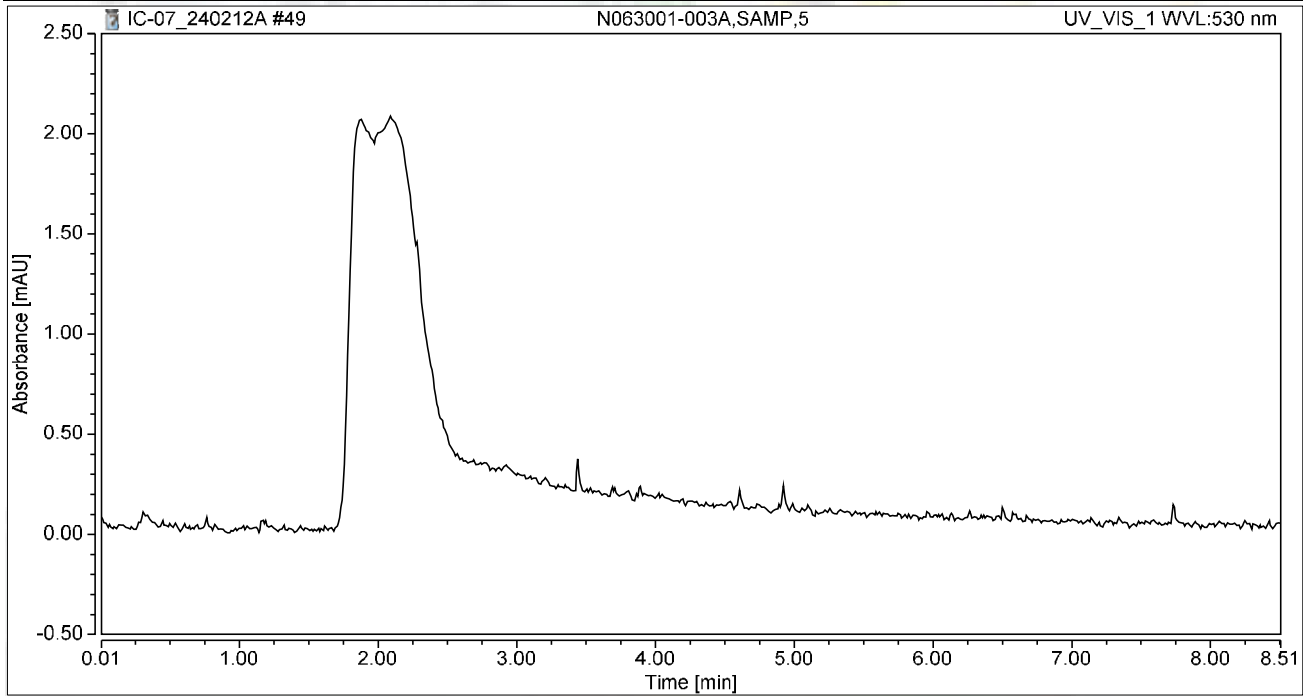
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

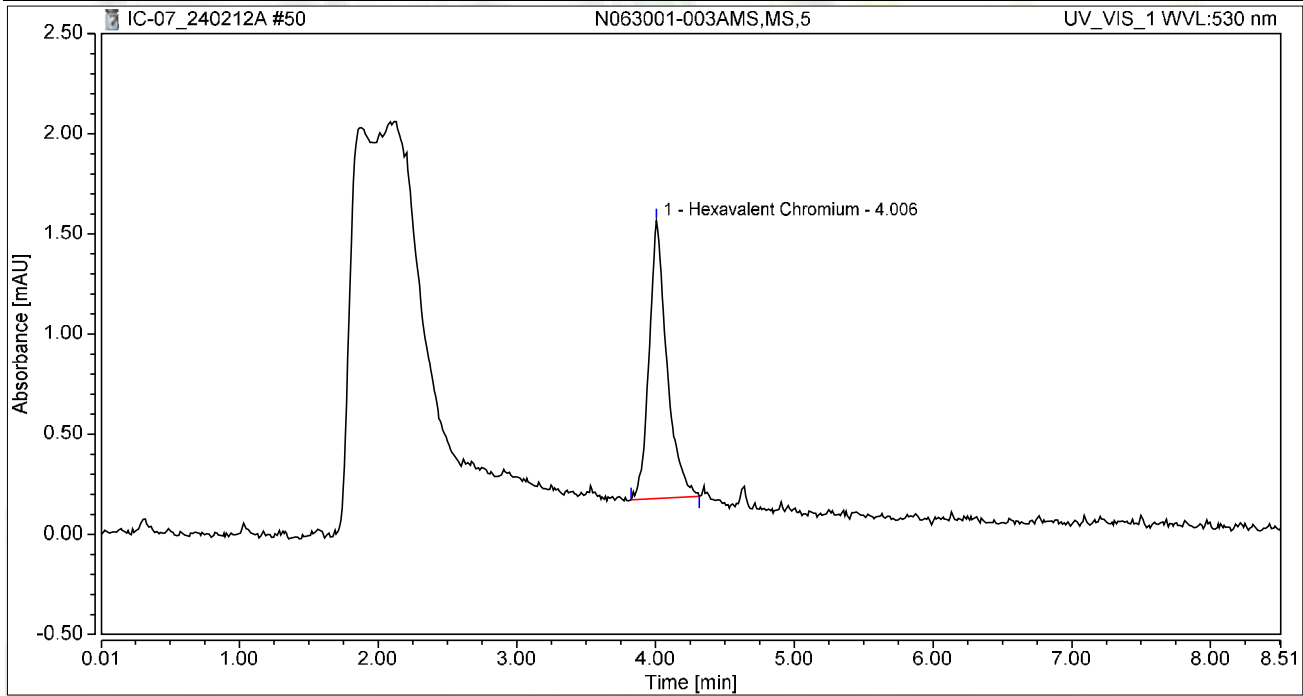
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:36	Sample Weight:	1.0000

Chromatogram



Integration Results

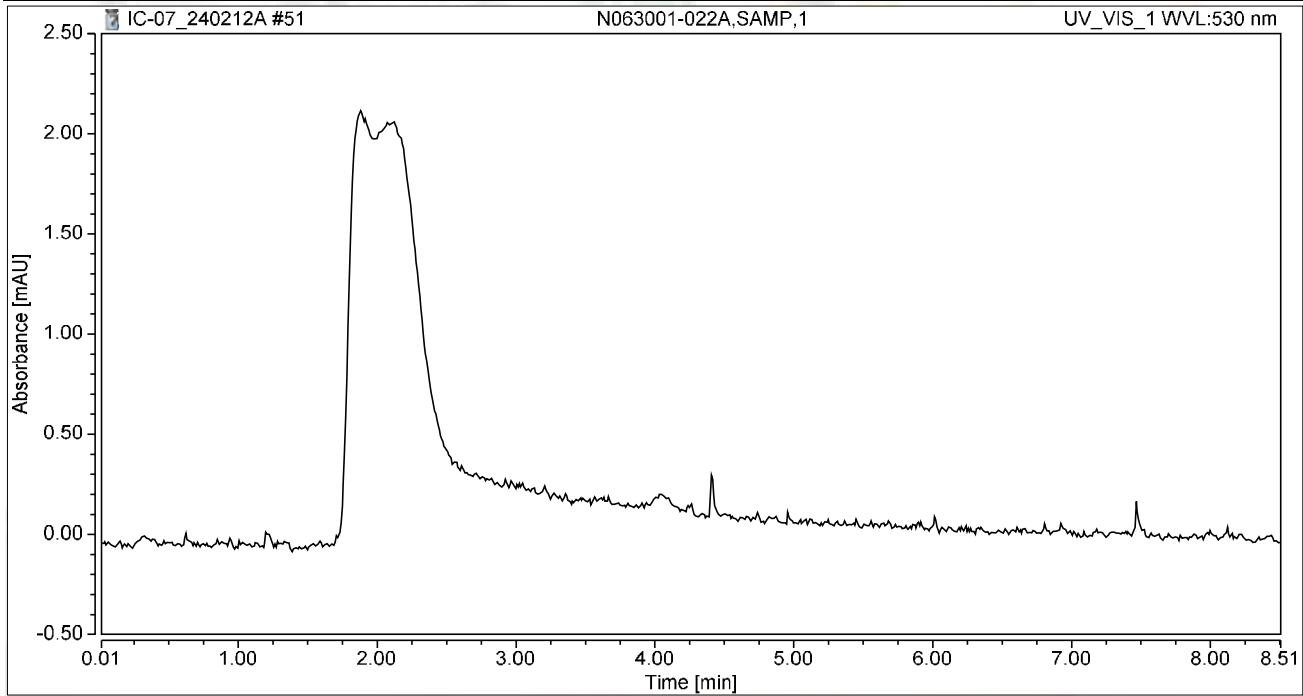
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.006	0.206	1.387	100.00	100.00	0.9557
Total:			0.206	1.387	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-022A,SAMP,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

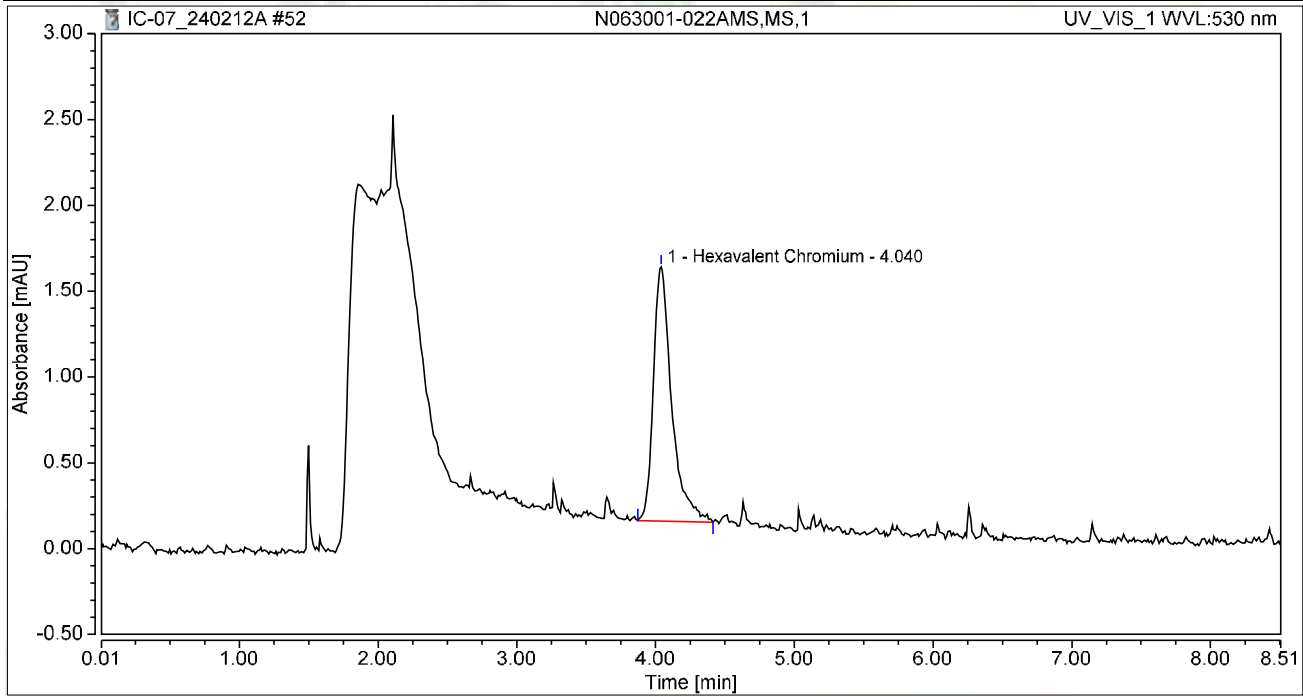
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-022AMS,MS,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 16:55	Sample Weight:	1.0000

Chromatogram



Integration Results

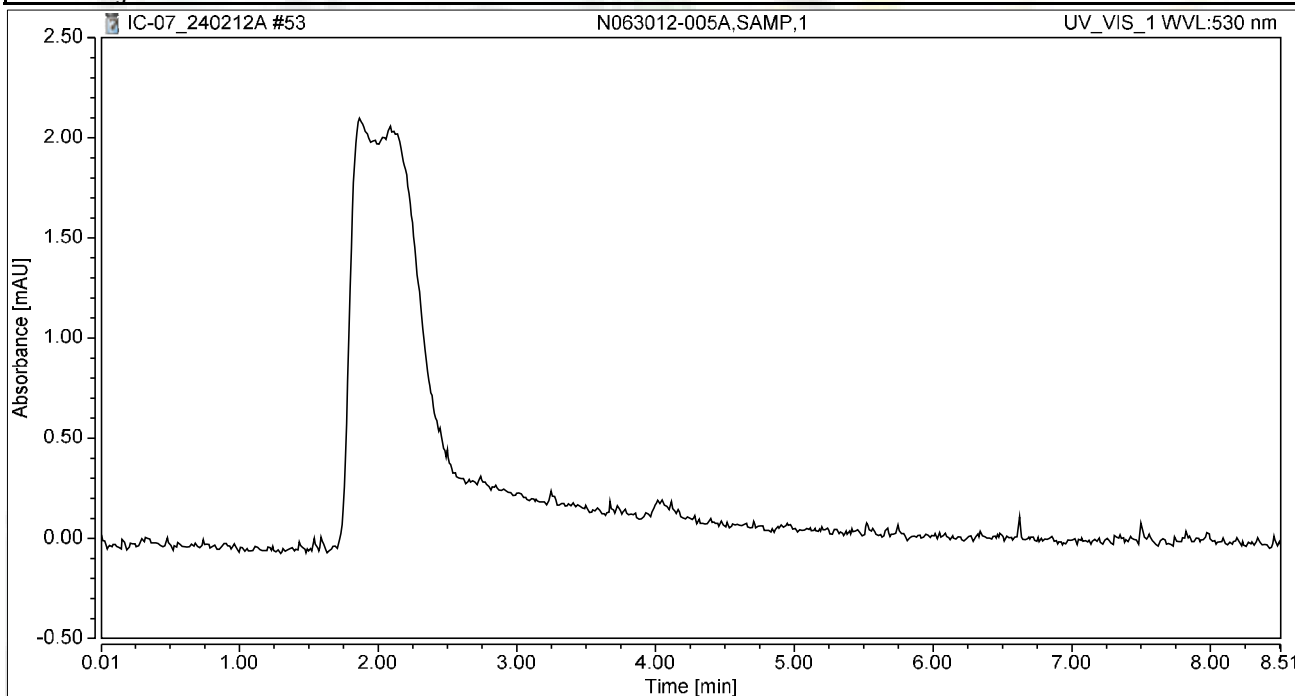
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.226	1.480	100.00	100.00	1.0526
Total:			0.226	1.480	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:04	Sample Weight:	1.0000

Chromatogram



Integration Results

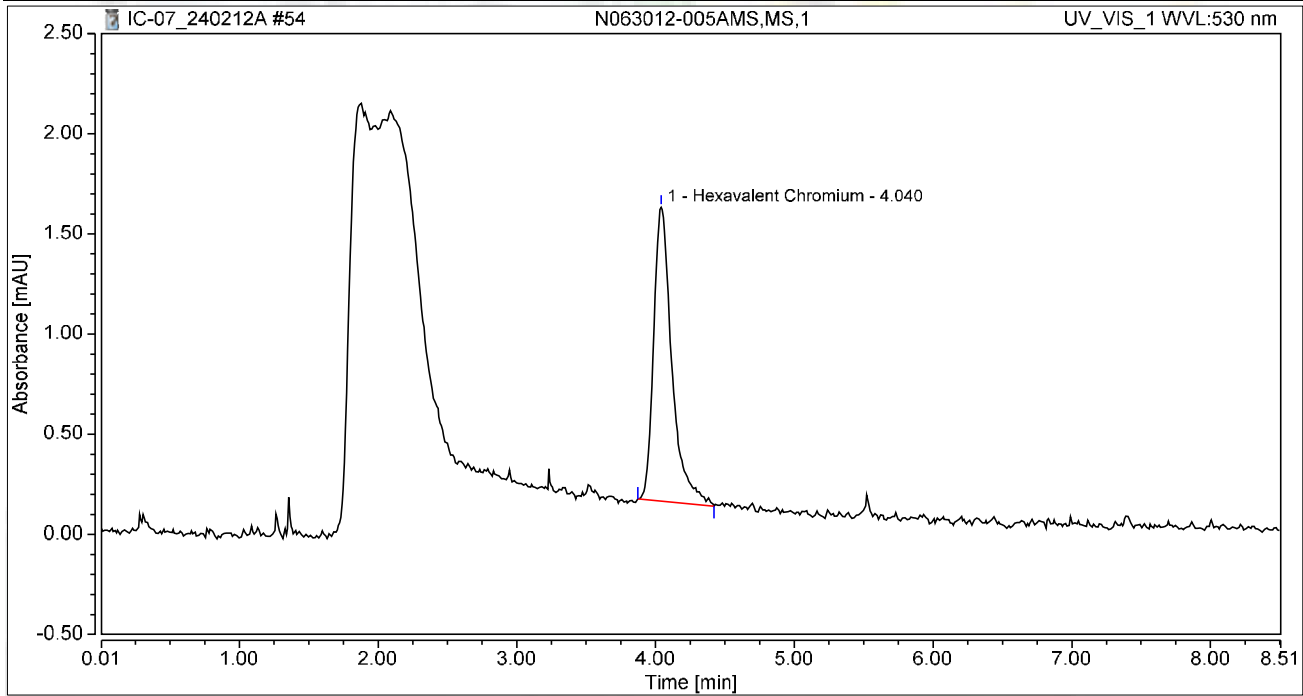
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:14	Sample Weight:	1.0000

Chromatogram



Integration Results

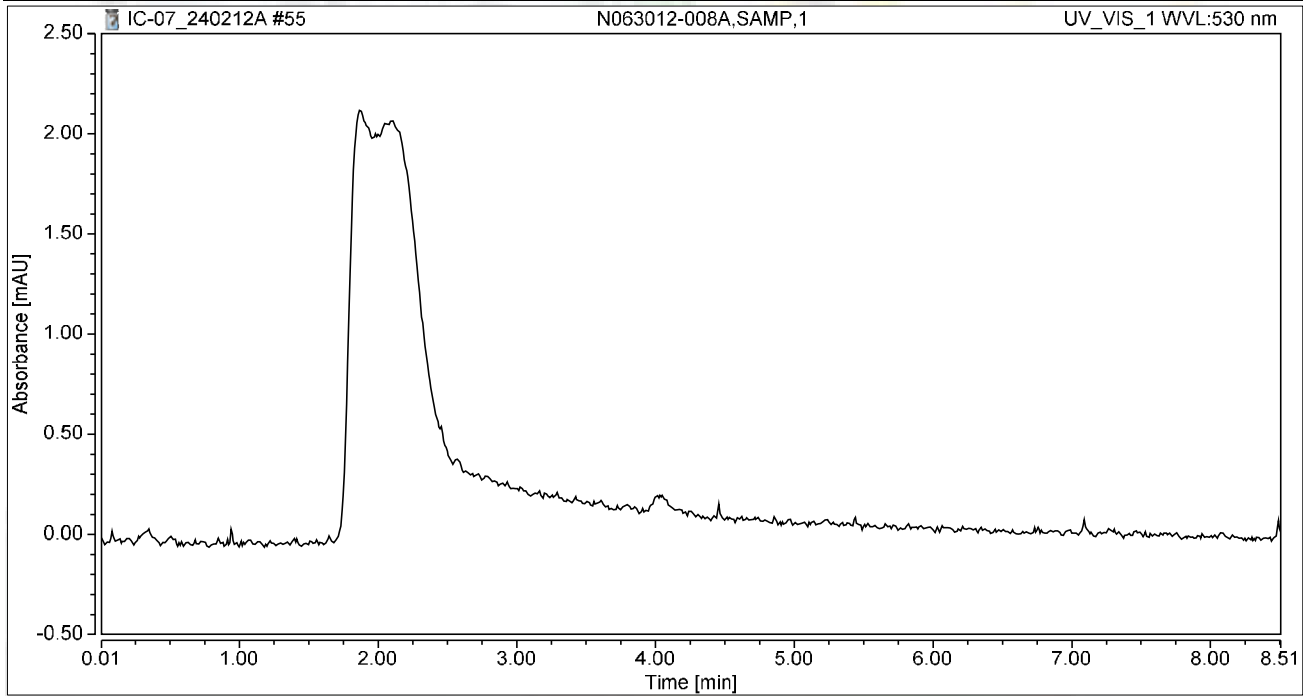
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.224	1.468	100.00	100.00	1.0392
Total:			0.224	1.468	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:23	Sample Weight:	1.0000

Chromatogram



Integration Results

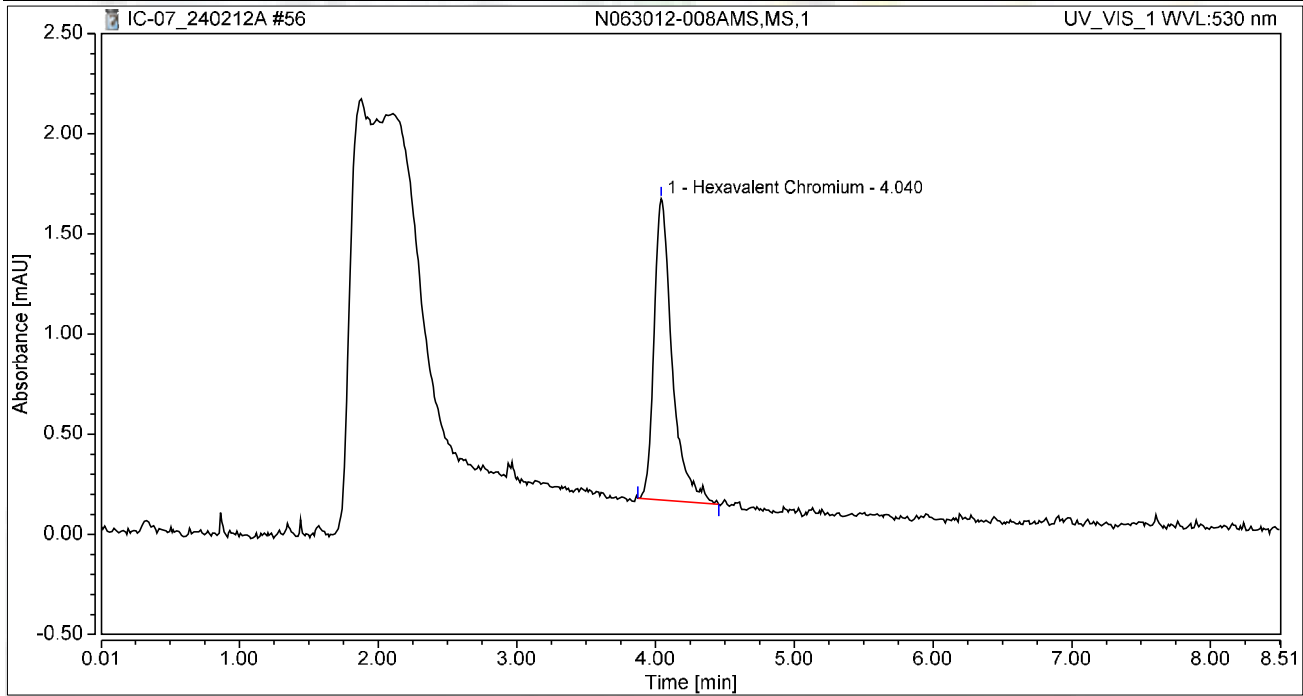
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:33	Sample Weight:	1.0000

Chromatogram



Integration Results

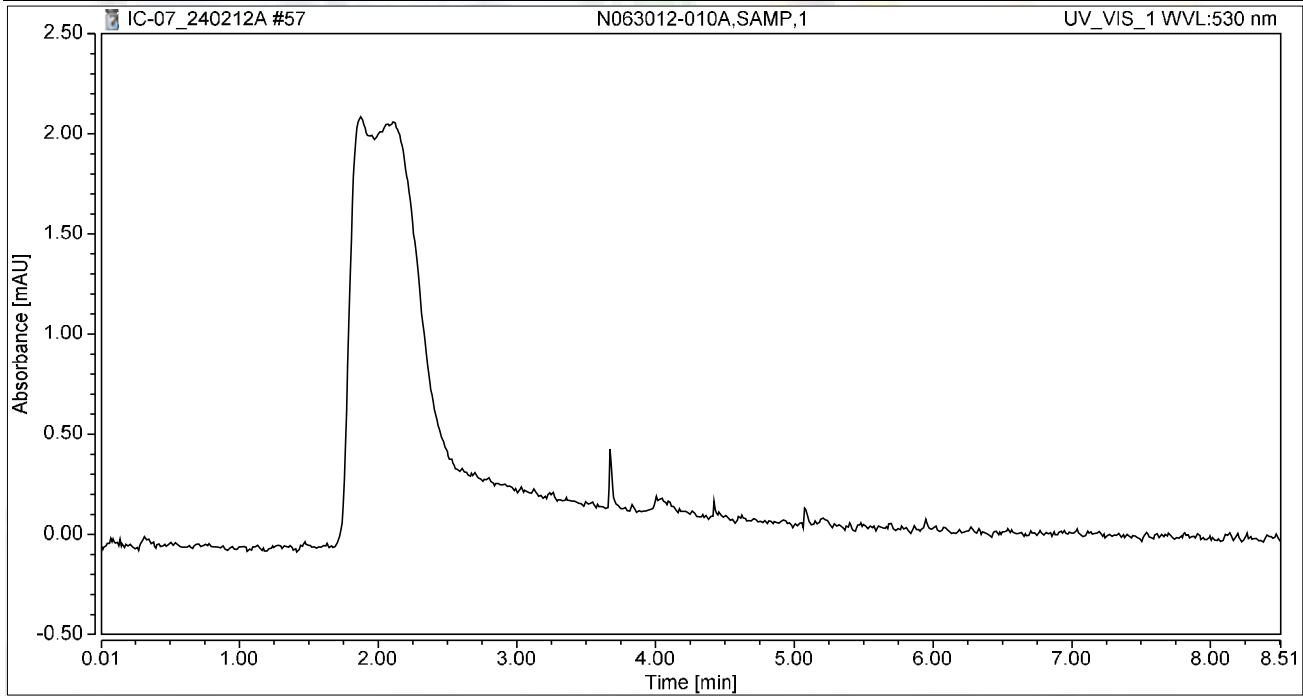
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.228	1.504	100.00	100.00	1.0591
Total:			0.228	1.504	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:42	Sample Weight:	1.0000

Chromatogram



Integration Results

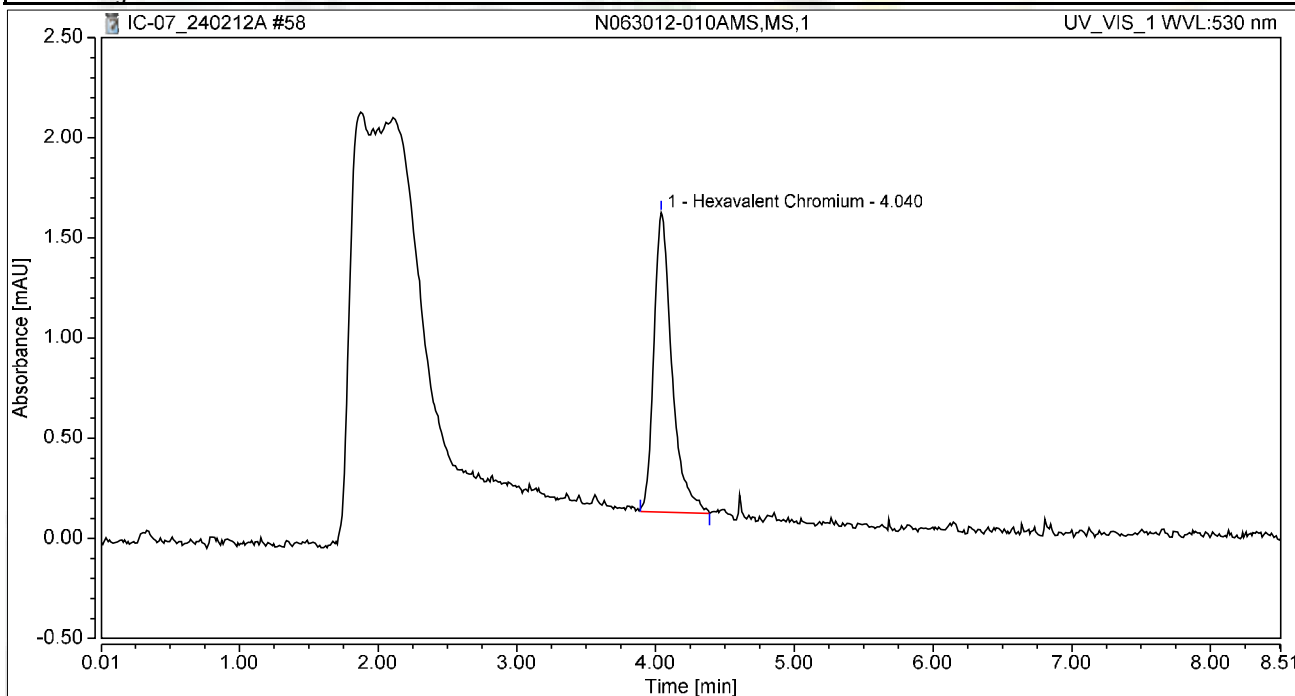
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 17:52	Sample Weight:	1.0000

Chromatogram



Integration Results

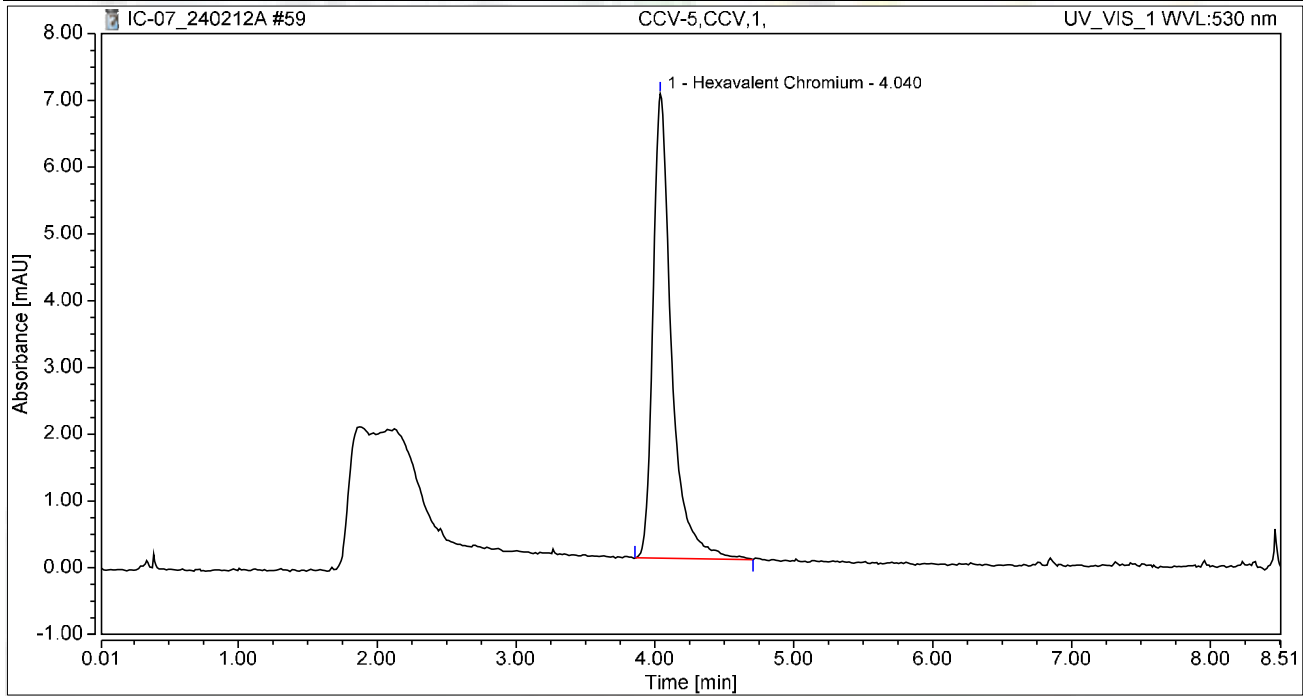
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.226	1.495	100.00	100.00	1.0502
Total:			0.226	1.495	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:01	Sample Weight:	1.0000

Chromatogram



Integration Results

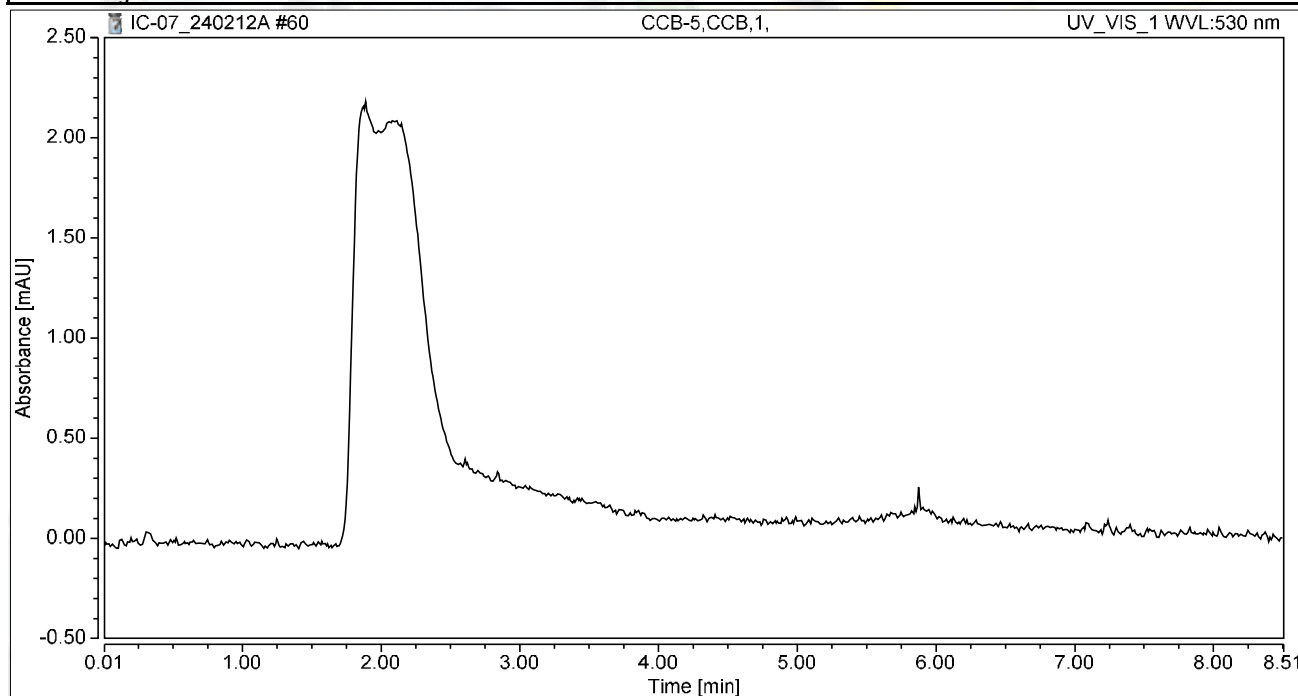
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	1.076	6.956	100.00	100.00	5.0000
Total:			1.076	6.956	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:14	Sample Weight:	1.0000

Chromatogram



Integration Results

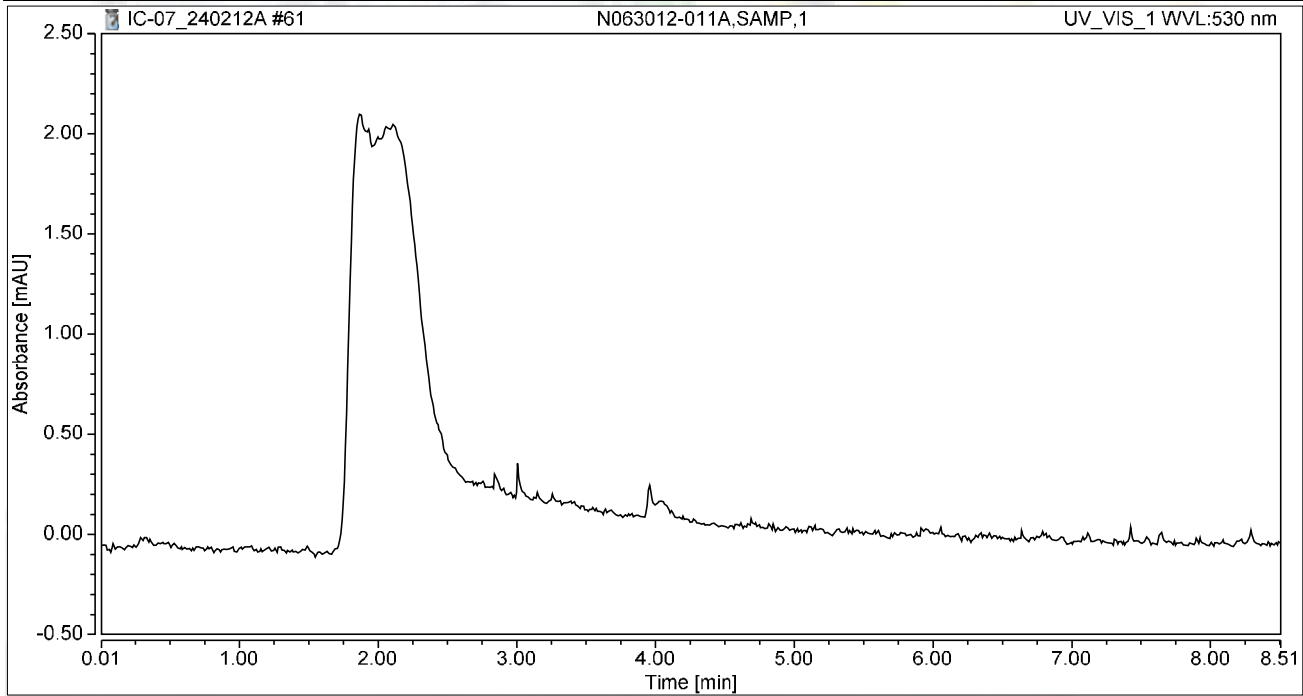
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:24	Sample Weight:	1.0000

Chromatogram



Integration Results

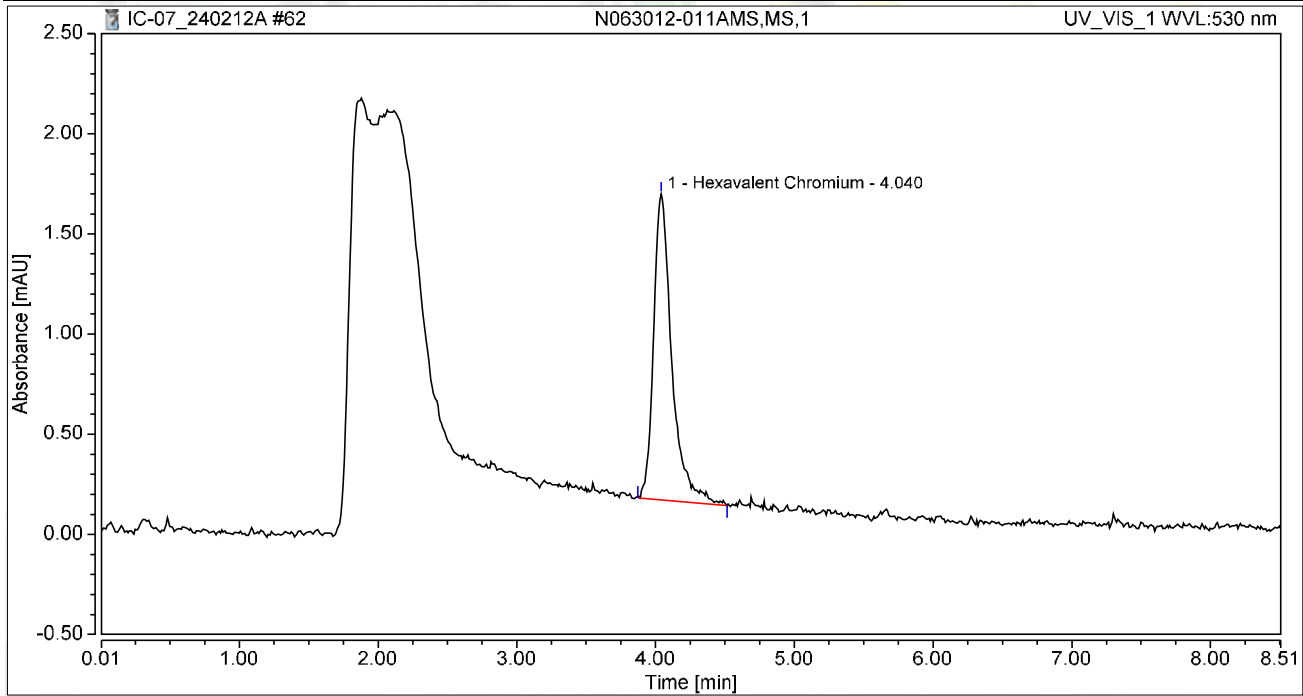
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N063012-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:33	Sample Weight:	1.0000

Chromatogram



Integration Results

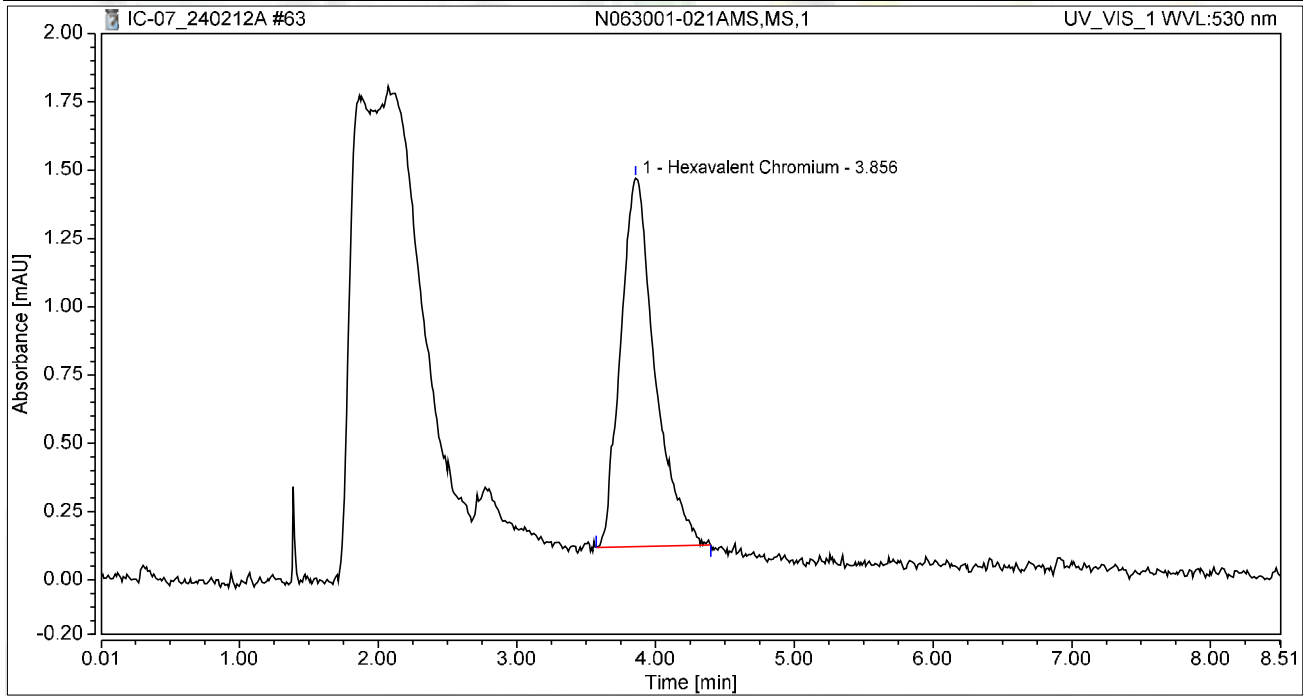
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	0.233	1.527	100.00	100.00	1.0811
Total:			0.233	1.527	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N063001-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:43	Sample Weight:	1.0000

Chromatogram



Integration Results

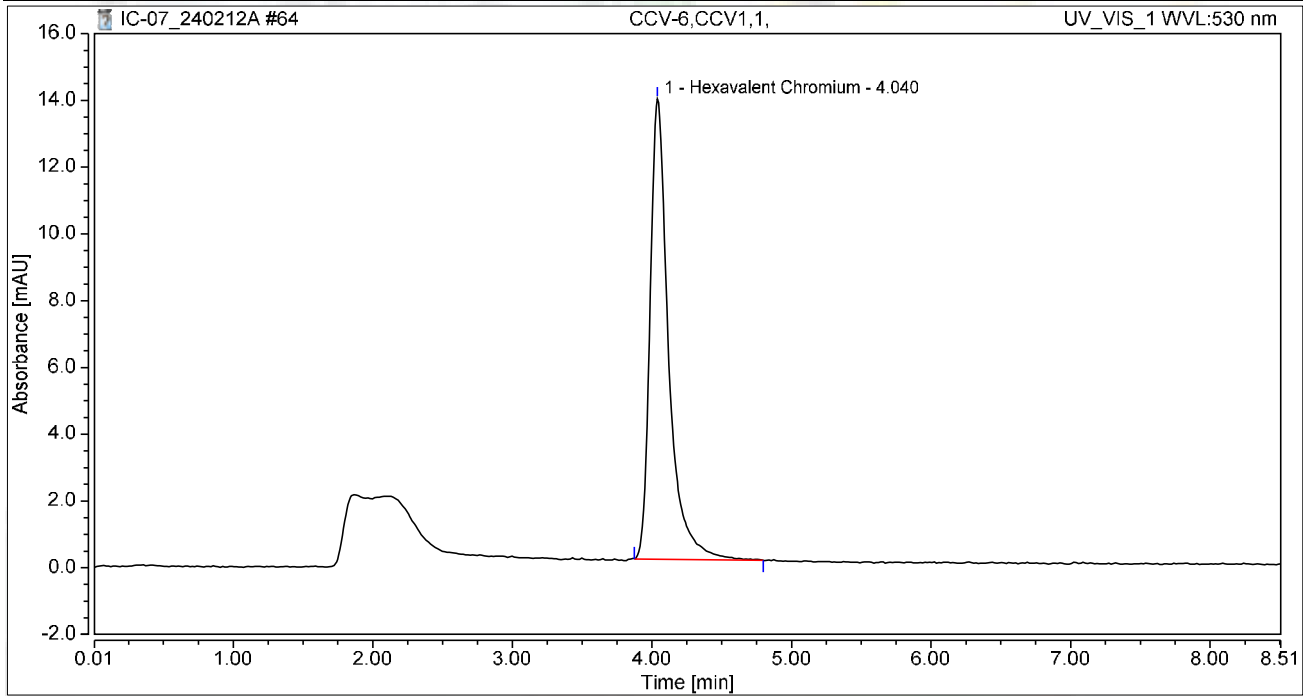
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.384	1.349	100.00	100.00	1.7875
Total:			0.384	1.349	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 18:52	Sample Weight:	1.0000

Chromatogram



Integration Results

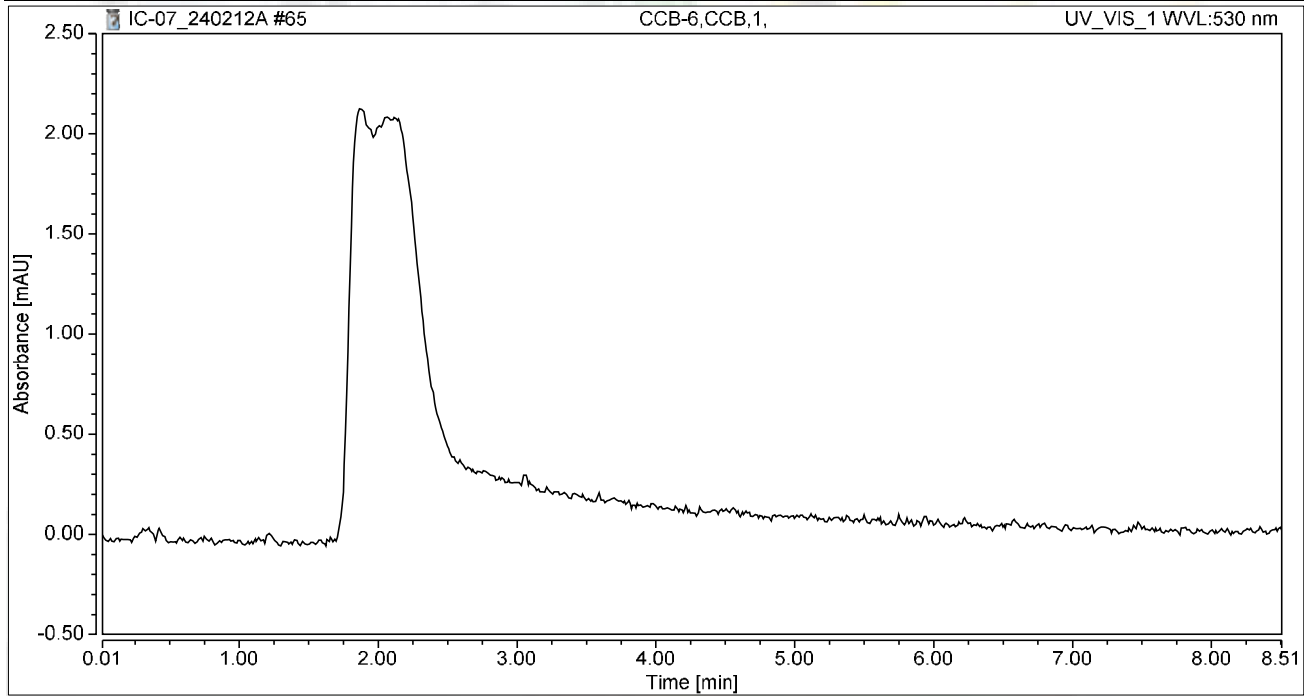
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.040	2.124	13.792	100.00	100.00	9.8739
Total:			2.124	13.792	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 19:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

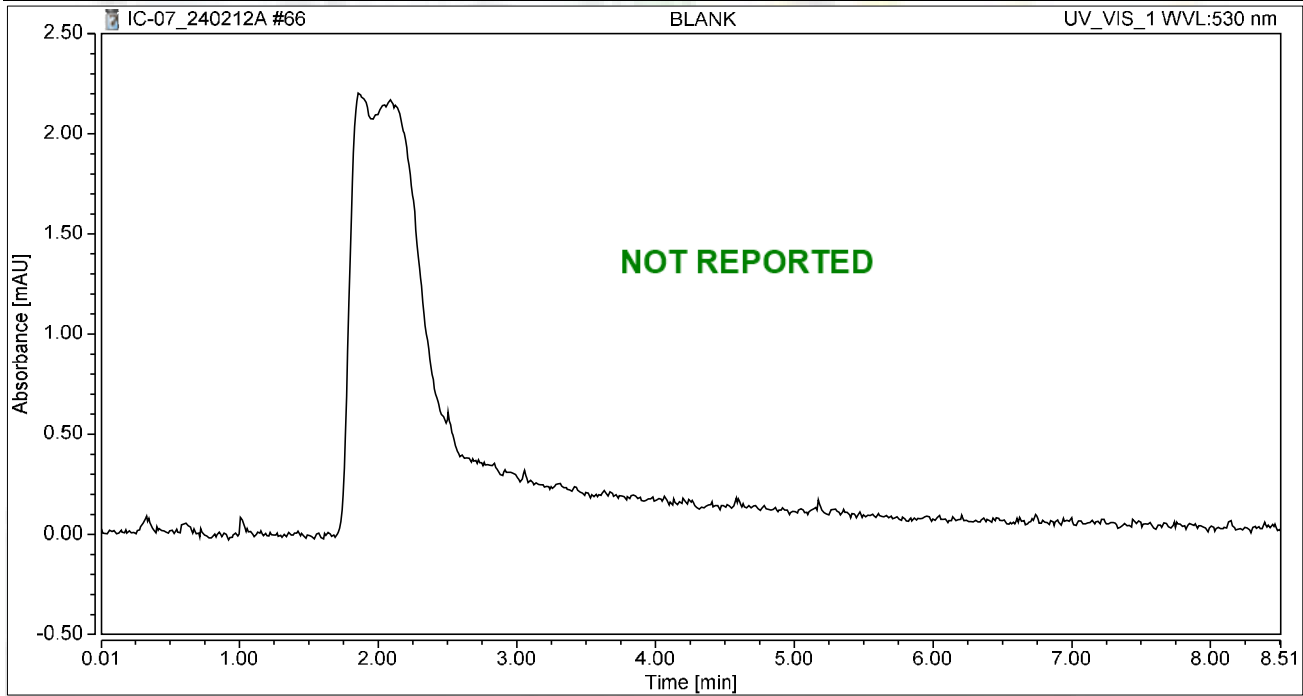
jrb 2/20/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Feb/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

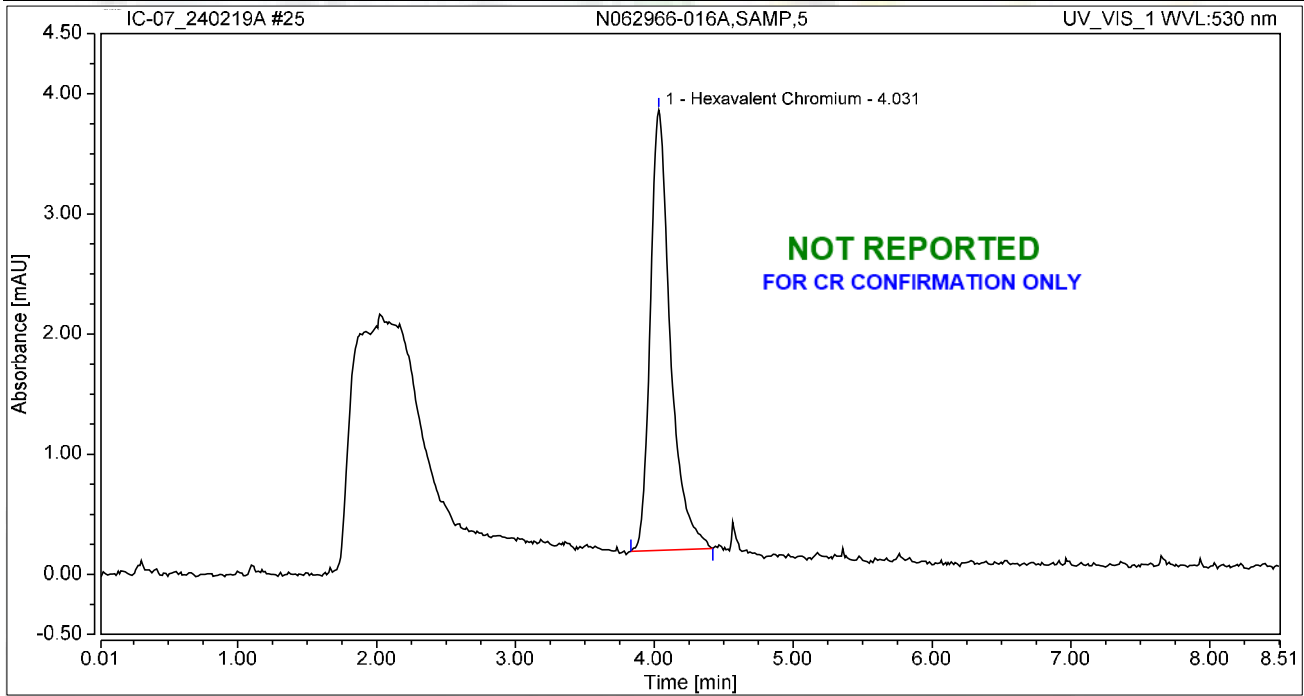
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-016A,SAMP,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 15:57	Sample Weight:	1.0000

Chromatogram



Integration Results

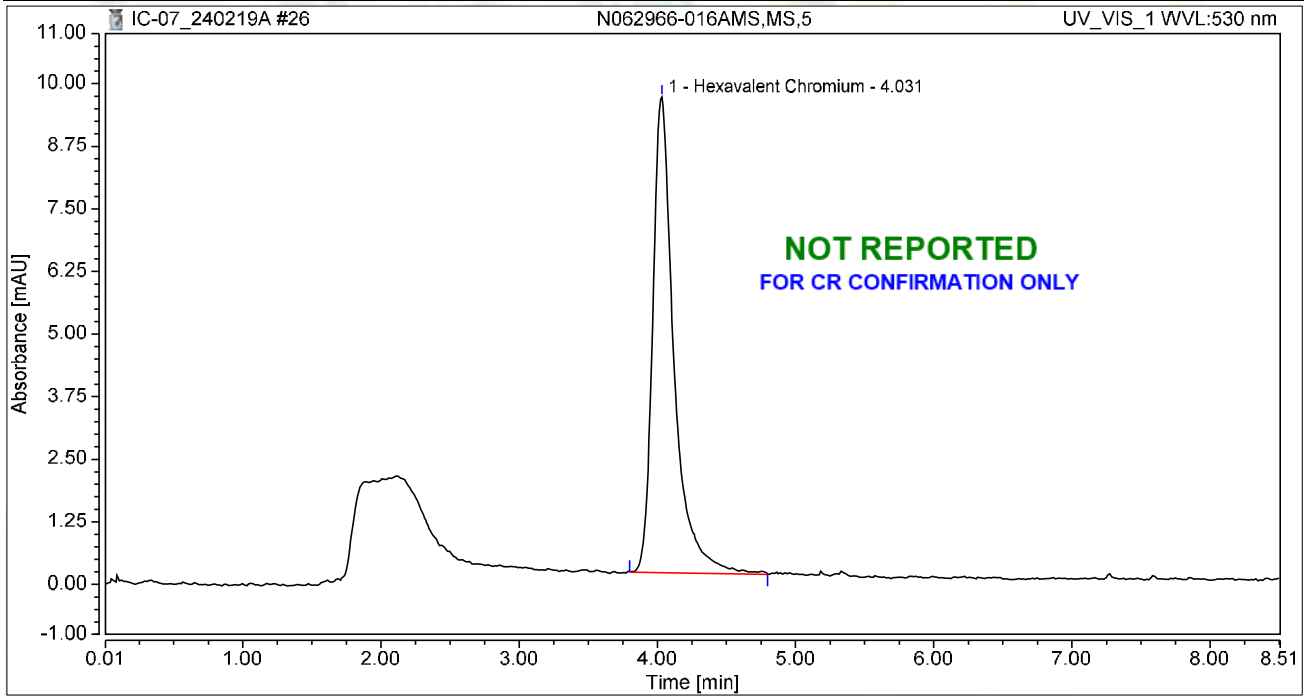
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	0.615	3.666	100.00	100.00	2.8588
Total:			0.615	3.666	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-016AMS,MS,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

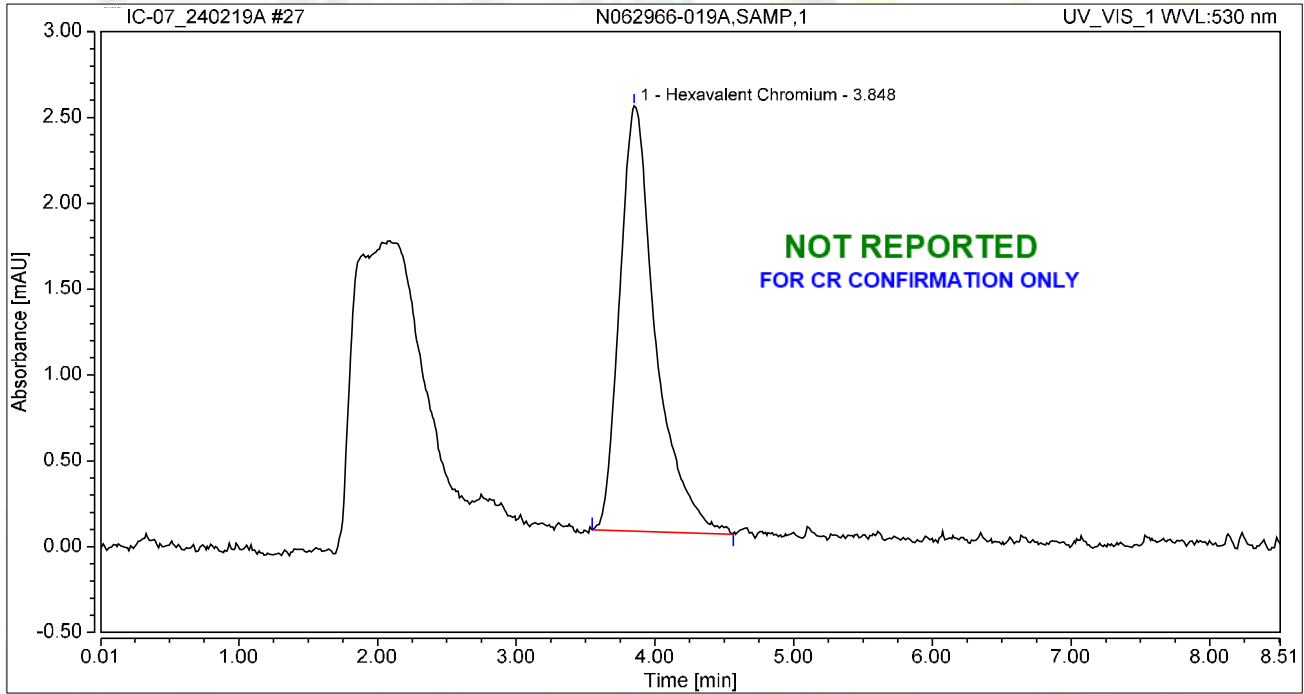
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	4.031	1.693	9.494	100.00	100.00	7.8705
Total:			1.693	9.494	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

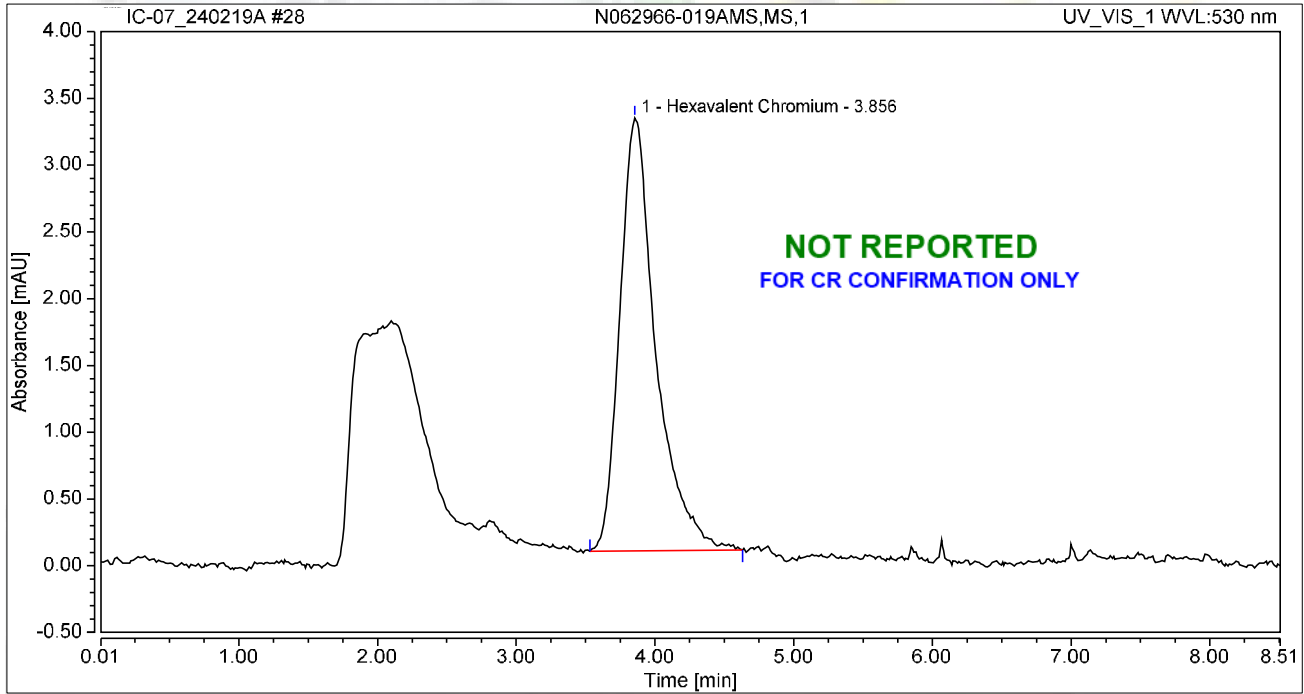
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.848	0.744	2.476	100.00	100.00	3.4565
Total:			0.744	2.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 16:26	Sample Weight:	1.0000

Chromatogram

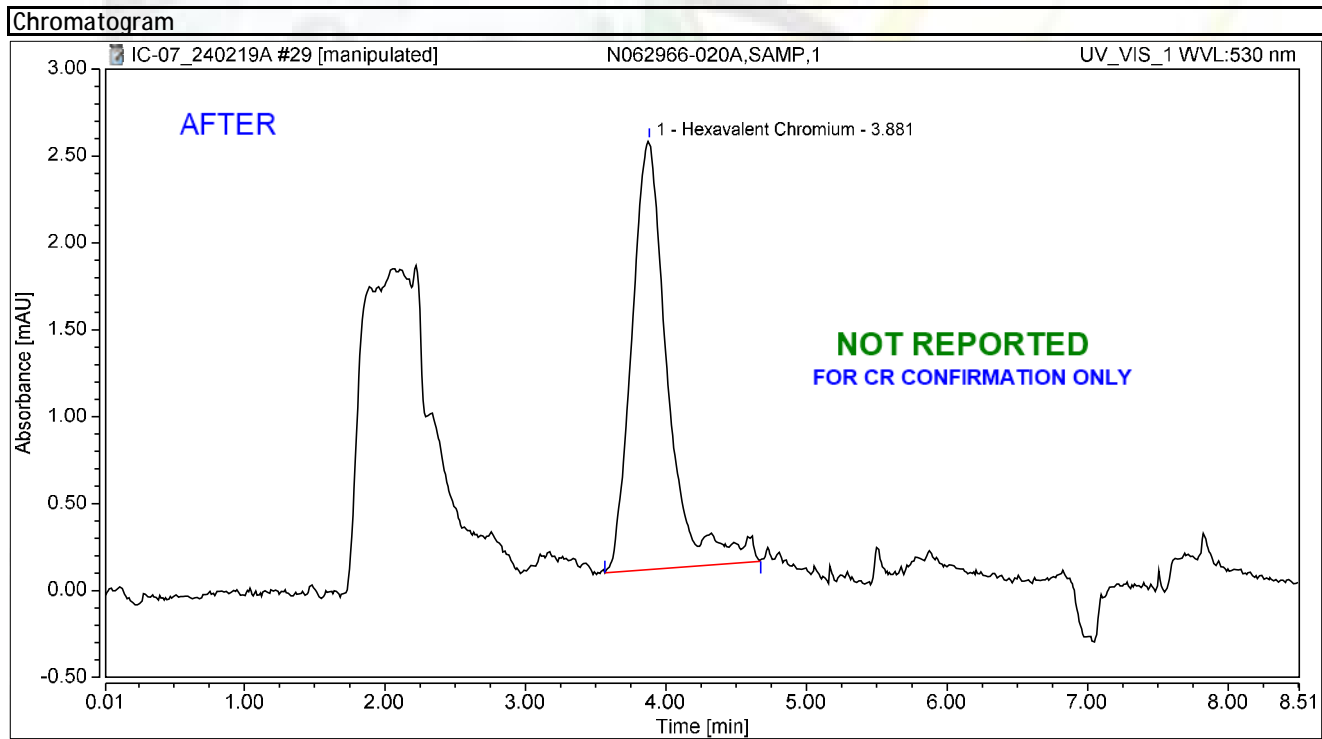


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.976	3.245	100.00	100.00	4.5364
Total:			0.976	3.245	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N062966-020A,SAMP,1	Run Time (min): 8.49
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	19/Feb/24 16:35	Sample Weight: 1.0000



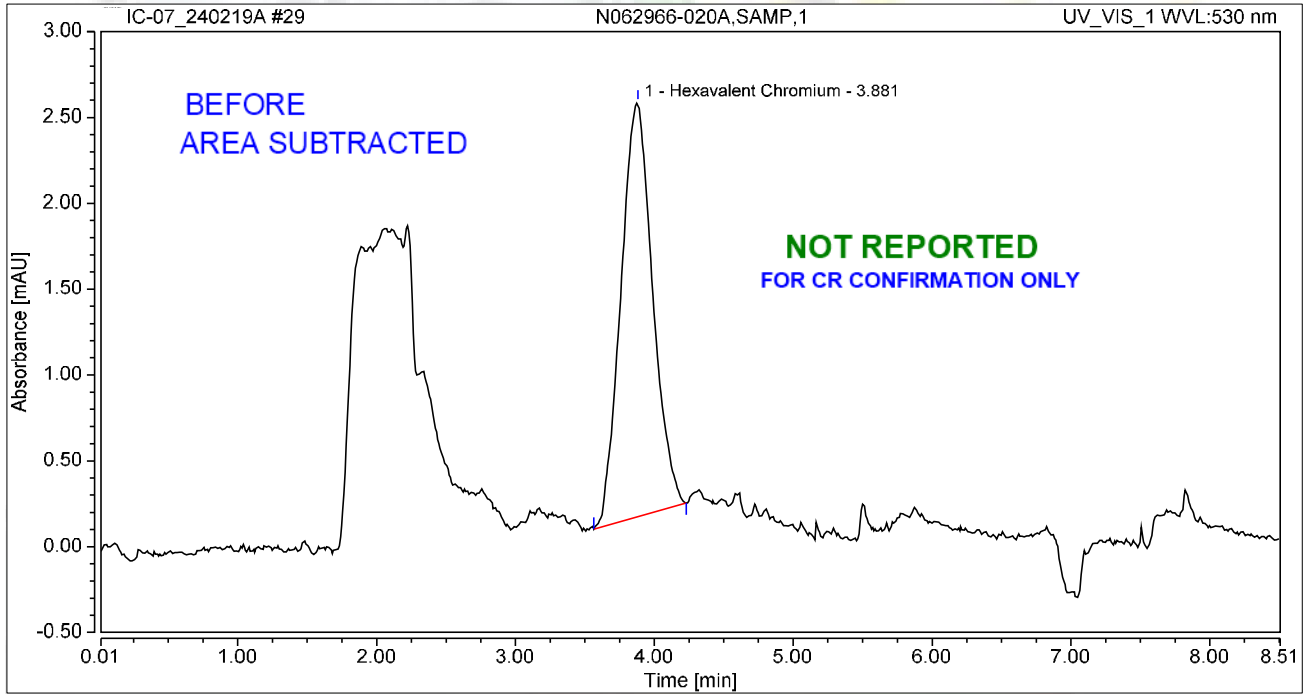
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.727	2.469	100.00	100.00	3.3817
Total:			0.727	2.469	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-020A,SAMP,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

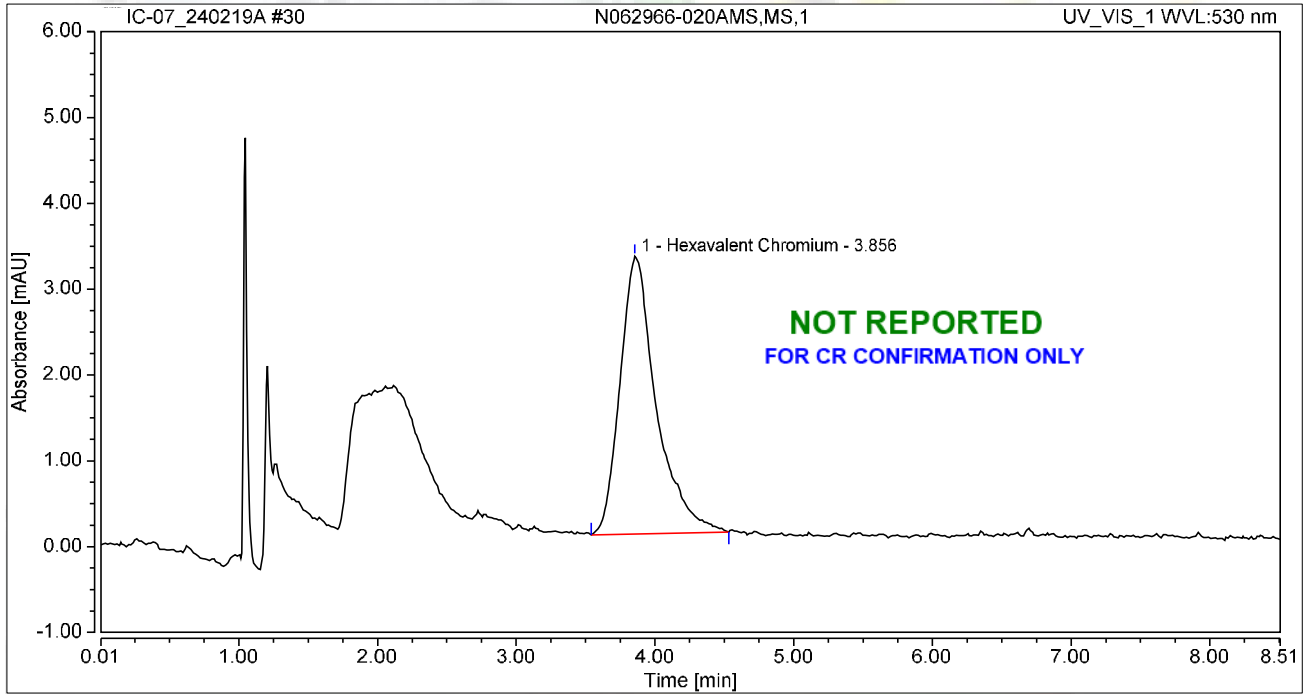
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.881	0.639	2.415	100.00	100.00	2.9702
Total:			0.639	2.415	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N062966-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	240205_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	19/Feb/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	3.856	0.978	3.236	100.00	100.00	4.5457
Total:			0.978	3.236	100.00	100.00	

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R181327
 ASSET #: N062966

Instrument ID: IC-08
 Analyst: RBA
 Date Analyzed: 2/8/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Detection of Sulfate in CCB1 was >1/2PQL. However, N062966 samples were >5X the CCB detection

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 2/20/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R181338
ASSET #: N062966

Instrument ID: IC-09
Analyst: RBA
Date Analyzed: 2/8/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 JRB 2/14/2024

Date:

Date:

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N062966-008B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.0998 * 10 \\ &= 0.998\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 1.0$$

Reviewed by:

d/Rocha 2/25/2024

ANALYSIS RUN LOG



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ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

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Sequence: IC-08_240124A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 25

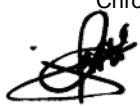
Created: 1/24/2024 9:39:27 AM by IC-05
Last Update: 1/24/2024 11:49:06 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240124	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240124	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240124	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240124	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240124	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240124	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240124	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240124	Finished
10	MB-H2O,MBLK,1	Unknown	11	1000.0	Anions Default	EPA 300_0_240124	Finished
11	LCS-H2O,LCS,1	Unknown	12	1000.0	Anions Default	EPA 300_0_240124	Finished
12	N062498-007A,SAMP,5	Unknown	13	1000.0	Anions Default	EPA 300_0_240124	Finished
13	N062498-007ADUP,DUP,5	Unknown	14	1000.0	Anions Default	EPA 300_0_240124	Finished
14	N062498-007AMS,MS,5	Unknown	15	1000.0	Anions Default	EPA 300_0_240124	Finished
15	N062498-007AMSD,MSD,5	Unknown	16	1000.0	Anions Default	EPA 300_0_240124	Finished
16	LCS-2,LCS,1	Unknown	17	1000.0	Anions Default	EPA 300_0_240124	Finished
17	MB-2,MBLK,1	Unknown	18	1000.0	Anions Default	EPA 300_0_240124	Finished
18	N062498-007A,SAMP,5	Unknown	19	1000.0	Anions Default	EPA 300_0_240124	Finished
19	N062498-007ADUP,DUP,5	Unknown	20	1000.0	Anions Default	EPA 300_0_240124	Finished
20	CCV-1,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240124	Finished
21	CCB-1,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240124	Finished
22	N062498-007AMS,MS,5	Unknown	23	1000.0	Anions Default	EPA 300_0_240124	Finished
23	N062498-007AMSD,MSD,5	Unknown	24	1000.0	Anions Default	EPA 300_0_240124	Finished
24	CCV-2,CCV,1	Unknown	33	1000.0	Anions Default	EPA 300_0_240124	Finished
25	CCB-2,CCB,1	Unknown	34	1000.0	Anions Default	EPA 300_0_240124	Finished

reviewed by:  1/31/2024

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



1/24/2024

IC8 RBA 1/24/2024 5:54:53 PM

Sequence: IC-08_240124A
Operator: IC-05

Page 2 of 2
Printed: 1/24/2024 5:54:19 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 25

Created: 1/24/2024 9:39:27 AM by IC-05
Last Update: 1/24/2024 11:49:06 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/24/2024 9:41:36 AM	BLANK
2	Std - 0	1/24/2024 9:56:54 AM	IBLANK
3	Std - 1	1/24/2024 10:32:56 AM	STD-LOW
4	Std - 2	1/24/2024 10:48:14 AM	STD
5	Std - 3	1/24/2024 11:03:32 AM	STD
6	Std - 4	1/24/2024 11:18:50 AM	STD
7	Std - 5	1/24/2024 11:34:08 AM	STD-HIGH
8	ICV,ICV,1	1/24/2024 11:49:26 AM	ICV, IWST-240123B
9	ICB,ICB,1	1/24/2024 12:04:44 PM	CCB
10	MB-H2O,MBLK,1	1/24/2024 12:20:02 PM	MB
11	LCS-H2O,LCS,1	1/24/2024 12:35:19 PM	LCS, IWST-240123B
12	N062498-007A,SAMP,5	1/24/2024 12:50:38 PM	SAMP,2>10mL,
13	N062498-007ADUP,DUP,5	1/24/2024 1:05:56 PM	DUP,2>10mL,
14	N062498-007AMS,MS,5	1/24/2024 1:21:14 PM	MS,2>10mL,
15	N062498-007AMSD,MSD,5	1/24/2024 1:36:33 PM	MSD,2>10mL,
16	LCS-2,LCS,1	1/24/2024 1:51:51 PM	LCS, IWST-240123B
17	MB-2,MBLK,1	1/24/2024 2:07:09 PM	MB
18	N062498-007A,SAMP,5	1/24/2024 2:22:27 PM	SAMP,2>10mL,
19	N062498-007ADUP,DUP,5	1/24/2024 2:37:45 PM	DUP,2>10mL,
20	CCV-1,CCV,1	1/24/2024 2:53:03 PM	CCV, IWST-240123A
21	CCB-1,CCB,1	1/24/2024 3:08:21 PM	CCB
22	N062498-007AMS,MS,5	1/24/2024 3:23:40 PM	MS,2>10mL,
23	N062498-007AMSD,MSD,5	1/24/2024 3:38:58 PM	MSD,2>10mL,
24	CCV-2,CCV,1	1/24/2024 3:54:16 PM	CCV, IWST-240123A
25	CCB-2,CCB,1	1/24/2024 4:09:34 PM	CCB

Sequence: IC-08_240208A
Operator: IC-05

Page 1 of 2
Printed: 2/8/2024 4:30:35 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 34

Created: 2/7/2024 1:03:01 PM by IC-05
Last Update: 2/8/2024 11:14:19 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240124	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240124	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240124	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240124	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240124	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240124	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240124	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240124	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240124	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240124	Finished
13	N062966-017B,SAMP,50	Unknown	1	1000.0	Anions Default	EPA 300_0_240124	Finished
14	N062966-017BMS,MS,50	Unknown	2	1000.0	Anions Default	EPA 300_0_240124	Finished
15	N062966-017BMSD,MSD,50	Unknown	3	1000.0	Anions Default	EPA 300_0_240124	Finished
16	N062966-010B,SAMP,50	Unknown	4	1000.0	Anions Default	EPA 300_0_240124	Finished
17	N062966-010BDUP,DUP,50	Unknown	5	1000.0	Anions Default	EPA 300_0_240124	Finished
18	N062966-010BMS,MS,50	Unknown	6	1000.0	Anions Default	EPA 300_0_240124	Finished
19	N062966-003B,SAMP,100	Unknown	7	1000.0	Anions Default	EPA 300_0_240124	Finished
20	N062966-005B,SAMP,100	Unknown	8	1000.0	Anions Default	EPA 300_0_240124	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240124	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240124	Finished
23	N062966-008B,SAMP,100	Unknown	11	1000.0	Anions Default	EPA 300_0_240124	Finished
24	N062966-009B,SAMP,100	Unknown	12	1000.0	Anions Default	EPA 300_0_240124	Finished
25	N062966-012B,SAMP,50	Unknown	13	1000.0	Anions Default	EPA 300_0_240124	Finished
26	N062966-013B,SAMP,50	Unknown	14	1000.0	Anions Default	EPA 300_0_240124	Finished
27	N062966-014B,SAMP,50	Unknown	15	1000.0	Anions Default	EPA 300_0_240124	Finished
28	N062966-015B,SAMP,50	Unknown	16	1000.0	Anions Default	EPA 300_0_240124	Finished
29	N062966-016B,SAMP,50	Unknown	17	1000.0	Anions Default	EPA 300_0_240124	Finished
30	N062966-018B,SAMP,50	Unknown	18	1000.0	Anions Default	EPA 300_0_240124	Finished
31	N062966-019B,SAMP,50	Unknown	19	1000.0	Anions Default	EPA 300_0_240124	Finished
32	N062966-020B,SAMP,50	Unknown	20	1000.0	Anions Default	EPA 300_0_240124	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions Default	EPA 300_0_240124	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions Default	EPA 300_0_240124	Finished

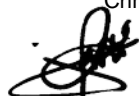
reviewed by:  2/11/2024

Processed by:

Chromleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)

IC8 RBA 2/8/2024 4:31:16 PM

424

 2/8/2024

Sequence: IC-08_240208A
Operator: IC-05

Page 2 of 2
Printed: 2/8/2024 4:30:35 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 34

Created: 2/7/2024 1:03:01 PM by IC-05
Last Update: 2/8/2024 11:14:19 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/24/2024 9:41:36 AM	BLANK
2	Std - 0	1/24/2024 9:56:54 AM	IBLANK
3	Std - 1	1/24/2024 10:32:56 AM	STD-LOW
4	Std - 2	1/24/2024 10:48:14 AM	STD
5	Std - 3	1/24/2024 11:03:32 AM	STD
6	Std - 4	1/24/2024 11:18:50 AM	STD
7	Std - 5	1/24/2024 11:34:08 AM	STD-HIGH
8	BLANK	2/8/2024 7:25:49 AM	BLANK
9	CCV-1,CCV,1	2/8/2024 7:41:06 AM	CCV, IWST-240208A
10	CCB-1,CCB,1	2/8/2024 7:56:24 AM	CCB
11	MB-H2O,MBLK,1	2/8/2024 8:11:43 AM	MB
12	LCS-H2O,LCS,1	2/8/2024 8:27:00 AM	LCS, IWST-240208B
13	N062966-017B,SAMP,50	2/8/2024 10:41:50 AM	SAMP,0.2>10mL,
14	N062966-017BMS,MS,50	2/8/2024 10:57:08 AM	MS,0.2>10mL,
15	N062966-017BMSD,MSD,50	2/8/2024 11:12:26 AM	MSD,0.2>10mL,
16	N062966-010B,SAMP,50	2/8/2024 11:27:44 AM	SAMP,0.2>10mL,
17	N062966-010BDUP,DUP,50	2/8/2024 11:43:02 AM	DUP,0.2>10mL,
18	N062966-010BMS,MS,50	2/8/2024 11:58:20 AM	MS,0.2>10mL,
19	N062966-003B,SAMP,100	2/8/2024 12:13:38 PM	SAMP,0.1>10mL,
20	N062966-005B,SAMP,100	2/8/2024 12:28:57 PM	SAMP,0.1>10mL,
21	CCV-2,CCV,1	2/8/2024 12:44:15 PM	CCV, IWST-240208A
22	CCB-2,CCB,1	2/8/2024 12:59:33 PM	CCB
23	N062966-008B,SAMP,100	2/8/2024 1:14:51 PM	SAMP,0.1>10mL,
24	N062966-009B,SAMP,100	2/8/2024 1:30:09 PM	SAMP,0.1>10mL,
25	N062966-012B,SAMP,50	2/8/2024 1:45:27 PM	SAMP,0.2>10mL,
26	N062966-013B,SAMP,50	2/8/2024 2:00:46 PM	SAMP,0.2>10mL,
27	N062966-014B,SAMP,50	2/8/2024 2:16:03 PM	SAMP,0.2>10mL,
28	N062966-015B,SAMP,50	2/8/2024 2:31:21 PM	SAMP,0.2>10mL,
29	N062966-016B,SAMP,50	2/8/2024 2:46:40 PM	SAMP,0.2>10mL,
30	N062966-018B,SAMP,50	2/8/2024 3:01:58 PM	SAMP,0.2>10mL,
31	N062966-019B,SAMP,50	2/8/2024 3:17:16 PM	SAMP,0.2>10mL,
32	N062966-020B,SAMP,50	2/8/2024 3:32:35 PM	SAMP,0.2>10mL,
33	CCV-3,CCV,1	2/8/2024 3:47:53 PM	CCV, IWST-240208A
34	CCB-3,CCB,1	2/8/2024 4:03:11 PM	CCB

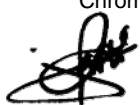
Sequence: IC-09_240123A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 40
Created: 1/23/2024 10:31:24 AM by IC-05
Last Update: 1/23/2024 3:11:46 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	MB-H2O,MBLK,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	LCS-H2O,LCS,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	N062306-006A,SAMP,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062306-020A,SAMP,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062306-008A,SAMP,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062306-025A,SAMP,1	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062306-006A,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062306-006A,SAMP,50	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062306-020A,SAMP,5	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062306-025ADUP,DUP,1	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	CCV-1,CCV,1	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCB-1,CCB,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	N062306-008A,SAMP,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062306-008AMS,MS,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
24	N062306-008AMSD,MSD,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
25	N062306-006ADUP,DUP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240123A	Finished
26	N062306-006AMS,MS,5	Unknown	18	1000.0	Anions_Default	EPA 300_0_240123A	Finished
27	N062306-006AMSD,MSD,5	Unknown	19	1000.0	Anions_Default	EPA 300_0_240123A	Finished
28	N062306-006ADUP,DUP,50	Unknown	20	1000.0	Anions_Default	EPA 300_0_240123A	Finished
29	N062306-006AMS,MS,50	Unknown	21	1000.0	Anions_Default	EPA 300_0_240123A	Finished
30	N062306-006AMSD,MSD,50	Unknown	22	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062306-020ADUP,DUP,5	Unknown	23	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	CCV-2,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCB-2,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	N062306-020AMS,MS,5	Unknown	26	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062306-020AMSD,MSD,5	Unknown	27	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062306-025AMS,MS,1	Unknown	28	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	N062306-025AMSD,MSD,1	Unknown	29	1000.0	Anions_Default	EPA 300_0_240123A	Finished
38	N062306-008ADUP,DUP,1	Unknown	30	1000.0	Anions_Default	EPA 300_0_240123A	Finished
39	CCV-3,CCV,1	Unknown	31	1000.0	Anions_Default	EPA 300_0_240123A	Finished
40	CCB-3,CCB,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Processed by:

reviewed by: *Mamy* 2/1/2024



1/23/2024

IC9 RBA 1/23/2024 9:49:16 PM

426

Sequence: IC-09_240123A
Operator: IC-05

Page 2 of 2
Printed: 1/23/2024 9:48:09 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 40
Created: 1/23/2024 10:31:24 AM by IC-05
Last Update: 1/23/2024 3:11:46 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/23/2024 10:32:41 AM	BLANK
2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	ICV,ICV,1	1/23/2024 12:23:59 PM	ICV, IWST-240123B
9	ICB,ICB,1	1/23/2024 12:39:55 PM	CCB
10	MB-H2O,MBLK,1	1/23/2024 1:31:28 PM	MB
11	LCS-H2O,LCS,1	1/23/2024 1:46:47 PM	LCS IWST-240123B
12	N062306-006A,SAMP,1	1/23/2024 2:02:42 PM	SAMP,10mL,
13	N062306-020A,SAMP,1	1/23/2024 2:18:38 PM	SAMP,10mL,
14	N062306-008A,SAMP,1	1/23/2024 2:34:34 PM	SAMP,10mL,
15	N062306-025A,SAMP,1	1/23/2024 2:50:30 PM	SAMP,10mL,
16	N062306-006A,SAMP,5	1/23/2024 3:06:26 PM	SAMP,2>10mL,
17	N062306-006A,SAMP,50	1/23/2024 3:22:22 PM	SAMP,0.2>10mL,
18	N062306-020A,SAMP,5	1/23/2024 3:38:18 PM	SAMP,2>10mL,
19	N062306-025ADUP,DUP,1	1/23/2024 3:54:13 PM	DUP,10mL,
20	CCV-1,CCV,1	1/23/2024 4:10:09 PM	CCV, IWST-240123A
21	CCB-1,CCB,1	1/23/2024 4:26:05 PM	CCB
22	N062306-008A,SAMP,1	1/23/2024 4:42:01 PM	SAMP,10mL,
23	N062306-008AMS,MS,1	1/23/2024 4:57:56 PM	MS,5>10mL,
24	N062306-008AMSD,MSD,1	1/23/2024 5:13:52 PM	MSD,5>10mL,
25	N062306-006ADUP,DUP,5	1/23/2024 5:29:48 PM	DUP,2>10mL,
26	N062306-006AMS,MS,5	1/23/2024 5:45:44 PM	MS,2>10mL,
27	N062306-006AMSD,MSD,5	1/23/2024 6:01:39 PM	MSD,2>10mL,
28	N062306-006ADUP,DUP,50	1/23/2024 6:17:35 PM	DUP,0.2>10mL,
29	N062306-006AMS,MS,50	1/23/2024 6:33:31 PM	MS,0.2>10mL,
30	N062306-006AMSD,MSD,50	1/23/2024 6:49:27 PM	MSD,0.2>10mL,
31	N062306-020ADUP,DUP,5	1/23/2024 7:05:23 PM	DUP,2>10mL,
32	CCV-2,CCV,1	1/23/2024 7:21:19 PM	CCV, IWST-240123A
33	CCB-2,CCB,1	1/23/2024 7:37:15 PM	CCB
34	N062306-020AMS,MS,5	1/23/2024 7:53:11 PM	MS,2>10mL,
35	N062306-020AMSD,MSD,5	1/23/2024 8:09:07 PM	MSD,2>10mL,
36	N062306-025AMS,MS,1	1/23/2024 8:25:03 PM	MS,10mL,
37	N062306-025AMSD,MSD,1	1/23/2024 8:40:59 PM	MSD,10mL,
38	N062306-008ADUP,DUP,1	1/23/2024 8:56:55 PM	DUP,10mL,
39	CCV-3,CCV,1	1/23/2024 9:12:51 PM	CCV, IWST-240123A
40	CCB-3,CCB,1	1/23/2024 9:28:47 PM	CCB

Sequence: IC-09_240208A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 45
Created: 2/7/2024 1:04:13 PM by IC-05
(Modified, not saved)

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
13	N062966-017B,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
14	N062966-017BMS,MS,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
15	N062966-017BMSD,MSD,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
16	N062966-001B,SAMP,5	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
17	N062966-001BMS,MS,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
18	N062966-001BMSD,MSD,5	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
19	N062966-003B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
20	N062966-003BDUP,DUP,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
23	N062966-005B,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
24	N062966-006B,SAMP,2	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
25	N062966-008B,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished
26	N062966-009B,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
27	N062966-010B,SAMP,10	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
28	N062966-012B,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
29	N062975-001A,SAMP,5	Unknown	1	1000.0	Anions_Default	EPA 300_0_240123A	Finished
30	N062966-013B,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240123A	Finished
31	N062966-015B,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240123A	Finished
32	N062966-016B,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240123A	Finished
33	CCV-3,CCV,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240123A	Finished
34	CCB-3,CCB,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240123A	Finished
35	N062966-018B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240123A	Finished
36	N062966-019B,SAMP,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240123A	Finished
37	N062966-020B,SAMP,10	Unknown	9	1000.0	Anions_Default	EPA 300_0_240123A	Finished
38	N062948-001C,SAMP,5	Unknown	10	1000.0	Anions_Default	EPA 300_0_240123A	Finished
39	N062948-003C,SAMP,5	Unknown	11	1000.0	Anions_Default	EPA 300_0_240123A	Finished
40	N062975-001ADUP,DUP,5	Unknown	12	1000.0	Anions_Default	EPA 300_0_240123A	Finished
41	N062975-001AMS,MS,5	Unknown	13	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Processed by:

2/8/2024

reviewed by: 2/12/2024

Sequence: IC-09_240208A
Operator: IC-05

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Printed: 2/8/2024 7:12:01 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 45
Created: 2/7/2024 1:04:13 PM by IC-05
(Modified, not saved)

No.	Name	Inj. Date/Time	Comment
1	BLANK	1/23/2024 10:32:41 AM	BLANK
2	Std - 0	1/23/2024 10:48:23 AM	IBLANK
3	Std - 1	1/23/2024 11:04:19 AM	STD-LOW
4	Std - 2	1/23/2024 11:20:16 AM	STD
5	Std - 3	1/23/2024 11:36:11 AM	STD
6	Std - 4	1/23/2024 11:52:07 AM	STD
7	Std - 5	1/23/2024 12:08:03 PM	STD-HIGH
8	BLANK	2/8/2024 7:26:15 AM	BLANK 240208A
9	CCV-1,CCV,1	2/8/2024 7:41:34 AM	CCV, IWST- 240131A
10	CCB-1,CCB,1	2/8/2024 7:57:31 AM	CCB
11	MB-H2O,MBLK,1	2/8/2024 8:13:26 AM	MB 240208B
12	LCS-H2O,LCS,1	2/8/2024 8:29:21 AM	LCS IWST- 240131B
13	N062966-017B,SAMP,10	2/8/2024 10:07:00 AM	SAMP,1>10mL,
14	N062966-017BMS,MS,10	2/8/2024 10:22:18 AM	MS,1>10mL,
15	N062966-017BMSD,MSD,10	2/8/2024 10:41:47 AM	MSD,1>10mL,
16	N062966-001B,SAMP,5	2/8/2024 10:57:41 AM	SAMP,2>10mL,
17	N062966-001BMS,MS,5	2/8/2024 11:17:35 AM	MS,2>10mL,
18	N062966-001BMSD,MSD,5	2/8/2024 11:33:30 AM	MSD,2>10mL,
19	N062966-003B,SAMP,10	2/8/2024 11:49:27 AM	SAMP,1>10mL,
20	N062966-003BDUP,DUP,10	2/8/2024 12:05:22 PM	DUP,1>10mL, 240208A
21	CCV-2,CCV,1	2/8/2024 12:21:18 PM	CCV, IWST- 240131A
22	CCB-2,CCB,1	2/8/2024 12:37:14 PM	CCB
23	N062966-005B,SAMP,10	2/8/2024 12:53:10 PM	SAMP,1>10mL,
24	N062966-006B,SAMP,2	2/8/2024 1:09:06 PM	SAMP,5>10mL,
25	N062966-008B,SAMP,10	2/8/2024 1:25:01 PM	SAMP,1>10mL,
26	N062966-009B,SAMP,10	2/8/2024 1:40:57 PM	SAMP,1>10mL,
27	N062966-010B,SAMP,10	2/8/2024 1:56:52 PM	SAMP,1>10mL,
28	N062966-012B,SAMP,10	2/8/2024 2:12:48 PM	SAMP,1>10mL,
29	N062975-001A,SAMP,5	2/8/2024 2:30:34 PM	SAMP,2>10mL,
30	N062966-013B,SAMP,10	2/8/2024 2:45:53 PM	SAMP,1>10mL,
31	N062966-015B,SAMP,10	2/8/2024 3:01:48 PM	SAMP,1>10mL,
32	N062966-016B,SAMP,10	2/8/2024 3:17:43 PM	SAMP,1>10mL, 240208A
33	CCV-3,CCV,1	2/8/2024 3:33:39 PM	CCV, IWST- 240131A
34	CCB-3,CCB,1	2/8/2024 3:49:34 PM	CCB
35	N062966-018B,SAMP,10	2/8/2024 4:05:31 PM	SAMP,1>10mL,
36	N062966-019B,SAMP,10	2/8/2024 4:21:26 PM	SAMP,1>10mL,
37	N062966-020B,SAMP,10	2/8/2024 4:37:22 PM	SAMP,1>10mL,
38	N062948-001C,SAMP,5	2/8/2024 4:53:18 PM	SAMP,2>10mL,
39	N062948-003C,SAMP,5	2/8/2024 5:09:14 PM	SAMP,2>10mL,
40	N062975-001ADUP,DUP,5	2/8/2024 5:25:10 PM	DUP,2>10mL,
41	N062975-001AMS,MS,5	2/8/2024 5:41:05 PM	MS,2>10mL,

Mocha 2/26/2024
for RBA



Sequence: IC-09_240208A
Operator: IC-05

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Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 45
Created: 2/7/2024 1:04:13 PM by IC-05
(Modified, not saved)

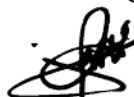
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N062975-001AMSD,MSD,5	Unknown	14	1000.0	Anions_Default	EPA 300_0_240123A	Finished
43	N062966-014B,SAMP,10	Unknown	15	1000.0	Anions_Default	EPA 300_0_240123A	Finished
44	CCV-4,CCV,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240123A	Finished
45	CCB-4,CCB,1	Unknown	17	1000.0	Anions_Default	EPA 300_0_240123A	Finished

Sequence: IC-09_240208A
Operator: IC-05

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Printed: 2/8/2024 7:12:01 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 45
Created: 2/7/2024 1:04:13 PM by IC-05
(Modified, not saved)

No.	Name	Inj. Date/Time	Comment
42	N062975-001AMSD,MSD,5	2/8/2024 5:57:02 PM	MSD,2>10mL,
43	N062966-014B,SAMP,10	2/8/2024 6:12:59 PM	SAMP,1>10mL, 240208A
44	CCV-4,CCV,1	2/8/2024 6:28:54 PM	CCV, IWST- 240131A
45	CCB-4,CCB,1	2/8/2024 6:44:50 PM	CCB



2/8/2024

IC9 RBA 2/8/2024 7:12:36 PM

dMocha 2/26/2024
for RBA
431

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE CONSTRUCTION INDUSTRY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: 09
~~IC-09~~
Date Calibrated: 1/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0190	0.0945	0.1921	0.4821	1.0068	1.000
Measured, in mg/L	0.000000	0.066800	0.254200	0.496300	1.215600	2.517200	
Relative Error (%RE)		33.6%		-0.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712E

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: IC-08
Date Calibrated: 1/24/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0468	0.1991	0.4062	1.0440	2.1777	1.000
Measured, in mg/L	0.000000	0.645000	2.037100	3.930800	9.761300	20.125900	
Relative Error (%RE)		29.0%		-1.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST230712G

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SERVICES • SURVEILLANCE • ENVIRONMENTAL • TECHNOLOGICAL

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ICV	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 1/24/2024	SeqNo: 5678260							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.088	0.50	4.000	0	102	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCV	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678262							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.986	0.50	4.000	0	99.7	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCV	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678274							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.960	0.50	4.000	0	99.0	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCV	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678286							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.950	0.50	4.000	0	98.7	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICV	SampType: ICV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: ICV	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 1/23/2024	SeqNo: 5679110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.273	0.050	1.250	0	102	90	110				

Sample ID: CCV-1	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: CCV	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679112							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.237	0.050	1.250	0	98.9	90	110				

Sample ID: CCV-2	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: CCV	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679124							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.232	0.050	1.250	0	98.6	90	110				

Sample ID: CCV-3	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: CCV	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679135							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.239	0.050	1.250	0	99.1	90	110				

Sample ID: CCV-4	SampType: CCV	TestCode: 300WLLNO3P	Units: mg/L	Prep Date:	RunNo: 181338						
Client ID: CCV	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679141							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.241	0.050	1.250	0	99.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: ICB	SampType: ICB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: ICB	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 1/24/2024	SeqNo: 5678261							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-1	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCB	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678263							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-2	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCB	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678275							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Sample ID: CCB-3	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 181327						
Client ID: CCB	Batch ID: R181327	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5678287							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate ND 0.50

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: ICB	SampType: ICB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 181338							
Client ID: ICB	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 1/23/2024	SeqNo: 5679111							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-1	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 181338							
Client ID: CCB	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679113							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-2	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 181338							
Client ID: CCB	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679125							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-3	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 181338							
Client ID: CCB	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID: CCB-4	SampType: CCB	TestCode: 300WLLNO3P Units: mg/L	Prep Date:	RunNo: 181338							
Client ID: CCB	Batch ID: R181338	TestNo: EPA 300.0	Analysis Date: 2/8/2024	SeqNo: 5679142							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: 09
~~IC-08~~

Analytical Sequence

Date Analyzed: 2/8/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 7.354	
CCV-1	Nitrate 7.284	
CCV-2	Nitrate 7.197	
CCV-3	Nitrate 7.227	
CCV-4	Nitrate 7.221	

Average 7.232

Applied RT Window 7.032 - 7.432

MB-R181338_NO3	Nitrate	N.A.	N.A.
LCS-R181338_NO3	Nitrate	7.304	PASS
N062966-017B	Nitrate	7.191	PASS
N062966-017BMS	Nitrate	7.191	PASS
N062966-017BMSD	Nitrate	7.174	PASS
N062966-001B	Nitrate	7.194	PASS
N062966-001BMS	Nitrate	7.197	PASS
N062966-001BMSD	Nitrate	7.197	PASS
N062966-003B	Nitrate	N.A.	N.A.
N062966-003BDUP	Nitrate	N.A.	N.A.
N062966-005B	Nitrate	N.A.	N.A.
N062966-006B	Nitrate	N.A.	N.A.
N062966-008B	Nitrate	7.237	PASS
N062966-009B	Nitrate	7.234	PASS
N062966-010B	Nitrate	N.A.	N.A.
N062966-012B	Nitrate	7.231	PASS
N062966-013B	Nitrate	N.A.	N.A.
N062966-015B	Nitrate	7.230	PASS
N062966-016B	Nitrate	N.A.	N.A.
N062966-018B	Nitrate	7.234	PASS
N062966-019B	Nitrate	N.A.	N.A.
N062966-020B	Nitrate	7.244	PASS
N062966-014B	Nitrate	7.227	PASS

Reviewed by:

d/Rocha 2/25/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: IC-08

Analytical Sequence

Date Analyzed: 2/8/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.334	
CCV-1	Sulfate	10.167	
CCV-2	Sulfate	10.137	
CCV-3	Sulfate	10.147	

Average 10.150

Applied RT Window 9.950 - 10.350

MB-R181327_SO4	Sulfate	N.A.	N.A.
LCS-R181327_SO4	Sulfate	10.167	PASS
N062966-017B	Sulfate	10.163	PASS
N062966-017BMS	Sulfate	10.140	PASS
N062966-017BMSD	Sulfate	10.210	PASS
N062966-010B	Sulfate	10.214	PASS
N062966-010BDUP	Sulfate	10.144	PASS
N062966-010BMS	Sulfate	10.124	PASS
N062966-003B	Sulfate	10.127	PASS
N062966-005B	Sulfate	10.147	PASS
N062966-008B	Sulfate	10.104	PASS
N062966-009B	Sulfate	10.110	PASS
N062966-012B	Sulfate	9.973	PASS
N062966-013B	Sulfate	10.123	PASS
N062966-014B	Sulfate	10.120	PASS
N062966-015B	Sulfate	10.130	PASS
N062966-016B	Sulfate	10.100	PASS
N062966-018B	Sulfate	10.170	PASS
N062966-019B	Sulfate	10.127	PASS
N062966-020B	Sulfate	10.147	PASS

Reviewed by:

d/Recha 2/25/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106695
 ASSET #: N062966

Instrument ID: ICP-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/9/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

RPD of Fe in N062966-017CMSD failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 02212024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL
CF = Conversion Factor from mg/L to ug/L, 1000

For Sample **N062966-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.08239 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 82.39$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 82$$

Reviewed by:

d/Rocha 2/27/2024

% RSD SUMMARY



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RSD SUMMARY: 240209A

Instrument ID: ICP-03

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	Fe	0	2.91	15	PASS
Standard1	ICAL	1	Fe	0.02	1.29	15	PASS
Standard2	ICAL	1	Fe	0.05	0.72	15	PASS
Standard3	ICAL	1	Fe	2	0.22	15	PASS
Standard4	ICAL	1	Fe	5	0.19	15	PASS
Standard5	ICAL	1	Fe	7.5	0.07	15	PASS
Standard6	ICAL	1	Fe	10	0.4	15	PASS
Standard7	ICAL	1	Fe	20	0.06	15	PASS
ICV	ICV	1	Fe	9.96	0.38	15	PASS
ICB	ICB	1	Fe	0	47.15	15	<PQL
LLICV1	CCV1	1	Fe	0.02	1.22	20	PASS
ICSA1	ICSA	1	Fe	15.38	29.66	15	NR!
ICSA1	ICSA	1	Fe	170.42	0.02	15	PASS
ICSAB1	ICSAB	1	Fe	173.31	0.04	15	PASS
RINSE	RINSE	1	Fe	0	56.08	15	<PQL
MB-106695	MBLK	1	Fe	0	262.65	15	<PQL
LCS-106695	LCS	1	Fe	0.1	0.73	15	PASS
N062966-001C	SAMP	1	Fe	0.08	1.2	15	PASS
N062966-001C	SAMP	5	Fe	0.02	3.92	15	PASS
N062966-001C-PS	PS	1	Fe	0.17	0.31	15	PASS
N062966-001CMS	MS	1	Fe	0.17	0.23	15	PASS
N062966-001CMSD	MSD	1	Fe	0.18	0.92	15	PASS
N062966-003C	SAMP	1	Fe	0.25	0.39	15	PASS
N062966-005C	SAMP	1	Fe	0.06	0.41	15	PASS
CCV1	CCV	1	Fe	10.08	0.31	15	PASS
CCB1	CCB	1	Fe	0	59	15	<PQL
N062966-006C	SAMP	1	Fe	1	0.14	15	PASS
N062966-008C	SAMP	1	Fe	0.05	1.05	15	PASS
N062966-009C	SAMP	1	Fe	0.02	3.92	15	PASS
N062966-010C	SAMP	1	Fe	0.02	3.05	15	PASS
N062966-012C	SAMP	1	Fe	0.04	1.84	15	PASS
N062966-013C	SAMP	1	Fe	0.03	4.86	15	PASS
N062966-014C	SAMP	1	Fe	0.03	1.13	15	PASS
N062966-015C	SAMP	1	Fe	0.06	1.06	15	PASS
N062966-016C	SAMP	1	Fe	0.06	1.91	15	PASS
N062966-017C	SAMP	1	Fe	0.02	3.35	15	PASS
CCV2	CCV	1	Fe	10.06	0.03	15	PASS
CCB2	CCB	1	Fe	0	54.15	15	<PQL
N062966-017C	SAMP	5	Fe	0	23.39	15	<PQL
N062966-017C-PS	PS	1	Fe	0.11	0.46	15	PASS
N062966-017CMS	MS	1	Fe	0.13	0.49	15	PASS
N062966-017CMSD	MSD	1	Fe	0.1	0.26	15	PASS

RSD SUMMARY: 240209A**Instrument ID: ICP-03**

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N062966-018C	SAMP	1	Fe	0.06	0.67	15	PASS
N062966-019C	SAMP	1	Fe	0.07	1.57	15	PASS
N062966-020C	SAMP	1	Fe	0.05	0.5	15	PASS
CCV3	CCV	1	Fe	10.05	0.08	15	PASS
CCB3	CCB	1	Fe	0	55.59	15	<PQL
ICSA2	ICSA	1	Fe	169.93	0.03	15	PASS
ICSAB2	ICSAB	1	Fe	173.31	0.03	15	PASS
RINSE	RINSE	1	Fe	0	23.48	15	<PQL
CCV4	CCV	1	Fe	10.1	0.33	15	PASS
CCB4	CCB	1	Fe	0	61.49	15	<PQL
CCV5	CCV	1	Fe	10.07	0.15	15	PASS
CCB5	CCB	1	Fe	0	53.83	15	<PQL
CCV6	CCV	1	Fe	10.1	0.25	15	PASS
CCB6	CCB	1	Fe	0	76.98	15	<PQL
CCV7	CCV	1	Fe	10.11	0.31	15	PASS
CCB7	CCB	1	Fe	0	38.95	15	<PQL
ICSA3	ICSA	1	Fe	169.53	0.03	15	PASS
ICSAB3	ICSAB	1	Fe	172.65	0.03	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240209A

Instrument ID: ICP-03

STANDARD CODE	
Standard1	MWST-240105M, 0.5<50mL
Standard2	MWST-240105N
Standard3	MWST-240105O, 5<50mL
Standard4	MWST-240105O,12.5<50mL
Standard5	MWST-240105O, 15<40mL
Standard6	MWST-240105O, 25<50mL
Standard7	MWST-240105O
ICV	MWST-240105AE
CCV	MWST-240105O, 25<50mL
ICSA/ICSAB	MWST-240105P / MWST-240105Q
Int. Std. (Y)	MWST-240105B
PS Spike	MWST-240105X / Y/ Z

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	02/09/2024	11:28:16 AM
2	Standard1	ICAL	1	02/09/2024	11:31:58 AM
3	Standard2	ICAL	1	02/09/2024	11:35:42 AM
4	Standard3	ICAL	1	02/09/2024	11:39:26 AM
5	Standard4	ICAL	1	02/09/2024	11:42:40 AM
6	Standard5	ICAL	1	02/09/2024	11:45:55 AM
7	Standard6	ICAL	1	02/09/2024	11:49:07 AM
8	Standard7	ICAL	1	02/09/2024	11:52:20 AM
310	ICV	ICV	1	02/09/2024	11:56:27 AM
1	ICB	ICB	1	02/09/2024	11:59:46 AM
2	LLICV1	CCV1	1	02/09/2024	12:03:28 PM
9	ICSA1	ICSA	1	02/09/2024	12:07:11 PM
9	ICSA1	ICSA	1	02/09/2024	12:11:50 PM
10	ICSAB1	ICSAB	1	02/09/2024	12:16:31 PM
299	RINSE	RINSE	1	02/09/2024	12:26:04 PM
131	MB-106695	MBLK	1	02/09/2024	12:29:52 PM
132	LCS-106695	LCS	1	02/09/2024	12:37:05 PM
133	N062966-001C	SAMP	1	02/09/2024	12:40:50 PM
134	N062966-001C	SAMP	5	02/09/2024	12:45:10 PM
135	N062966-001C-PS	PS	1	02/09/2024	12:49:26 PM
136	N062966-001CMS	MS	1	02/09/2024	12:53:46 PM
137	N062966-001CMSD	MSD	1	02/09/2024	12:58:05 PM
138	N062966-003C	SAMP	1	02/09/2024	01:01:25 PM
139	N062966-005C	SAMP	1	02/09/2024	01:06:25 PM
7	CCV1	CCV	1	02/09/2024	01:11:44 PM
1	CCB1	CCB	1	02/09/2024	01:14:58 PM
140	N062966-006C	SAMP	1	02/09/2024	01:18:40 PM
141	N062966-008C	SAMP	1	02/09/2024	01:23:32 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
142	N062966-009C	SAMP	1	02/09/2024	01:28:53 PM
143	N062966-010C	SAMP	1	02/09/2024	01:33:42 PM
144	N062966-012C	SAMP	1	02/09/2024	01:39:04 PM
145	N062966-013C	SAMP	1	02/09/2024	01:44:34 PM
146	N062966-014C	SAMP	1	02/09/2024	01:50:03 PM
147	N062966-015C	SAMP	1	02/09/2024	01:55:25 PM
148	N062966-016C	SAMP	1	02/09/2024	02:00:55 PM
149	N062966-017C	SAMP	1	02/09/2024	02:06:24 PM
7	CCV2	CCV	1	02/09/2024	02:11:47 PM
1	CCB2	CCB	1	02/09/2024	02:15:01 PM
150	N062966-017C	SAMP	5	02/09/2024	02:18:43 PM
151	N062966-017C-PS	PS	1	02/09/2024	02:23:03 PM
152	N062966-017CMS	MS	1	02/09/2024	02:28:25 PM
153	N062966-017CMSD	MSD	1	02/09/2024	02:33:55 PM
154	N062966-018C	SAMP	1	02/09/2024	02:39:17 PM
155	N062966-019C	SAMP	1	02/09/2024	02:44:47 PM
156	N062966-020C	SAMP	1	02/09/2024	02:50:17 PM
7	CCV3	CCV	1	02/09/2024	02:55:39 PM
1	CCB3	CCB	1	02/09/2024	02:58:57 PM
9	ICSA2	ICSA	1	02/09/2024	03:02:39 PM
10	ICSAB2	ICSAB	1	02/09/2024	03:07:20 PM
299	RINSE	RINSE	1	02/09/2024	03:17:55 PM
157	MB-106713	MBLK	1	02/09/2024	03:21:44 PM
158	LCS-106713	LCS	1	02/09/2024	03:28:29 PM
159	N063001-001C	SAMP	1	02/09/2024	03:32:15 PM
160	N063001-001C	SAMP	5	02/09/2024	03:37:08 PM
161	N063001-001C-PS	PS	1	02/09/2024	03:40:55 PM
162	N063001-001CMS	MS	1	02/09/2024	03:45:48 PM
163	N063001-001CMSD	MSD	1	02/09/2024	03:50:40 PM
164	N063001-003C	SAMP	1	02/09/2024	03:55:32 PM
165	N063001-004C	SAMP	1	02/09/2024	04:01:01 PM
7	CCV4	CCV	1	02/09/2024	04:06:31 PM
1	CCB4	CCB	1	02/09/2024	04:09:45 PM
166	N063001-005C	SAMP	1	02/09/2024	04:13:28 PM
167	N063001-006C	SAMP	1	02/09/2024	04:18:27 PM
168	N063001-007C	SAMP	1	02/09/2024	04:23:28 PM
169	N063001-008C	SAMP	1	02/09/2024	04:26:45 PM
170	N063001-009C	SAMP	1	02/09/2024	04:30:32 PM
171	N063001-010C	SAMP	1	02/09/2024	04:35:54 PM
172	N063001-011C	SAMP	1	02/09/2024	04:41:17 PM
173	N063001-012C	SAMP	1	02/09/2024	04:46:47 PM
174	N063001-014C	SAMP	1	02/09/2024	04:52:17 PM
175	N063001-015C	SAMP	1	02/09/2024	04:57:40 PM
7	CCV5	CCV	1	02/09/2024	05:03:02 PM
1	CCB5	CCB	1	02/09/2024	05:06:15 PM
176	N063001-016C	SAMP	1	02/09/2024	05:09:58 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
177	N063001-017C	SAMP	1	02/09/2024	05:13:17 PM
178	N063001-018C	SAMP	1	02/09/2024	05:18:10 PM
179	N063001-020C	SAMP	1	02/09/2024	05:22:29 PM
180	N063001-021C	SAMP	1	02/09/2024	05:28:00 PM
181	MB-106715	MBLK	1	02/09/2024	05:34:39 PM
182	LCS-106715	LCS	1	02/09/2024	05:38:25 PM
183	N062975-001B	SAMP	1	02/09/2024	05:41:43 PM
184	N062975-001B	SAMP	5	02/09/2024	05:47:13 PM
185	N062975-001B-PS	PS	1	02/09/2024	05:51:33 PM
7	CCV6	CCV	1	02/09/2024	05:56:34 PM
1	CCB6	CCB	1	02/09/2024	05:59:48 PM
186	N062975-001B-MS1	MS	1	02/09/2024	06:03:19 PM
187	N062975-001B-MSD1	MSD	1	02/09/2024	06:07:50 PM
7	CCV7	CCV	1	02/09/2024	06:12:21 PM
1	CCB7	CCB	1	02/09/2024	06:15:36 PM
9	ICSA3	ICSA	1	02/09/2024	06:19:18 PM
10	ICSAB3	ICSAB	1	02/09/2024	06:24:00 PM

SAMPLE PREPARATION LOG



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“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/8/2024 10:49:50 AM

Reviewed/ Date: *M/Rocha* 2/27/2024

Page: 1 of 2

Prep End Date: 2/8/2024 3:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106695 Prep Code:3010_W DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-02-27

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106695	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106695	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062966-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-001CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-001CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15257	HYDROCHLORIC ACID
16149	NITIRC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A	LCS,MS,MSD	0.5
MWST-240105Y	ICP Solution B	LCS,MS,MSD	0.5
MWST-240105Z	ICP Solution C	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/8/2024 10:49:50 AM

Reviewed/ Date: Alrocha 2/27/2024

Page: 2 of 2

Prep End Date: 2/8/2024 3:00:00 PM

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106695 Prep Code: 3010_W_DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-02-27

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062966-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-019C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-020C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
15257	HYDROCHLORIC ACID
16149	NITIRC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240105X	ICP Solution A	LCS,MS,MSD	0.5
MWST-240105Y	ICP Solution B	LCS,MS,MSD	0.5
MWST-240105Z	ICP Solution C	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 240209A

Instrument ID: ICP-03

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Units	R
Iron								
CalBlk	02/09/2024	11:28:16 AM	Fe	273.952	111	0.00	mg/L	
Standard1	02/09/2024	11:31:58 AM	Fe	273.952	286	0.02	mg/L	
Standard2	02/09/2024	11:35:42 AM	Fe	273.952	821	0.05	mg/L	
Standard3	02/09/2024	11:39:26 AM	Fe	273.952	28227	2.0	mg/L	
Standard4	02/09/2024	11:42:40 AM	Fe	273.952	69278	5.0	mg/L	
Standard5	02/09/2024	11:45:55 AM	Fe	273.952	103437	7.5	mg/L	
Standard6	02/09/2024	11:49:07 AM	Fe	273.952	134080	10.0	mg/L	
Standard7	02/09/2024	11:52:20 AM	Fe	273.952	268427	20.0	mg/L	0.9999

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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“Serving Clients with Passion and Professionalism”

462

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICV	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682827							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9958.604	20	10000	0	99.6	90	110				

Sample ID LLICV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ZZZZZZ	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682829							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.942	20	20.00	0	105	80	120				

Sample ID CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682842							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10076.370	20	10000	0	101	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682854							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10064.256	20	10000	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10050.661	20	10000	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682876						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10101.809	20	10000	0	101	90	110
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Sample ID CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10069.470	20	10000	0	101	90	110
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Sample ID CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682900						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10100.347	20	10000	0	101	90	110
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Sample ID CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCV	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682904						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10104.539	20	10000	0	101	90	110
------	-----------	----	-------	---	-----	----	-----

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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“Serving Clients with Passion and Professionalism”

465

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICB	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682828						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.010 20

Sample ID CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.797 20

Sample ID CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.435 20

Sample ID CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.695 20

Sample ID CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.708 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682889	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron 1.428 20

Sample ID CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682901	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron 1.755 20

Sample ID CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377
Client ID: CCB	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682905	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron 2.219 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSA	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	532447.065	50	500000	0	106	80	120				
Calcium	442717.192	500	500000	0	88.5	80	120				
Iron	170417.362	20	200000	0	85.2	80	120				
Magnesium	445851.418	100	500000	0	89.2	80	120				

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSA B	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	541598.830	50	500000	0	108	80	120				
Calcium	449679.649	500	500000	0	89.9	80	120				
Iron	173311.058	20	200000	0	86.7	80	120				
Magnesium	455777.877	100	500000	0	91.2	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSA	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	555798.829	50	500000	0	111	80	120				
Calcium	441013.423	500	500000	0	88.2	80	120				
Iron	169930.783	20	200000	0	85.0	80	120				
Magnesium	442702.175	100	500000	0	88.5	80	120				

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSA B	Batch ID: R181377	TestNo: EPA 6010B		Analysis Date: 2/9/2024	SeqNo: 5682866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	565706.449	50	500000	0	113	80	120				
----------	------------	----	--------	---	-----	----	-----	--	--	--	--

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSAB	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682866							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	448924.911	500	500000	0	89.8	80	120				
Iron	173312.632	20	200000	0	86.7	80	120				
Magnesium	453769.290	100	500000	0	90.8	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSA	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682906							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	549691.054	50	500000	0	110	80	120				
Calcium	439033.112	500	500000	0	87.8	80	120				
Iron	169528.348	20	200000	0	84.8	80	120				
Magnesium	442435.194	100	500000	0	88.5	80	120				

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ICSAB	Batch ID: R181377	TestNo: EPA 6010B	Analysis Date: 2/9/2024	SeqNo: 5682907							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	564649.425	50	500000	0	113	80	120				
Calcium	446437.756	500	500000	0	89.3	80	120				
Iron	172648.079	20	200000	0	86.3	80	120				
Magnesium	452935.274	100	500000	0	90.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



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NEVADA
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INTERNAL STANDARD: 240209A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	101.13	65-125	PASS
Standard2	ICAL	1	1.01	101.02	65-125	PASS
Standard3	ICAL	1	1.01	101.19	65-125	PASS
Standard4	ICAL	1	1	99.53	65-125	PASS
Standard5	ICAL	1	0.99	98.93	65-125	PASS
Standard6	ICAL	1	0.98	97.64	65-125	PASS
Standard7	ICAL	1	0.96	96.42	65-125	PASS
ICV	ICV	1	0.98	97.69	65-125	PASS
ICB	ICB	1	1.01	100.99	65-125	PASS
LLICV1	CCV1	1	1.02	101.7	65-125	PASS
ICSA1	ICSA	1	0	0.01	65-125	NR!
ICSA1	ICSA	1	0.83	83.36	65-125	PASS
ICSAB1	ICSAB	1	0.82	81.69	65-125	PASS
RINSE	RINSE	1	1.05	105.45	65-125	PASS
MB-106695	MBLK	1	0.99	99.33	65-125	PASS
LCS-106695	LCS	1	0.93	92.65	65-125	PASS
N062966-001C	SAMP	1	0.93	92.73	65-125	PASS
N062966-001C	SAMP	5	0.96	96.26	65-125	PASS
N062966-001C-PS	PS	1	0.89	89.04	65-125	PASS
N062966-001CMS	MS	1	0.92	92.21	65-125	PASS
N062966-001CMSD	MSD	1	0.92	92.43	65-125	PASS
N062966-003C	SAMP	1	0.74	74.11	65-125	PASS
N062966-005C	SAMP	1	0.73	73.27	65-125	PASS
CCV1	CCV	1	0.97	97.36	65-125	PASS
CCB1	CCB	1	1.01	100.9	65-125	PASS
N062966-006C	SAMP	1	0.88	87.89	65-125	PASS
N062966-008C	SAMP	1	0.71	70.82	65-125	PASS
N062966-009C	SAMP	1	0.72	71.78	65-125	PASS
N062966-010C	SAMP	1	0.76	76.31	65-125	PASS
N062966-012C	SAMP	1	0.78	78.27	65-125	PASS
N062966-013C	SAMP	1	0.77	77.09	65-125	PASS
N062966-014C	SAMP	1	0.76	76.15	65-125	PASS
N062966-015C	SAMP	1	0.79	79.12	65-125	PASS
N062966-016C	SAMP	1	0.77	76.63	65-125	PASS
N062966-017C	SAMP	1	0.75	75.47	65-125	PASS
CCV2	CCV	1	0.98	97.66	65-125	PASS
CCB2	CCB	1	1.01	100.91	65-125	PASS
N062966-017C	SAMP	5	0.87	87.36	65-125	PASS
N062966-017C-PS	PS	1	0.74	73.6	65-125	PASS
N062966-017CMS	MS	1	0.77	77.15	65-125	PASS

INTERNAL STANDARD: 240209A

Instrument ID: ICP-03

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N062966-017CMSD	MSD	1	0.79	78.59	65-125	PASS
N062966-018C	SAMP	1	0.77	77.36	65-125	PASS
N062966-019C	SAMP	1	0.76	76.39	65-125	PASS
N062966-020C	SAMP	1	0.78	77.88	65-125	PASS
CCV3	CCV	1	0.98	97.87	65-125	PASS
CCB3	CCB	1	1.01	100.99	65-125	PASS
ICSA2	ICSA	1	0.82	82.37	65-125	PASS
ICSAB2	ICSAB	1	0.82	82.23	65-125	PASS
RINSE	RINSE	1	1.04	103.92	65-125	PASS
CCV4	CCV	1	0.97	97.26	65-125	PASS
CCB4	CCB	1	1.01	100.84	65-125	PASS
CCV5	CCV	1	0.97	96.65	65-125	PASS
CCB5	CCB	1	1	100.28	65-125	PASS
CCV6	CCV	1	0.97	96.71	65-125	PASS
CCB6	CCB	1	1	100.4	65-125	PASS
CCV7	CCV	1	0.97	96.71	65-125	PASS
CCB7	CCB	1	1	100.17	65-125	PASS
ICSA3	ICSA	1	0.81	81.3	65-125	PASS
ICSAB3	ICSAB	1	0.81	81.01	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062966
Test Method: EPA 6010B
Analysis Date: 2/9/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106695

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062966-001C DT 5x	Iron	Fe	µg/L	88.34793	NA	82.39183	7.23%	10

Reviewed by:

d/rocha 2/27/2024

Note: NA - Not Applicable

02/26/24 22:30

DT_EPA 6010B_N062966_106695

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N062966
Test Method: EPA 6010B
Analysis Date: 2/9/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106695

Instrument ID: ICP-03
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062966-017C DT 5x	Iron	Fe	µg/L	0	NA	20.88067	100.00%	10

Reviewed by:

dRecha 2/27/2024

Note: NA - Not Applicable

02/26/24 22:31

DT_EPA 6010B_N062966_106695

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID N062966-001C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ZZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5682837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 174.597 20 100.0 82.39 92.2 80 120

Sample ID N062966-017C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 181377						
Client ID: ZZZZZZ	Batch ID: 106695	TestNo: EPA 6010B EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5682857							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 112.775 20 100.0 20.88 91.9 80 120

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

MDL STUDY



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LOD & PQL VERIFICATION

Analytical Method: EPA 6010B	Matrix: WATER
Digestion Method: EPA 3010A	Units : ppm
Digestion Date: 5/7/23; 5/8/23; 5/10/23	
Analysis Date: 5/7-23/23	
Instrument Name: ICP-03	
Analyst/Technician: Nancy Sibucac / Diane Jetajobe	

Analyte	MDL	LOD	ACTUAL LOD	PQL	Actual PQL	%REC
Beryllium	0.000076	0.0005	0.00047	0.001	0.00098	98
Boron	0.0086	0.05	0.04899	0.1	0.089	89
Magnesium	0.0057	0.05	0.05152	0.1	0.10	102
Silicon	0.012	0.01	0.01312	0.02	0.023	113
Chromium	0.00051	0.0005	0.00056	0.001	0.0010	102
Manganese	0.00032	0.01	0.00534	0.01	0.011	110
Iron	0.0022	0.01	0.01180	0.02	0.021	106
Cobalt	0.001	0.0013	0.00096	0.0025	0.0025	100
Nickel	0.0034	0.0025	0.00417	0.005	0.0055	110
Copper	0.0042	0.0025	0.00434	0.005	0.0044	87
Zinc	0.0007	0.005	0.00624	0.01	0.011	106
Arsenic	0.0042	0.005	0.00461	0.01	0.010	104
Selenium	0.008	0.005	0.00829	0.01	0.010	102
Molybdenum	0.0013	0.0025	0.00307	0.005	0.0053	106
Silver	0.0024	0.0013	0.00419	0.0025	0.0033	134
Cadmium	0.0016	0.0013	0.00180	0.0025	0.0026	102
Tin	0.0076	0.005	0.00563	0.010	0.0099	99
Antimony	0.0038	0.005	0.00307	0.01	0.0096	96
Barium	0.0002	0.0013	0.00124	0.0025	0.0026	104
Thallium	0.0021	0.0075	0.00656	0.015	0.015	101
Lead	0.0039	0.0025	0.00337	0.005	0.0047	94
Calcium	0.011	0.1	0.11963	0.2	0.23	113
Vanadium	0.00017	0.0013	0.00126	0.0025	0.0025	100
Aluminum	0.0089	0.025	0.02576	0.05	0.048	95
Titanium	0.004	0.005	0.00612	0.01	0.01	101



Method Detection Limit

Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Analyte	MDLs	MDLb	MDL
Beryllium	0.00015	0.00017	0.00017
Boron	0.03512	0.01726	0.03512
Magnesium	0.01676	0.00844	0.01676
Silicon	0.01615	0.00393	0.01615
Chromium	0.00138	0.00027	0.00138
Manganese	0.00267	0.00038	0.00267
Iron	0.01271	0.00241	0.01271
Cobalt	0.00077	0.00066	0.00077
Nickel	0.00430	0.00185	0.00430
Copper	0.00123	0.00129	0.00129
Zinc	0.00818	0.00113	0.00818
Arsenic	0.00799	0.00899	0.00899
Selenium	0.00935	0.00839	0.00935
Molybdenum	0.00324	0.00168	0.00324
Silver	0.00098	0.00117	0.00117
Cadmium	0.00046	0.00030	0.00046
Tin	0.00933	0.00433	0.00933
Antimony	0.00740	0.00842	0.00842
Barium	0.00050	0.00067	0.00067
Thallium	0.00843	0.00635	0.00843
Lead	0.00190	0.00105	0.00190
Calcium	0.18093	0.14705	0.18093
Vanadium	0.00027	0.00053	0.00053
Aluminum	0.02034	0.01114	0.02034
Titanium	0.00192	0.00025	0.00192
Potassium	0.07902	0.13882	0.13882
Sodium	0.06553	0.34000	0.34000
Strontium	0.00306	-0.00043	0.00306



Method Name: Metals by ICP
Method Number: EPA 6010B / 200.7
Analysis Date: 9/14-10/20/20
Instrument Name: ICP-02
Analyst/Technician: MEI/DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	MDLs	AMT SPIKED(ppm)	PQL
Beryllium	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0010	0.00005	0.00015	0.0010	0.0010
Boron	0.1341	0.1177	0.1120	0.1196	0.1101	0.1179	0.0972	0.01119	0.03512	0.1000	0.1000
Magnesium	0.1003	0.1017	0.1022	0.1030	0.1022	0.1147	0.0982	0.00534	0.01676	0.1000	0.1000
Silicon	0.0165	0.0162	0.0212	0.0143	0.0145	0.0083	0.0061	0.00514	0.01615	0.0200	0.0200
Chromium	0.0012	0.0011	0.0011	0.0006	0.0009	0.0016	0.0019	0.00044	0.00138	0.0010	0.0010
Manganese	0.0114	0.0114	0.0119	0.0104	0.0132	0.0115	0.0112	0.00085	0.00267	0.0100	0.0100
Iron	0.0257	0.0250	0.0279	0.0234	0.0224	0.0346	0.0254	0.00405	0.01271	0.0200	0.0200
Cobalt	0.0025	0.0023	0.0023	0.0028	0.0024	0.0029	0.0027	0.00024	0.00077	0.0025	0.0025
Nickel	0.0062	0.0062	0.0060	0.0065	0.0061	0.0071	0.0099	0.00137	0.00430	0.0050	0.0050
Copper	0.0055	0.0049	0.0049	0.0054	0.0053	0.0055	0.0060	0.00039	0.00123	0.0050	0.0050
Zinc	0.0118	0.0115	0.0118	0.0111	0.0178	0.0103	0.0102	0.00261	0.00818	0.0100	0.0100
Arsenic	0.0172	0.0132	0.0120	0.0136	0.0145	0.0118	0.0089	0.00254	0.00799	0.0100	0.0100
Selenium	0.0070	0.0076	0.0074	0.0114	0.0074	0.0138	0.0131	0.00298	0.00935	0.0100	0.0100
Molybdenum	0.0064	0.0054	0.0043	0.0070	0.0055	0.0073	0.0057	0.00103	0.00324	0.0050	0.0050
Silver	0.0022	0.0024	0.0023	0.0019	0.0018	0.0027	0.0025	0.00031	0.00098	0.0025	0.0025
Cadmium	0.0030	0.0030	0.0030	0.0028	0.0027	0.0028	0.0027	0.00015	0.00046	0.0025	0.0025
Tin	0.0117	0.0114	0.0120	0.0103	0.0168	0.0076	0.0085	0.00297	0.00933	0.0100	0.0100
Antimony	0.0098	0.0115	0.0098	0.0142	0.0121	0.0163	0.0115	0.00236	0.00740	0.0100	0.0100
Barium	0.0031	0.0030	0.0030	0.0033	0.0030	0.0032	0.0034	0.00016	0.00050	0.0025	0.0025
Thallium	0.0134	0.0103	0.0095	0.0149	0.0153	0.0159	0.0159	0.00268	0.00843	0.0150	0.0150
Lead	0.0046	0.0055	0.0055	0.0058	0.0061	0.0063	0.0050	0.00061	0.00190	0.0050	0.0050
Calcium	0.2701	0.2125	0.2303	0.2106	0.1214	0.1336	0.1343	0.05762	0.18093	0.2000	0.2000
Vanadium	0.0025	0.0024	0.0024	0.0025	0.0026	0.0026	0.0026	0.00009	0.00027	0.0025	0.0025
Aluminum	0.0627	0.0613	0.0653	0.0533	0.0535	0.0698	0.0544	0.00648	0.02034	0.0500	0.0500
Titanium	0.0097	0.0097	0.0096	0.0096	0.0094	0.0108	0.0108	0.00061	0.00192	0.0100	0.0100

BLANK

Analyte	1	2	3	4	5	6	7	SD	MDLb	AMT SPIKED(ppm)	PQL
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00003	0.00017	0.0000	0.001
Boron	0.004	0.002	-0.002	-0.008	-0.003	0.008	0.003	0.00530	0.01726	0.0020	0.100
Magnesium	0.003	0.002	0.001	0.002	-0.002	0.003	0.004	0.00203	0.00844	0.0020	0.100
Silicon	-0.006	-0.006	-0.006	-0.002	-0.007	-0.011	-0.013	0.00358	0.00393	0.0004	0.020
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00027	0.0000	0.001
Manganese	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00010	0.00038	0.0002	0.010
Iron	0.001	0.000	-0.001	0.001	0.000	0.000	-0.001	0.00072	0.00241	0.0004	0.020
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00023	0.00066	0.0001	0.003
Nickel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.00038	0.00185	0.0001	0.005
Copper	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00029	0.00129	0.0001	0.005
Zinc	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.00032	0.00113	0.0002	0.010
Arsenic	0.004	0.004	0.004	0.001	0.001	-0.002	0.000	0.00229	0.00899	0.0002	0.010
Selenium	-0.005	-0.005	-0.005	-0.001	-0.001	0.001	0.003	0.00325	0.00839	0.0002	0.010
Molybdenum	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.00045	0.00168	0.0001	0.005
Silver	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00038	0.00117	0.0001	0.003
Cadmium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.00030	0.0001	0.003
Tin	0.000	0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.00160	0.00433	0.0002	0.010
Antimony	-0.004	0.000	0.000	0.004	-0.001	0.002	0.001	0.00260	0.00842	0.0002	0.010
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00013	0.00067	0.0001	0.003
Thallium	-0.004	-0.003	-0.005	-0.002	0.000	0.001	0.001	0.00259	0.00635	0.0003	0.015
Lead	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.00030	0.00105	0.0001	0.005
Calcium	0.080	0.004	0.031	0.008	-0.065	0.002	-0.031	0.04553	0.14705	0.0040	0.200
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00016	0.00053	0.0001	0.003
Aluminum	0.004	0.005	0.002	0.000	-0.004	-0.002	-0.003	0.00353	0.01114	0.0010	0.050
Titanium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.00025	0.0002	0.010



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EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106696
 ASSET #: N062966

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/8/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)		X			X	
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X			X	
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?	X			X		
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.		X			X	
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Ba in N062966-001CMSD failed, low bias.
 % Rec of Ba in LCS failed, high bias. LCS is for re run
 % RSD of Se in N062966-014C/ 017C failed. For re run
 Mn is OLR in N062966-001C-PS/MS/ MSD / 006C/009C/012C/013C/019C/020C. For dilution
 Cr is OLR in N062966-014C/ N062966-017C-PS/MS/ MSD. For dilution
 N062966-016C (first run) = 19 ug/L ; confirmation: 18 ug/L ; N062966-016A (218.6) = 15 ug/L ; confirmation: 17 ug/L
 N062966-019C (first run) = 5.4 ug/L ; confirmation: 5.2 ug/L ; N062966-019A (218.6) = 3.6 ug/L ; confirmation: 4.8 ug/L
 N062966-020C (first run) = 5.4 ug/L ; confirmation: 5.2 ug/L ; N062966-020A (218.6) = 3.5 ug/L ; confirmation: 4.8 ug/L

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/21/2024

Date: -
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106696
 ASSET #: N062966

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/9/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.	X			X		
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Ba re run for LCS
 Cr and Mn dilution
 % Rec of Mn and Cr in N062966-001CMS/MSD failed, low bias. However, LCS passed criteria
 RPD of Mn in N062966-001CMSD failed. However, LCS passed criteria
 Dilution test for Mn failed. However, PS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/21/2024

Date: -
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 106696
 ASSET #: N062966

Instrument ID: ICPMS-03
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 2/12/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 Se re run for N062966-014C/017C

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer LG 2/21/2024

Date: —
 Date: —

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Chromium concentration, in ug/L in the original sample as follows:

$$\text{Chromium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N062966-014C**, the concentration in ug/L is calculated as follows:


$$\text{Chromium, ug/L} = 52.2242 * 10 * (25 / 25)$$

$$\text{Chromium, ug/L} = 522.242$$

Reporting results in two significant figures,

$$\text{Chromium, ug/L} = 520$$

Reviewed by:

 3/3/2024

% RSD SUMMARY



ASSET LABORATORIES
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PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	12.106	15	PASS	0.08	13.694	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.46	3.273	15	PASS	0.45	7.881	15	PASS
Std3-5/50 ppb	ICAL	1	4.67	1.391	15	PASS	4.71	0.895	15	PASS
Std4-10/100 ppb	ICAL	1	9.39	1.143	15	PASS	9.62	0.456	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.22	0.806	15	PASS	19.75	0.856	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.51	1.014	15	PASS	39.5	2.031	15	PASS
Std7-100/1000 ppb	ICAL	1	97.49	0.278	15	PASS	98.03	0.615	15	PASS
Std8-200/2000 ppb	ICAL	1	201.47	0.338	15	PASS	201.14	1.833	15	PASS
ICV	ICV	1	10.08	1.452	15	PASS	10.56	1.113	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	197.346	15	<PQL
LLICV1	LLICV	1	1.11	3.823	20	PASS	1.04	5.67	20	PASS
MLCCV	CCV	1	19.45	1.862	15	PASS	19.4	2.875	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	21.03	0.811	15	PASS	20.96	1.018	15	PASS
CCV1	CCV	1	19.09	1.874	15	PASS	19.59	1.736	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.76	1.316	15	PASS	20.73	1.495	15	PASS
CCV2	CCV	1	19.57	1.555	15	PASS	19.74	0.966	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.5	1.963	15	PASS	19.7	2.142	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.53	1.666	15	PASS	19.76	1.655	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.72	1.354	15	PASS	19.6	2.128	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	21.11	2.13	15	PASS	20.65	0.622	15	PASS
CCV6	CCV	1	20.03	1.651	15	PASS	19.87	2.049	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.96	0.414	15	PASS	19.65	2.575	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	21.33	2.496	15	PASS	20.64	1.937	15	PASS
MB-106696	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106696	LCS	1	11.92	1.766	15	PASS	10.32	1.024	15	PASS
N062966-001C	SAMP	1	35.86	1.756	15	PASS	0.05	18.932	15	<PQL
N062966-001C	SAMP	5	7.67	3.468	15	PASS	<0.000	N/A	15	<PQL
N062966-001C-PS	PS	1	44.86	1.252	15	PASS	10.3	1.669	15	PASS
N062966-001CMS	MS	1	43.62	0.661	15	PASS	10.33	1.553	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062966-001CMSD	MSD	1	43.09	1.312	15	PASS	10.28	0.242	15	PASS
CCV8	CCV	1	19.9	1.735	15	PASS	19.87	0.538	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062966-003C	SAMP	1	37.5	0.639	15	PASS	0.1	15.154	15	<PQL
N062966-005C	SAMP	1	17.03	0.886	15	PASS	12.76	0.856	15	PASS
N062966-006C	SAMP	1	86.73	1.199	15	PASS	0.02	60.758	15	<PQL
N062966-008C	SAMP	1	31.23	1.078	15	PASS	23.87	2.033	15	PASS
N062966-009C	SAMP	1	46.06	0.708	15	PASS	0.35	8.437	15	PASS
N062966-010C	SAMP	1	29.67	2.264	15	PASS	0.63	2.148	15	PASS
N062966-012C	SAMP	1	125.45	0.901	15	PASS	0.56	5.969	15	PASS
N062966-013C	SAMP	1	121.93	1.723	15	PASS	0.66	11.234	15	PASS
N062966-014C	SAMP	1	28.28	1.908	15	PASS	501.27	1.252	15	PASS
CCV9	CCV	1	20.11	2.316	15	PASS	19.76	0.517	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.01	158.329	15	<PQL
N062966-015C	SAMP	1	130.78	0.397	15	PASS	18.78	1.074	15	PASS
N062966-016C	SAMP	1	133.84	1.075	15	PASS	18.83	0.653	15	PASS
N062966-017C	SAMP	1	52.85	0.492	15	PASS	206.74	2.119	15	PASS
N062966-017C	SAMP	5	10.74	1.836	15	PASS	42.13	0.243	15	PASS
N062966-017C-PS	PS	1	61.51	0.194	15	PASS	214.2	1.953	15	PASS
N062966-017CMS	MS	1	60.38	1.176	15	PASS	208.83	1.362	15	PASS
N062966-017CMSD	MSD	1	61.04	1.235	15	PASS	206.44	0.784	15	PASS
N062966-018C	SAMP	1	77.75	1.198	15	PASS	26.98	1.382	15	PASS
N062966-019C	SAMP	1	50.85	1.451	15	PASS	5.38	1.403	15	PASS
N062966-020C	SAMP	1	50.32	0.683	15	PASS	5.44	1.108	15	PASS
CCV10	CCV	1	20.31	0.8	15	PASS	19.67	0.648	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.86	2.745	15	PASS	20.8	1.577	15	PASS
CCV11	CCV	1	20.51	1.453	15	PASS	19.55	1.694	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	21.85	1.816	15	PASS	20.84	1.414	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	23.142	15	<PQL	0.07	18.271	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	7.677	15	PASS	0.45	11.686	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	2.555	15	PASS	4.67	2.874	15	PASS
Std4-10/100 ppb	ICAL	1	9.45	3.607	15	PASS	9.46	5.415	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	2.388	15	PASS	18.63	4.193	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.32	1.968	15	PASS	39.07	3.469	15	PASS
Std7-100/1000 ppb	ICAL	1	97.84	0.514	15	PASS	98.03	1.044	15	PASS
Std8-200/2000 ppb	ICAL	1	201.29	3.092	15	PASS	201.34	1.39	15	PASS
ICV	ICV	1	106.03	0.336	15	PASS	10.84	4.327	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	92.181	15	<PQL
LLICV1	LLICV	1	0.53	4.758	20	PASS	0.11	19.185	20	PASS
MLCCV	CCV	1	19.45	2.335	15	PASS	19.5	1.699	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	17.34	0.233	15	PASS	21.41	4.049	15	PASS
CCV1	CCV	1	18.46	2.816	15	PASS	19.84	2.089	15	PASS
CCB1	CCB	1	0	1243.702	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	17.08	1.799	15	PASS	20.7	2.269	15	PASS
CCV2	CCV	1	19.35	1.607	15	PASS	18.96	1.918	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.23	2.81	15	PASS	19.48	1.545	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0	322.314	15	<PQL
CCV4	CCV	1	19.17	2.83	15	PASS	20.3	2.047	15	PASS
CCB4	CCB	1	0	218.569	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.3	1.378	15	PASS	19.93	2.152	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	17.18	1.825	15	PASS	20.93	3.372	15	PASS
CCV6	CCV	1	19.01	2.232	15	PASS	19.31	0.852	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.13	2.989	15	PASS	19.23	2.568	15	PASS
CCB7	CCB	1	0	1245.443	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	16.65	1.593	15	PASS	20.88	2.089	15	PASS
MB-106696	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-106696	LCS	1	102.09	0.593	15	PASS	10.23	2.891	15	PASS
N062966-001C	SAMP	1	128.87	0.78	15	PASS	4.27	6.98	15	PASS
N062966-001C	SAMP	5	27.19	1.24	15	PASS	0.79	4.717	15	PASS
N062966-001C-PS	PS	1	226.14	0.858	15	PASS	14.68	4.154	15	PASS
N062966-001CMS	MS	1	222.52	1.144	15	PASS	14.53	2.491	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062966-001CMSD	MSD	1	219.88	0.273	15	PASS	14.39	1.825	15	PASS
CCV8	CCV	1	19.12	1.341	15	PASS	19.84	1.722	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062966-003C	SAMP	1	158.41	1.133	15	PASS	<0.000	N/A	15	<PQL
N062966-005C	SAMP	1	35.86	1.816	15	PASS	<0.000	N/A	15	<PQL
N062966-006C	SAMP	1	318.41	2.328	15	PASS	3.5	2.579	15	PASS
N062966-008C	SAMP	1	4.3	3.257	15	PASS	<0.000	N/A	15	<PQL
N062966-009C	SAMP	1	407.8	1.556	15	PASS	<0.000	N/A	15	<PQL
N062966-010C	SAMP	1	58.82	0.662	15	PASS	<0.000	N/A	15	<PQL
N062966-012C	SAMP	1	466.72	0.678	15	PASS	<0.000	N/A	15	<PQL
N062966-013C	SAMP	1	422.3	1.493	15	PASS	<0.000	N/A	15	<PQL
N062966-014C	SAMP	1	5.45	2.278	15	PASS	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.27	2.031	15	PASS	19.47	3.456	15	PASS
CCB9	CCB	1	0	86.049	15	<PQL	0	591.274	15	<PQL
N062966-015C	SAMP	1	79.55	1.278	15	PASS	<0.000	N/A	15	<PQL
N062966-016C	SAMP	1	70.69	2.004	15	PASS	<0.000	N/A	15	<PQL
N062966-017C	SAMP	1	68.58	0.555	15	PASS	<0.000	N/A	15	<PQL
N062966-017C	SAMP	5	14.21	0.621	15	PASS	<0.000	N/A	15	<PQL
N062966-017C-PS	PS	1	162.82	1.29	15	PASS	9.09	3.54	15	PASS
N062966-017CMS	MS	1	162.11	1.352	15	PASS	9.62	1.407	15	PASS
N062966-017CMSD	MSD	1	159.41	1.216	15	PASS	9.23	5.946	15	PASS
N062966-018C	SAMP	1	66.85	0.679	15	PASS	<0.000	N/A	15	<PQL
N062966-019C	SAMP	1	218.84	1.395	15	PASS	<0.000	N/A	15	<PQL
N062966-020C	SAMP	1	220.03	1.346	15	PASS	<0.000	N/A	15	<PQL
CCV10	CCV	1	18.98	1.694	15	PASS	19.37	3.402	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	16.94	1.921	15	PASS	20.3	1.302	15	PASS
CCV11	CCV	1	19.05	0.798	15	PASS	19.35	3.259	15	PASS
CCB11	CCB	1	0.01	171.294	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.77	0.493	15	PASS	20.59	2.393	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	46.68	15	<PQL	0.08	20.547	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.54	16.034	15	FAIL	0.43	3.484	15	PASS
Std3-5/50 ppb	ICAL	1	4.45	7.951	15	PASS	4.61	2.923	15	PASS
Std4-10/100 ppb	ICAL	1	9.74	5.729	15	PASS	9.54	1.339	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.53	3.457	15	PASS	18.9	0.79	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.76	2.901	15	PASS	38.78	0.507	15	PASS
Std7-100/1000 ppb	ICAL	1	98.31	1.829	15	PASS	98.32	0.723	15	PASS
Std8-200/2000 ppb	ICAL	1	200.97	1.197	15	PASS	201.23	0.682	15	PASS
ICV	ICV	1	10.54	5.879	15	PASS	10.59	0.581	15	PASS
ICB	ICB	1	0.06	39.119	15	<PQL	0.1	15.105	15	<PQL
LLICV1	LLICV	1	0.53	17.598	20	PASS	0.57	11.263	20	PASS
MLCCV	CCV	1	18.76	1.111	15	PASS	18.91	1.037	15	PASS
ICSA1	ICSA	1	0.01	309.587	15	<PQL	0.06	30.438	15	<PQL
ICSAB1	ICSAB	1	19.67	4.355	15	PASS	22.68	1.672	15	PASS
CCV1	CCV	1	19.04	3.675	15	PASS	20.26	1.178	15	PASS
CCB1	CCB	1	0.02	154.849	15	<PQL	0.06	28.637	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	110.484	15	<PQL
ICSAB2	ICSAB	1	20.12	1.842	15	PASS	22.6	1.333	15	PASS
CCV2	CCV	1	19.67	3.915	15	PASS	20.14	1.541	15	PASS
CCB2	CCB	1	0.01	233.588	15	<PQL	0.03	20.704	15	<PQL
CCV3	CCV	1	19.49	4.122	15	PASS	19.98	1.185	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	12.833	15	PASS
CCV4	CCV	1	19.25	3.408	15	PASS	20.26	0.109	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.05	28.349	15	<PQL
CCV5	CCV	1	19.35	2.507	15	PASS	20.09	1.056	15	PASS
CCB5	CCB	1	0.03	78.753	15	<PQL	0.05	49.101	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.01	92.171	15	<PQL
ICSAB3	ICSAB	1	20.24	5.256	15	PASS	22.55	0.412	15	PASS
CCV6	CCV	1	19.29	2.382	15	PASS	20.19	2.458	15	PASS
CCB6	CCB	1	0.07	135.336	15	<PQL	0.05	37.327	15	<PQL
CCV7	CCV	1	20.33	4.602	15	PASS	20.59	1.747	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.09	9.852	15	PASS
ICSA4	ICSA	1	0.01	301.764	15	<PQL	0.05	10.853	15	PASS
ICSAB4	ICSAB	1	21.29	4.397	15	PASS	22.44	2.359	15	PASS
MB-106696	MBLK	1	0.02	207.45	15	<PQL	0.07	25.897	15	<PQL
LCS-106696	LCS	1	10.03	5.473	15	PASS	10.36	3.461	15	PASS
N062966-001C	SAMP	1	0.01	242.788	15	<PQL	4.98	3.198	15	PASS
N062966-001C	SAMP	5	<0.000	N/A	15	<PQL	1	5.559	15	PASS
N062966-001C-PS	PS	1	9.83	2.127	15	PASS	15.66	2.398	15	PASS
N062966-001CMS	MS	1	10.08	2.68	15	PASS	15.55	1.359	15	PASS

PERCENT RSD SUMMARY: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N062966-001CMSD	MSD	1	9.62	3.692	15	PASS	15.03	2.762	15	PASS
CCV8	CCV	1	19.97	1.598	15	PASS	20.28	1.652	15	PASS
CCB8	CCB	1	0.01	447.492	15	<PQL	0.06	38.517	15	<PQL
N062966-003C	SAMP	1	0.05	83.167	15	<PQL	21.98	0.51	15	PASS
N062966-005C	SAMP	1	0.05	112.861	15	<PQL	53.64	1.391	15	PASS
N062966-006C	SAMP	1	0.03	70.364	15	<PQL	7.79	1.427	15	PASS
N062966-008C	SAMP	1	0.35	20.799	15	<PQL	66.08	1.811	15	PASS
N062966-009C	SAMP	1	0.08	72.98	15	<PQL	209.29	0.773	15	PASS
N062966-010C	SAMP	1	0.02	71.376	15	<PQL	29.37	1.053	15	PASS
N062966-012C	SAMP	1	0.04	84.728	15	<PQL	5.46	3.468	15	PASS
N062966-013C	SAMP	1	0.03	183.8	15	<PQL	4.9	1.326	15	PASS
N062966-014C	SAMP	1	2.42	21.967	15	NR!	14.35	1.787	15	PASS
CCV9	CCV	1	20.16	2.301	15	PASS	20.29	0.773	15	PASS
CCB9	CCB	1	0.01	289.905	15	<PQL	0.07	5.505	15	PASS
N062966-015C	SAMP	1	0.14	49.419	15	<PQL	5.54	4.43	15	PASS
N062966-016C	SAMP	1	0.26	15.191	15	<PQL	5.74	1.602	15	PASS
N062966-017C	SAMP	1	0.7	17.213	15	NR!	37.66	0.797	15	PASS
N062966-017C	SAMP	5	0.15	45.128	15	<PQL	7.38	2.391	15	PASS
N062966-017C-PS	PS	1	10.25	3.616	15	PASS	48.25	0.795	15	PASS
N062966-017CMS	MS	1	10.27	1.827	15	PASS	46.88	0.921	15	PASS
N062966-017CMSD	MSD	1	10.38	2.484	15	PASS	48.02	1.036	15	PASS
N062966-018C	SAMP	1	0.64	7.804	15	PASS	9.82	1.42	15	PASS
N062966-019C	SAMP	1	0.07	74.142	15	<PQL	22.51	1.115	15	PASS
N062966-020C	SAMP	1	0.08	48.456	15	<PQL	23.01	1.318	15	PASS
CCV10	CCV	1	19.41	4.2	15	PASS	20.51	2.159	15	PASS
CCB10	CCB	1	0.01	85.064	15	<PQL	0.06	29.555	15	<PQL
ICSA5	ICSA	1	0.02	150.543	15	<PQL	0.03	35.03	15	<PQL
ICSAB5	ICSAB	1	20.31	5.207	15	PASS	22.52	1.519	15	PASS
CCV11	CCV	1	19.6	4.153	15	PASS	20.56	1.245	15	PASS
CCB11	CCB	1	0	4469.671	15	<PQL	0.1	20.587	15	<PQL
ICSA6	ICSA	1	0.01	225.936	15	<PQL	0.04	53.454	15	<PQL
ICSAB6	ICSAB	1	20.31	2.309	15	PASS	22.64	1.608	15	PASS

PERCENT RSD SUMMARY: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	22.929	15	<PQL	0.05	38.679	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.52	14.419	15	PASS	0.43	4.992	15	PASS
Std3-5/50 ppb	ICAL	1	4.73	2.554	15	PASS	4.73	2.735	15	PASS
Std4-10/100 ppb	ICAL	1	9.79	1.41	15	PASS	9.62	2.12	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.83	1.571	15	PASS	19.73	1.53	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.3	1.634	15	PASS	39.45	1.317	15	PASS
Std7-100/1000 ppb	ICAL	1	99.61	0.787	15	PASS	98.69	0.38	15	PASS
Std8-200/2000 ppb	ICAL	1	200.37	0.957	15	PASS	200.82	2.07	15	PASS
ICV	ICV	1	10.27	2.219	15	PASS	10.7	2.848	15	PASS
ICB	ICB	1	0	315.186	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	1.07	5.567	20	PASS	0.97	3.409	20	PASS
MLCCV	CCV	1	19.89	0.988	15	PASS	20	2.359	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	21.48	1.388	15	PASS	20.79	2.029	15	PASS
CCV1	CCV	1	19.98	0.957	15	PASS	19.53	3.251	15	PASS
CCB1	CCB	1	0	1022.316	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	20.28	1.21	15	PASS	19.44	2.608	15	PASS
CCB2	CCB	1	0.01	74.616	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	21.98	1.306	15	PASS	20.74	0.767	15	PASS
LCS-106696	LCS	1	11.06	2.357	15	PASS	10.32	2.71	15	PASS
N062966-001C	SAMP	10	6.41	3.412	15	PASS	<0.000	N/A	15	<PQL
N062966-001C	SAMP	50	0.56	9.982	15	PASS	<0.000	N/A	15	<PQL
N062966-001C-PS	PS	10	14.41	1.375	15	PASS	10.16	3.415	15	PASS
N062966-001CMS	MS	10	4.98	2.057	15	PASS	1.04	7.857	15	PASS
N062966-001CMSD	MSD	10	6.31	2.703	15	PASS	1.31	2.584	15	PASS
N062966-006C	SAMP	10	12.18	0.739	15	PASS	<0.000	N/A	15	<PQL
N062966-009C	SAMP	10	5.01	3.133	15	PASS	<0.000	N/A	15	<PQL
N062966-012C	SAMP	10	13.17	0.838	15	PASS	0.01	139.417	15	<PQL
N062966-013C	SAMP	10	13.74	1.34	15	PASS	0.01	93.911	15	<PQL
CCV3	CCV	1	20.5	1.622	15	PASS	19.43	0.754	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N062966-014C	SAMP	10	3.06	2.743	15	PASS	52.22	1.815	15	PASS
N062966-017C	SAMP	10	6.29	0.388	15	PASS	23.04	2.246	15	PASS
N062966-017C	SAMP	50	1.1	2.199	15	PASS	4.13	3.118	15	PASS
N062966-017C-PS	PS	10	16	0.34	15	PASS	31.38	2.22	15	PASS
N062966-017CMS	MS	10	6.64	0.036	15	PASS	21.86	1.845	15	PASS
N062966-017CMSD	MSD	10	6.72	1.319	15	PASS	22.34	1.43	15	PASS
N062966-019C	SAMP	10	5.81	2.563	15	PASS	0.55	4.018	15	PASS
N062966-020C	SAMP	10	5.54	4.475	15	PASS	0.49	6.191	15	PASS

PERCENT RSD SUMMARY: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV4	CCV	1	20.56	1.633	15	PASS	19.48	2.035	15	PASS
CCB4	CCB	1	0	301.407	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	22.12	2.738	15	PASS	20.37	0.795	15	PASS
CCV5	CCV	1	20.63	1.316	15	PASS	18.96	2.182	15	PASS
CCB5	CCB	1	0.01	129.461	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.97	1.661	15	PASS	19.19	2.011	15	PASS
CCB6	CCB	1	0.01	36.677	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	20.51	1.905	15	PASS	19.61	2.149	15	PASS
CCB7	CCB	1	0	276.822	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	20.134	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	22.25	1.543	15	PASS	20.34	0.841	15	PASS
CCV8	CCV	1	20.93	0.39	15	PASS	19.38	2.007	15	PASS
CCB8	CCB	1	0	364.806	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	20.85	2.545	15	PASS	19.76	0.945	15	PASS
CCB9	CCB	1	0.01	67.541	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	21.03	1.151	15	PASS	19.26	1.956	15	PASS
CCB10	CCB	1	0.01	38.636	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	22.24	1.008	15	PASS	20.18	1.377	15	PASS
CCV11	CCV	1	21.28	0.71	15	PASS	19.24	1.465	15	PASS
CCB11	CCB	1	0.01	25.988	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	0.01	121.929	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	22.72	1.867	15	PASS	20.37	1.38	15	PASS

PERCENT RSD SUMMARY: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	23.506	15	<PQL	0.11	40.021	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.44	10.545	15	PASS	0.52	17.047	15	FAIL
Std3-5/50 ppb	ICAL	1	4.69	3.298	15	PASS	4.75	1.144	15	PASS
Std4-10/100 ppb	ICAL	1	9.72	0.864	15	PASS	9.88	6.861	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.05	1.179	15	PASS	19.49	5.692	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.49	1.347	15	PASS	39.72	2.052	15	PASS
Std7-100/1000 ppb	ICAL	1	98.45	1.685	15	PASS	99.05	1.858	15	PASS
Std8-200/2000 ppb	ICAL	1	200.99	2.07	15	PASS	200.6	2.376	15	PASS
ICV	ICV	1	106.4	1.145	15	PASS	10.01	6.029	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LLICV1	LLICV	1	0.48	2.822	20	PASS	0.41	14.777	20	PASS
MLCCV	CCV	1	19.24	1.418	15	PASS	20.02	4.825	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	147.648	15	<PQL
ICSAB1	ICSAB	1	17.09	2.933	15	PASS	20.18	3.806	15	PASS
CCV1	CCV	1	19.05	3.037	15	PASS	18.91	1.524	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.03	106.581	15	<PQL
CCV2	CCV	1	18.98	2.482	15	PASS	20.14	4.665	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	152.675	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	182.63	15	<PQL
ICSAB2	ICSAB	1	16.84	3.169	15	PASS	19.64	1.433	15	PASS
LCS-106696	LCS	1	104.19	3.116	15	PASS	10.4	3.742	15	PASS
N062966-001C	SAMP	10	21.31	3.009	15	PASS	0.04	28.27	15	<PQL
N062966-001C	SAMP	50	2	3.15	15	PASS	0.01	180.595	15	<PQL
N062966-001C-PS	PS	10	114.7	0.987	15	PASS	9.98	4.011	15	PASS
N062966-001CMS	MS	10	23.72	1.179	15	PASS	1.16	11.9	15	PASS
N062966-001CMSD	MSD	10	30.18	2.425	15	PASS	1.33	11.597	15	PASS
N062966-006C	SAMP	10	44.09	0.901	15	PASS	0.03	42.292	15	<PQL
N062966-009C	SAMP	10	42.85	1.397	15	PASS	0.01	166.704	15	<PQL
N062966-012C	SAMP	10	49.08	2.222	15	PASS	0	6138.777	15	<PQL
N062966-013C	SAMP	10	47.2	2.462	15	PASS	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.05	1.465	15	PASS	19.48	1.001	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.02	60.592	15	<PQL
N062966-014C	SAMP	10	0.5	12.043	15	PASS	0.21	72.44	15	<PQL
N062966-017C	SAMP	10	7.54	3.65	15	PASS	0.09	34.452	15	<PQL
N062966-017C	SAMP	50	1.28	5.09	15	PASS	0.01	180.359	15	<PQL
N062966-017C-PS	PS	10	104.12	0.978	15	PASS	9.31	4.398	15	PASS
N062966-017CMS	MS	10	17.01	3.555	15	PASS	1.19	1.494	15	PASS
N062966-017CMSD	MSD	10	17.37	1.294	15	PASS	1.26	4.033	15	PASS
N062966-019C	SAMP	10	23.85	1.505	15	PASS	0.01	169.658	15	<PQL
N062966-020C	SAMP	10	22.93	1.383	15	PASS	0.01	341.651	15	<PQL

PERCENT RSD SUMMARY: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	55 Mn [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV4	CCV	1	19.08	2.062	15	PASS	19.35	3.341	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	270.624	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.01	191.908	15	<PQL
ICSAB3	ICSAB	1	16.74	0.886	15	PASS	20.54	3.332	15	PASS
CCV5	CCV	1	18.51	2.75	15	PASS	19.84	3.087	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	156.354	15	<PQL
CCV6	CCV	1	18.65	0.276	15	PASS	20.49	1.494	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.01	3.906	15	PASS
CCV7	CCV	1	19.04	1.671	15	PASS	19.09	2.955	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.03	157.945	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.01	181.003	15	<PQL
ICSAB4	ICSAB	1	16.62	1.549	15	PASS	21.04	4.505	15	PASS
CCV8	CCV	1	18.66	2.379	15	PASS	18.85	3.111	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.01	152.504	15	<PQL
CCV9	CCV	1	18.92	2.722	15	PASS	19.79	2.123	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	18.82	2.759	15	PASS	20.03	7.156	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.01	151.662	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.03	43.225	15	<PQL
ICSAB5	ICSAB	1	16.52	0.763	15	PASS	20.44	3.208	15	PASS
CCV11	CCV	1	18.83	1.687	15	PASS	20.07	1.278	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.01	182.925	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	16.84	1.993	15	PASS	19.78	3.611	15	PASS

PERCENT RSD SUMMARY: 240212A

Instrument ID: ICPMS-03

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	97.756	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.51	10.178	15	PASS
Std3-5/50 ppb	ICAL	1	4.9	5.115	15	PASS
Std4-10/100 ppb	ICAL	1	9.68	3.331	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.98	3.182	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.83	3.841	15	PASS
Std7-100/1000 ppb	ICAL	1	98.15	1.211	15	PASS
Std8-200/2000 ppb	ICAL	1	200.98	1.128	15	PASS
ICV	ICV	1	9.7	4.492	15	PASS
ICB	ICB	1	0.04	48.542	15	<PQL
LLICV1	LLICV	1	0.52	17.347	20	PASS
MLCCV	CCV	1	19.24	2.335	15	PASS
ICSA1	ICSA	1	0.01	171.877	15	<PQL
ICSAB1	ICSAB	1	20.08	2.643	15	PASS
LLICV1	LLICV	1	0.54	21.88	20	NR!
N062966-014C	SAMP	1	2.7	4.274	15	PASS
N062966-017C	SAMP	1	0.83	24.241	15	NR!
N062966-017C	SAMP	1	0.68	11.398	15	PASS
CCV1	CCV	1	19.06	4.743	15	PASS
CCB1	CCB	1	0.02	45.002	15	<PQL
CCV2	CCV	1	19.7	3.234	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	200.456	15	<PQL
ICSAB2	ICSAB	1	19.37	1.982	15	PASS
CCV3	CCV	1	18.89	2.875	15	PASS
CCB3	CCB	1	0.03	69.116	15	<PQL
CCV4	CCV	1	19.42	4.18	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.66	1.222	15	PASS
CCB5	CCB	1	0	1180.372	15	<PQL
ICSA3	ICSA	1	0	1467.919	15	<PQL
ICSAB3	ICSAB	1	19.7	6.705	15	PASS
CCV6	CCV	1	20.41	1.146	15	PASS
CCB6	CCB	1	0	787.87	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.91	4.268	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 240208A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208001.d	RINSE	ICAL	1	02/08/24 3:37 PM
A0208003.d	Cal Blk	IBLK	1	02/08/24 3:41 PM
A0208004.d	Std1-0.1/1 ppb	ICAL	1	02/08/24 3:46 PM
A0208005.d	Std2-0.5/5 ppb	ICAL	1	02/08/24 3:51 PM
A0208006.d	Std3-5/50 ppb	ICAL	1	02/08/24 3:56 PM
A0208007.d	Std4-10/100 ppb	ICAL	1	02/08/24 4:01 PM
A0208008.d	Std5-4.0/20/200 ppb	ICAL	1	02/08/24 4:05 PM
A0208009.d	Std6-8.0/40/400 ppb	ICAL	1	02/08/24 4:10 PM
A0208010.d	Std7-100/1000 ppb	ICAL	1	02/08/24 4:15 PM
A0208011.d	Std8-200/2000 ppb	ICAL	1	02/08/24 4:20 PM
A0208012.d	ICV	ICV	1	02/08/24 4:30 PM
A0208013.d	ICB	ICB	1	02/08/24 4:34 PM
A0208014.d	LLICV1	LLICV	1	02/08/24 4:39 PM
A0208015.d	MLCCV	CCV	1	02/08/24 4:45 PM
A0208016.d	ICSA1	ICSA	1	02/08/24 4:50 PM
A0208017.d	ICSAB1	ICSAB	1	02/08/24 4:54 PM
A0208018.d	MB-106672	MBLK	1	02/08/24 5:16 PM
A0208019.d	LCS-106672	LCS	1	02/08/24 5:20 PM
A0208020.d	N062802-001E	SAMP	1	02/08/24 5:25 PM
A0208021.d	N062802-001E	SAMP	5	02/08/24 5:30 PM
A0208022.d	N062802-001E-PS	PS	1	02/08/24 5:34 PM
A0208023.d	N062802-001E-MS	MS	1	02/08/24 5:39 PM
A0208024.d	N062802-001E-MSD	MSD	1	02/08/24 5:44 PM
A0208025.d	N062843-001D	SAMP	1	02/08/24 5:48 PM
A0208026.d	RINSE	ICAL	1	02/08/24 5:53 PM
A0208027.d	CCV1	CCV	1	02/08/24 5:58 PM
A0208028.d	CCB1	CCB	1	02/08/24 6:02 PM
A0208029.d	ICSA2	ICSA	1	02/08/24 6:07 PM
A0208030.d	ICSAB2	ICSAB	1	02/08/24 6:12 PM
A0208031.d	N062863-004A	SAMP	25	02/08/24 6:17 PM
A0208032.d	N062863-005A	SAMP	25	02/08/24 6:22 PM
A0208033.d	N062863-009A	SAMP	25	02/08/24 6:27 PM
A0208034.d	N062863-010A	SAMP	25	02/08/24 6:31 PM
A0208035.d	N062823-003A	SAMP	25	02/08/24 6:36 PM
A0208036.d	N062887-001D	SAMP	5	02/08/24 6:40 PM
A0208037.d	N062887-001D	SAMP	25	02/08/24 6:45 PM
A0208038.d	N062887-001D-PS	PS	5	02/08/24 6:50 PM
A0208039.d	N062887-001D-MS	MS	5	02/08/24 6:54 PM
A0208040.d	N062887-001D-MSD	MSD	5	02/08/24 6:59 PM
A0208041.d	CCV2	CCV	1	02/08/24 7:04 PM
A0208042.d	CCB2	CCB	1	02/08/24 7:08 PM
A0208043.d	N062887-002D	SAMP	5	02/08/24 7:13 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208044.d	N062894-001A	SAMP	5	02/08/24 7:18 PM
A0208045.d	N062894-001A-MS	MS	5	02/08/24 7:22 PM
A0208046.d	N062894-003A	SAMP	5	02/08/24 7:27 PM
A0208047.d	N062894-005A	SAMP	5	02/08/24 7:32 PM
A0208048.d	N062895-002A	SAMP	5	02/08/24 7:36 PM
A0208049.d	CCV3	CCV	1	02/08/24 7:41 PM
A0208050.d	CCB3	CCB	1	02/08/24 7:46 PM
A0208051.d	MB-106675	MBLK	1	02/08/24 7:50 PM
A0208052.d	LCS-106675	LCS	1	02/08/24 7:55 PM
A0208053.d	N062919-001C	SAMP	1	02/08/24 8:00 PM
A0208054.d	N062919-001C	SAMP	5	02/08/24 8:04 PM
A0208055.d	N062919-001C	SAMP	25	02/08/24 8:09 PM
A0208056.d	N062919-001C-PS	PS	1	02/08/24 8:14 PM
A0208057.d	N062919-001C-PS	PS	5	02/08/24 8:18 PM
A0208058.d	N062919-001C-MS	MS	1	02/08/24 8:23 PM
A0208059.d	N062919-001C-MS	MS	5	02/08/24 8:28 PM
A0208060.d	CCV4	CCV	1	02/08/24 8:32 PM
A0208061.d	CCB4	CCB	1	02/08/24 8:37 PM
A0208062.d	N062919-001C-MSD	MSD	1	02/08/24 8:42 PM
A0208063.d	N062919-001C-MSD	MSD	5	02/08/24 8:46 PM
A0208064.d	N062919-002C	SAMP	1	02/08/24 8:51 PM
A0208065.d	RINSE	ICAL	1	02/08/24 8:56 PM
A0208066.d	CCV5	CCV	1	02/08/24 9:00 PM
A0208067.d	CCB5	CCB	1	02/08/24 9:05 PM
A0208068.d	ICSA3	ICSA	1	02/08/24 9:10 PM
A0208069.d	ICSAB3	ICSAB	1	02/08/24 9:14 PM
A0208070.d	N062911-004C	SAMP	1	02/08/24 9:19 PM
A0208071.d	N062911-006C	SAMP	1	02/08/24 9:24 PM
A0208072.d	N062911-006C	SAMP	10	02/08/24 9:28 PM
A0208073.d	N062938-004C	SAMP	1	02/08/24 9:33 PM
A0208074.d	N062938-004C	SAMP	5	02/08/24 9:38 PM
A0208075.d	N062938-008C	SAMP	1	02/08/24 9:42 PM
A0208076.d	N062938-012C	SAMP	10	02/08/24 9:47 PM
A0208077.d	N062938-013C	SAMP	10	02/08/24 9:52 PM
A0208078.d	N062938-017C	SAMP	1	02/08/24 9:56 PM
A0208079.d	N062938-018C	SAMP	10	02/08/24 10:01 PM
A0208080.d	CCV6	CCV	1	02/08/24 10:05 PM
A0208081.d	CCB6	CCB	1	02/08/24 10:10 PM
A0208082.d	N062911-004C	SAMP	1	02/08/24 10:15 PM
A0208083.d	N062911-006C	SAMP	1	02/08/24 10:20 PM
A0208084.d	N062938-004C	SAMP	1	02/08/24 10:24 PM
A0208085.d	N062938-008C	SAMP	1	02/08/24 10:29 PM

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Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208086.d	N062938-017C	SAMP	1	02/08/24 10:33 PM
A0208087.d	N062911-004C	SAMP	1	02/08/24 10:38 PM
A0208088.d	N062911-006C	SAMP	1	02/08/24 10:43 PM
A0208089.d	N062938-004C	SAMP	1	02/08/24 10:48 PM
A0208090.d	N062938-008C	SAMP	1	02/08/24 10:52 PM
A0208091.d	N062938-017C	SAMP	1	02/08/24 10:57 PM
A0208092.d	CCV7	CCV	1	02/08/24 11:01 PM
A0208093.d	CCB7	CCB	1	02/08/24 11:06 PM
A0208094.d	ICSA4	ICSA	1	02/08/24 11:11 PM
A0208095.d	ICSAB4	ICSAB	1	02/08/24 11:15 PM
A0208096.d	MB-106696	MBLK	1	02/08/24 11:20 PM
A0208097.d	LCS-106696	LCS	1	02/08/24 11:25 PM
A0208098.d	N062495-015D	SAMP	1	02/08/24 11:29 PM
A0208099.d	N062495-015D	SAMP	5	02/08/24 11:34 PM
A0208100.d	N062966-001C	SAMP	1	02/08/24 11:39 PM
A0208101.d	N062966-001C	SAMP	5	02/08/24 11:43 PM
A0208102.d	N062966-001C-PS	PS	1	02/08/24 11:48 PM
A0208103.d	N062966-001CMS	MS	1	02/08/24 11:53 PM
A0208104.d	N062966-001CMSD	MSD	1	02/08/24 11:57 PM
A0208105.d	RINSE	RINSE	1	02/09/24 12:02 AM
A0208106.d	CCV8	CCV	1	02/09/24 12:07 AM
A0208107.d	CCB8	CCB	1	02/09/24 12:11 AM
A0208108.d	N062966-003C	SAMP	1	02/09/24 12:16 AM
A0208109.d	N062966-005C	SAMP	1	02/09/24 12:21 AM
A0208110.d	N062966-006C	SAMP	1	02/09/24 12:25 AM
A0208111.d	N062966-008C	SAMP	1	02/09/24 12:30 AM
A0208112.d	N062966-009C	SAMP	1	02/09/24 12:34 AM
A0208113.d	N062966-010C	SAMP	1	02/09/24 12:39 AM
A0208114.d	N062966-012C	SAMP	1	02/09/24 12:44 AM
A0208115.d	N062966-013C	SAMP	1	02/09/24 12:48 AM
A0208116.d	N062966-014C	SAMP	1	02/09/24 12:53 AM
A0208117.d	RINSE	RINSE	1	02/09/24 12:58 AM
A0208118.d	CCV9	CCV	1	02/09/24 1:02 AM
A0208119.d	CCB9	CCB	1	02/09/24 1:07 AM
A0208120.d	N062966-015C	SAMP	1	02/09/24 1:11 AM
A0208121.d	N062966-016C	SAMP	1	02/09/24 1:16 AM
A0208122.d	N062966-017C	SAMP	1	02/09/24 1:21 AM
A0208123.d	N062966-017C	SAMP	5	02/09/24 1:25 AM
A0208124.d	N062966-017C-PS	PS	1	02/09/24 1:30 AM
A0208125.d	N062966-017CMS	MS	1	02/09/24 1:35 AM
A0208126.d	N062966-017CMSD	MSD	1	02/09/24 1:39 AM
A0208127.d	N062966-018C	SAMP	1	02/09/24 1:44 AM

INJECTION LOG: 240208A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0208128.d	N062966-019C	SAMP	1	02/09/24 1:49 AM
A0208129.d	N062966-020C	SAMP	1	02/09/24 1:53 AM
A0208130.d	CCV10	CCV	1	02/09/24 1:58 AM
A0208131.d	CCB10	CCB	1	02/09/24 2:03 AM
A0208132.d	ICSA5	ICSA	1	02/09/24 2:07 AM
A0208133.d	ICSAB5	ICSAB	1	02/09/24 2:12 AM
A0208134.d	N062911-004C	SAMP	1	02/09/24 2:16 AM
A0208135.d	N062911-006C	SAMP	1	02/09/24 2:21 AM
A0208136.d	N062938-004C	SAMP	1	02/09/24 2:26 AM
A0208137.d	N062938-008C	SAMP	1	02/09/24 2:31 AM
A0208138.d	N062938-017C	SAMP	1	02/09/24 2:35 AM
A0208139.d	N062911-004C	SAMP	1	02/09/24 2:40 AM
A0208140.d	N062911-006C	SAMP	1	02/09/24 2:44 AM
A0208141.d	N062938-004C	SAMP	1	02/09/24 2:49 AM
A0208142.d	N062938-008C	SAMP	1	02/09/24 2:54 AM
A0208143.d	N062938-017C	SAMP	1	02/09/24 2:59 AM
A0208144.d	CCV11	CCV	1	02/09/24 3:03 AM
A0208145.d	CCB11	CCB	1	02/09/24 3:08 AM
A0208146.d	ICSA6	ICSA	1	02/09/24 3:12 AM
A0208147.d	ICSAB6	ICSAB	1	02/09/24 3:17 AM
A0208148.d	RINSE	ICAL	1	02/09/24 3:22 AM
A0208149.d	RINSE	ICAL	1	02/09/24 3:26 AM
A0208150.d	RINSE	ICAL	1	02/09/24 3:31 AM
A0208151.d	RINSE	ICAL	1	02/09/24 3:36 AM
A0208152.d	RINSE	ICAL	1	02/09/24 3:40 AM

INJECTION LOG: 240209A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0209001.d	RINSE	ICAL	1	02/09/24 12:20 PM
A0209002.d	Cal Blk	IBLK	1	02/09/24 12:25 PM
A0209003.d	Std1-0.1/1 ppb	ICAL	1	02/09/24 12:30 PM
A0209004.d	Std2-0.5/5 ppb	ICAL	1	02/09/24 12:34 PM
A0209005.d	Std3-5/50 ppb	ICAL	1	02/09/24 12:39 PM
A0209006.d	Std4-10/100 ppb	ICAL	1	02/09/24 12:44 PM
A0209007.d	Std5-4.0/20/200 ppb	ICAL	1	02/09/24 12:49 PM
A0209008.d	Std6-8.0/40/400 ppb	ICAL	1	02/09/24 12:54 PM
A0209009.d	Std7-100/1000 ppb	ICAL	1	02/09/24 12:58 PM
A0209010.d	Std8-200/2000 ppb	ICAL	1	02/09/24 1:10 PM
A0209011.d	ICV	ICV	1	02/09/24 1:27 PM
A0209012.d	ICB	ICB	1	02/09/24 1:32 PM
A0209013.d	LLICV1	LLICV	1	02/09/24 1:36 PM
A0209014.d	MLCCV	CCV	1	02/09/24 1:41 PM
A0209015.d	ICSA1	ICSA	1	02/09/24 1:46 PM
A0209016.d	ICSAB1	ICSAB	1	02/09/24 1:50 PM
A0209017.d	MB-106716	MBLK	1	02/09/24 2:11 PM
A0209018.d	LCS-106716	LCS	1	02/09/24 2:16 PM
A0209019.d	N062975-001B	SAMP	1	02/09/24 2:21 PM
A0209020.d	N062975-001B	SAMP	5	02/09/24 2:25 PM
A0209021.d	N062975-001B-PS	PS	1	02/09/24 2:30 PM
A0209022.d	N062975-001B-MS	MS	1	02/09/24 2:35 PM
A0209023.d	N062975-001B-MSD	MSD	1	02/09/24 2:39 PM
A0209024.d	RINSE	ICAL	1	02/09/24 2:44 PM
A0209025.d	CCV1	CCV	1	02/09/24 2:49 PM
A0209026.d	CCB1	CCB	1	02/09/24 2:53 PM
A0209027.d	N062975-001B	SAMP	100	02/09/24 2:58 PM
A0209028.d	N062975-001B	SAMP	500	02/09/24 3:02 PM
A0209029.d	N062975-001B-PS	PS	100	02/09/24 3:07 PM
A0209030.d	N062975-001B-MS	MS	100	02/09/24 3:12 PM
A0209031.d	N062975-001B-MSD	MSD	100	02/09/24 3:16 PM
A0209032.d	CCV2	CCV	1	02/09/24 3:21 PM
A0209033.d	CCB2	CCB	1	02/09/24 3:26 PM
A0209034.d	ICSA2	ICSA	1	02/09/24 3:30 PM
A0209035.d	ICSAB2	ICSAB	1	02/09/24 3:35 PM
A0209036.d	LCS-106696	LCS	1	02/09/24 3:40 PM
A0209037.d	N062966-001C	SAMP	10	02/09/24 3:44 PM
A0209038.d	N062966-001C	SAMP	50	02/09/24 3:49 PM
A0209039.d	N062966-001C-PS	PS	10	02/09/24 3:54 PM
A0209040.d	N062966-001CMS	MS	10	02/09/24 3:58 PM
A0209041.d	N062966-001CMSD	MSD	10	02/09/24 4:03 PM
A0209042.d	N062966-006C	SAMP	10	02/09/24 4:07 PM

INJECTION LOG: 240209A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0209043.d	N062966-009C	SAMP	10	02/09/24 4:12 PM
A0209044.d	N062966-012C	SAMP	10	02/09/24 4:17 PM
A0209045.d	N062966-013C	SAMP	10	02/09/24 4:21 PM
A0209046.d	CCV3	CCV	1	02/09/24 4:26 PM
A0209047.d	CCB3	CCB	1	02/09/24 4:31 PM
A0209048.d	N062966-014C	SAMP	10	02/09/24 4:35 PM
A0209049.d	N062966-017C	SAMP	10	02/09/24 4:40 PM
A0209050.d	N062966-017C	SAMP	50	02/09/24 4:45 PM
A0209051.d	N062966-017C-PS	PS	10	02/09/24 4:49 PM
A0209052.d	N062966-017CMS	MS	10	02/09/24 4:54 PM
A0209053.d	N062966-017CMSD	MSD	10	02/09/24 4:59 PM
A0209054.d	N062966-019C	SAMP	10	02/09/24 5:03 PM
A0209055.d	N062966-020C	SAMP	10	02/09/24 5:08 PM
A0209056.d	CCV4	CCV	1	02/09/24 5:12 PM
A0209057.d	CCB4	CCB	1	02/09/24 5:17 PM
A0209058.d	ICSA3	ICSA	1	02/09/24 5:22 PM
A0209059.d	ICSAB3	ICSAB	1	02/09/24 5:26 PM
A0209060.d	MB-106714	MBLK	1	02/09/24 5:31 PM
A0209061.d	MB-106714	MBLK	1	02/09/24 5:36 PM
A0209062.d	LCS-106714	LCS	1	02/09/24 5:40 PM
A0209063.d	N063001-001C	SAMP	1	02/09/24 5:45 PM
A0209064.d	N063001-001C	SAMP	5	02/09/24 5:50 PM
A0209065.d	N063001-001C-PS	PS	1	02/09/24 5:55 PM
A0209066.d	N063001-001CMS	MS	1	02/09/24 5:59 PM
A0209067.d	N063001-001CMSD	MSD	1	02/09/24 6:04 PM
A0209068.d	N063001-003C	SAMP	1	02/09/24 6:08 PM
A0209069.d	RINSE	ICAL	1	02/09/24 6:13 PM
A0209070.d	CCV5	CCV	1	02/09/24 6:18 PM
A0209071.d	CCB5	CCB	1	02/09/24 6:22 PM
A0209072.d	N063001-004C	SAMP	1	02/09/24 6:27 PM
A0209073.d	N063001-005C	SAMP	1	02/09/24 6:32 PM
A0209074.d	N063001-006C	SAMP	1	02/09/24 6:36 PM
A0209075.d	N063001-007C	SAMP	1	02/09/24 6:41 PM
A0209076.d	N063001-008C	SAMP	1	02/09/24 6:46 PM
A0209077.d	N063001-009C	SAMP	1	02/09/24 6:50 PM
A0209078.d	N063001-010C	SAMP	1	02/09/24 6:55 PM
A0209079.d	N063001-011C	SAMP	1	02/09/24 7:00 PM
A0209080.d	N063001-012C	SAMP	1	02/09/24 7:04 PM
A0209081.d	RINSE	ICAL	1	02/09/24 7:09 PM
A0209082.d	CCV6	CCV	1	02/09/24 7:14 PM
A0209083.d	CCB6	CCB	1	02/09/24 7:18 PM
A0209084.d	N063001-014C	SAMP	1	02/09/24 7:23 PM

INJECTION LOG: 240209A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0209085.d	N063001-015C	SAMP	1	02/09/24 7:28 PM
A0209086.d	N063001-016C	SAMP	1	02/09/24 7:32 PM
A0209087.d	N063001-017C	SAMP	1	02/09/24 7:37 PM
A0209088.d	N063001-018C	SAMP	1	02/09/24 7:42 PM
A0209089.d	N063001-020C	SAMP	1	02/09/24 7:46 PM
A0209090.d	N063001-021C	SAMP	1	02/09/24 7:51 PM
A0209091.d	RINSE	ICAL	1	02/09/24 7:56 PM
A0209092.d	CCV7	CCV	1	02/09/24 8:00 PM
A0209093.d	CCB7	CCB	1	02/09/24 8:05 PM
A0209094.d	ICSA4	ICSA	1	02/09/24 8:09 PM
A0209095.d	ICSAB4	ICSAB	1	02/09/24 8:14 PM
A0209096.d	N063001-001C	SAMP	10	02/09/24 8:19 PM
A0209097.d	N063001-001C	SAMP	50	02/09/24 8:24 PM
A0209098.d	N063001-001C-PS	PS	10	02/09/24 8:28 PM
A0209099.d	N063001-001CMS	MS	10	02/09/24 8:33 PM
A0209100.d	N063001-001CMSD	MSD	10	02/09/24 8:37 PM
A0209101.d	N063001-003C	SAMP	1	02/09/24 8:42 PM
A0209102.d	N063001-004C	SAMP	1	02/09/24 8:47 PM
A0209103.d	N063001-005C	SAMP	1	02/09/24 8:52 PM
A0209104.d	N063001-005C	SAMP	10	02/09/24 8:56 PM
A0209105.d	N063001-006C	SAMP	10	02/09/24 9:01 PM
A0209106.d	CCV8	CCV	1	02/09/24 9:05 PM
A0209107.d	CCB8	CCB	1	02/09/24 9:10 PM
A0209108.d	N063001-007C	SAMP	10	02/09/24 9:15 PM
A0209109.d	N063001-011C	SAMP	1	02/09/24 9:19 PM
A0209110.d	N063001-015C	SAMP	10	02/09/24 9:24 PM
A0209111.d	N063001-017C	SAMP	10	02/09/24 9:29 PM
A0209112.d	N063001-018C	SAMP	10	02/09/24 9:33 PM
A0209113.d	N063001-020C	SAMP	10	02/09/24 9:38 PM
A0209114.d	N063001-021C	SAMP	10	02/09/24 9:43 PM
A0209115.d	CCV9	CCV	1	02/09/24 9:47 PM
A0209116.d	CCB9	CCB	1	02/09/24 9:52 PM
A0209117.d	N063001-003C	SAMP	1	02/09/24 9:57 PM
A0209118.d	N063001-004C	SAMP	1	02/09/24 10:01 PM
A0209119.d	N063001-005C	SAMP	1	02/09/24 10:06 PM
A0209120.d	N063001-011C	SAMP	1	02/09/24 10:11 PM
A0209121.d	N063001-003C	SAMP	1	02/09/24 10:15 PM
A0209122.d	N063001-004C	SAMP	1	02/09/24 10:20 PM
A0209123.d	N063001-005C	SAMP	1	02/09/24 10:25 PM
A0209124.d	N063001-011C	SAMP	1	02/09/24 10:29 PM
A0209125.d	RINSE	ICAL	1	02/09/24 10:34 PM
A0209126.d	CCV10	CCV	1	02/09/24 10:39 PM

INJECTION LOG: 240209A**Instrument ID: ICPMS-03**

Data File	Sample Name	Type	DF	Acq. Date-Time
A0209127.d	CCB10	CCB	1	02/09/24 10:43 PM
A0209128.d	ICSA5	ICSA	1	02/09/24 10:48 PM
A0209129.d	ICSAB5	ICSAB	1	02/09/24 10:53 PM
A0209130.d	N063001-003C	SAMP	1	02/09/24 10:57 PM
A0209131.d	N063001-004C	SAMP	1	02/09/24 11:02 PM
A0209132.d	N063001-005C	SAMP	1	02/09/24 11:07 PM
A0209133.d	N063001-011C	SAMP	1	02/09/24 11:11 PM
A0209134.d	N063001-003C	SAMP	1	02/09/24 11:16 PM
A0209135.d	N063001-004C	SAMP	1	02/09/24 11:21 PM
A0209136.d	N063001-005C	SAMP	1	02/09/24 11:25 PM
A0209137.d	N063001-011C	SAMP	1	02/09/24 11:30 PM
A0209138.d	RINSE	ICAL	1	02/09/24 11:35 PM
A0209139.d	CCV11	CCV	1	02/09/24 11:39 PM
A0209140.d	CCB11	CCB	1	02/09/24 11:44 PM
A0209141.d	ICSA6	ICSA	1	02/09/24 11:49 PM
A0209142.d	ICSAB6	ICSAB	1	02/09/24 11:53 PM
A0209143.d	RINSE	ICAL	1	02/09/24 11:58 PM
A0209144.d	RINSE	ICAL	1	02/10/24 12:02 AM
A0209145.d	RINSE	ICAL	1	02/10/24 12:07 AM
A0209146.d	RINSE	ICAL	1	02/10/24 12:12 AM
A0209147.d	RINSE	ICAL	1	02/10/24 12:16 AM

INJECTION LOG: 240212A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0212001.d	RINSE	ICAL	1	02/12/24 2:46 PM
A0212002.d	RINSE	ICAL	1	02/12/24 2:50 PM
A0212003.d	Cal Blk	IBLK	1	02/12/24 2:55 PM
A0212004.d	Std1-0.1/1 ppb	ICAL	1	02/12/24 3:00 PM
A0212005.d	Std2-0.5/5 ppb	ICAL	1	02/12/24 3:04 PM
A0212006.d	Std3-5/50 ppb	ICAL	1	02/12/24 3:09 PM
A0212007.d	Std4-10/100 ppb	ICAL	1	02/12/24 3:14 PM
A0212008.d	Std5-4.0/20/200 ppb	ICAL	1	02/12/24 3:19 PM
A0212009.d	Std6-8.0/40/400 ppb	ICAL	1	02/12/24 3:23 PM
A0212010.d	Std7-100/1000 ppb	ICAL	1	02/12/24 3:28 PM
A0212011.d	Std8-200/2000 ppb	ICAL	1	02/12/24 3:33 PM
A0212012.d	ICV	ICV	1	02/12/24 3:43 PM
A0212013.d	ICB	ICB	1	02/12/24 3:48 PM
A0212014.d	LLICV1	LLICV	1	02/12/24 3:53 PM
A0212015.d	MLCCV	CCV	1	02/12/24 4:07 PM
A0212016.d	ICSA1	ICSA	1	02/12/24 4:12 PM
A0212017.d	ICSAB1	ICSAB	1	02/12/24 4:16 PM
A0212018.d	LLICV1	LLICV	1	02/12/24 4:21 PM
A0212019.d	N062966-014C	SAMP	1	02/12/24 4:27 PM
A0212020.d	N062966-017C	SAMP	1	02/12/24 4:31 PM
A0212021.d	N062966-017C	SAMP	1	02/12/24 4:36 PM
A0212022.d	CCV1	CCV	1	02/12/24 4:44 PM
A0212023.d	CCB1	CCB	1	02/12/24 4:49 PM
A0212024.d	MB-106716	MBLK	1	02/12/24 4:53 PM
A0212025.d	LCS-106716	LCS	1	02/12/24 4:58 PM
A0212026.d	N062975-001B	SAMP	1	02/12/24 5:03 PM
A0212027.d	N062975-001B	SAMP	5	02/12/24 5:07 PM
A0212028.d	N062975-001B-PS	PS	1	02/12/24 5:12 PM
A0212029.d	N062975-001B-MS	MS	1	02/12/24 5:17 PM
A0212030.d	N062975-001B-MSD	MSD	1	02/12/24 5:21 PM
A0212031.d	RINSE	ICAL	1	02/12/24 5:26 PM
A0212032.d	CCV2	CCV	1	02/12/24 5:30 PM
A0212033.d	CCB2	CCB	1	02/12/24 5:35 PM
A0212034.d	ICSA2	ICSA	1	02/12/24 5:40 PM
A0212035.d	ICSAB2	ICSAB	1	02/12/24 5:44 PM
A0212036.d	N063001-005C	SAMP	100	02/12/24 5:53 PM
A0212037.d	MB-106751	MBLK	1	02/12/24 5:58 PM
A0212038.d	LCS-106751	LCS	1	02/12/24 6:03 PM
A0212039.d	N063010-001B	SAMP	1	02/12/24 6:07 PM
A0212040.d	N063010-001B	SAMP	10	02/12/24 6:12 PM
A0212041.d	N063010-002B	SAMP	1	02/12/24 6:16 PM
A0212042.d	N063010-002B	SAMP	10	02/12/24 6:21 PM

INJECTION LOG: 240212A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0212043.d	N063010-003B	SAMP	1	02/12/24 6:26 PM
A0212044.d	N063010-003B	SAMP	10	02/12/24 6:31 PM
A0212045.d	CCV3	CCV	1	02/12/24 6:35 PM
A0212046.d	CCB3	CCB	1	02/12/24 6:40 PM
A0212047.d	N063012-001C	SAMP	1	02/12/24 6:44 PM
A0212048.d	N063012-001C	SAMP	5	02/12/24 6:49 PM
A0212049.d	N063012-001C-PS	PS	1	02/12/24 6:54 PM
A0212050.d	N063012-001C-MS	MS	1	02/12/24 6:58 PM
A0212051.d	N063012-001C-MSD	MSD	1	02/12/24 7:03 PM
A0212052.d	N063012-002C	SAMP	1	02/12/24 7:08 PM
A0212053.d	N063012-003C	SAMP	1	02/12/24 7:12 PM
A0212054.d	N063012-004C	SAMP	1	02/12/24 7:17 PM
A0212055.d	N063012-006C	SAMP	1	02/12/24 7:22 PM
A0212056.d	RINSE	ICAL	1	02/12/24 7:26 PM
A0212057.d	CCV4	CCV	1	02/12/24 7:31 PM
A0212058.d	CCB4	CCB	1	02/12/24 7:36 PM
A0212059.d	N063012-007C	SAMP	1	02/12/24 7:40 PM
A0212060.d	N063012-009C	SAMP	1	02/12/24 7:45 PM
A0212061.d	N063010-001B	SAMP	100	02/12/24 7:50 PM
A0212062.d	N063010-002B	SAMP	100	02/12/24 7:54 PM
A0212063.d	N063010-003B	SAMP	100	02/12/24 7:59 PM
A0212064.d	RINSE	ICAL	1	02/12/24 8:04 PM
A0212065.d	CCV5	CCV	1	02/12/24 8:08 PM
A0212066.d	CCB5	CCB	1	02/12/24 8:13 PM
A0212067.d	ICSA3	ICSA	1	02/12/24 8:17 PM
A0212068.d	ICSAB3	ICSAB	1	02/12/24 8:22 PM
A0212069.d	MB-106752	MBLK	1	02/12/24 8:27 PM
A0212070.d	LCS-106752	LCS	1	02/12/24 8:32 PM
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A0212072.d	N063010-002C	SAMP	1	02/12/24 8:41 PM
A0212073.d	N063010-002C	SAMP	5	02/12/24 8:45 PM
A0212074.d	N063010-002C-PS	PS	1	02/12/24 8:50 PM
A0212075.d	N063010-002C-MS	MS	1	02/12/24 8:55 PM
A0212076.d	N063010-002C-MSD	MSD	1	02/12/24 9:00 PM
A0212077.d	N063010-003C	SAMP	1	02/12/24 9:04 PM
A0212078.d	RINSE	ICAL	1	02/12/24 9:09 PM
A0212079.d	CCV6	CCV	1	02/12/24 9:13 PM
A0212080.d	CCB6	CCB	1	02/12/24 9:18 PM
A0212081.d	ICSA4	ICSA	1	02/12/24 9:23 PM
A0212082.d	ICSAB4	ICSAB	1	02/12/24 9:27 PM
A0212083.d	RINSE	ICAL	1	02/12/24 9:32 PM
A0212084.d	RINSE	ICAL	1	02/12/24 9:37 PM

INJECTION LOG: 240212A

Instrument ID: ICPMS-03

Data File	Sample Name	Type	DF	Acq. Date-Time
A0212085.d	RINSE	ICAL	1	02/12/24 9:41 PM
A0212086.d	RINSE	ICAL	1	02/12/24 9:46 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/8/2024 10:50:15 AM

Reviewed/ Date: JRB 3/3/2024

Page: 1 of 2

Prep End Date: 2/8/2024 3:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106696 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-02-27

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-106696	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-106696	Aqueous		25	<input type="checkbox"/>	25	1.000		
N062495-015D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
	REDIGEST							
N062966-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-001CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-001CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 2/8/2024 10:50:15 AM

Reviewed/ Date: JRB 3/3/2024

Page: 2 of 2

Prep End Date: 2/8/2024 3:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 106696 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95 DB-02-27

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N062966-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-017CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-018C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-019C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N062966-020C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
16129	NITRIC ACID
16132	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-231130C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-231130D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-231130E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-231130F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240207A.b
Acq. Date-Time 2024-02-08 11:58:38
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

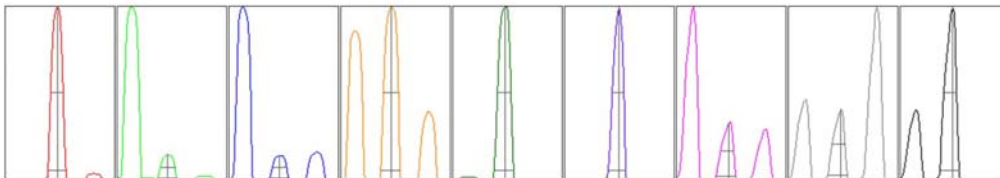
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6293	62927.79	500.00		2.159	5.000
24	10.00	18505	185047.37	500.00		2.235	5.000
25	10.00	2469	24686.83	500.00		3.042	5.000
26	10.00	2844	28443.28	500.00		2.716	5.000
59	10.00	28640	286397.98	500.00		1.778	5.000
115	10.00	34347	343465.47	500.00		1.897	5.000
206	10.00	6035	60350.55	500.00		2.366	5.000
207	10.00	5122	51223.45	500.00		2.256	5.000
208	10.00	12495	124949.23	500.00		2.335	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.533 %
Doubly Charged 70 / 140 0.932 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6542.86	8.95	8.90 - 9.10	
24	19479.13	23.90	23.90 - 24.10	
25	2567.75	24.90	24.90 - 25.10	
26	2967.68	25.90	25.90 - 26.10	
59	28845.91	58.95	58.90 - 59.10	
115	34318.53	115.00	114.90 - 115.10	
206	5965.69	205.95	205.90 - 206.10	
207	5341.53	206.95	206.90 - 207.10	
208	13316.16	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.39	0.494	0.900	
25	0.39	0.493	0.900	
26	0.41	0.533	0.900	
59	0.37	0.528	0.900	
115	0.33	0.477	0.900	
206	0.37	0.539	0.900	
207	0.36	0.554	0.900	
208	0.36	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2516 V Pulse HV 1593 V

[H2]

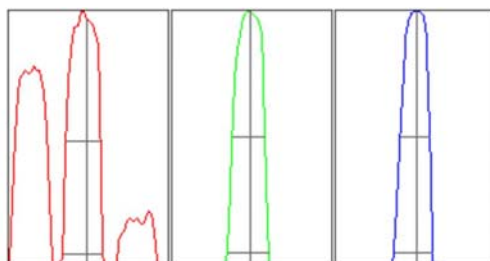
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		169	1694.08			9.901	
59		2318	23184.55			3.522	
115		29580	295798.80			2.689	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.480 %
 Doubly Charged 70 / 140 0.311 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	176.02	26.00	25.90 - 26.10	
59	2468.17	59.00	58.90 - 59.10	
115	31248.37	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.745	0.900	
59	0.62	0.779	0.900	
115	0.57	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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[He]

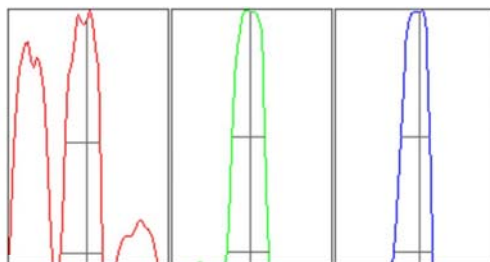
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		78	780.42			12.313	
59		6407	64068.48			1.994	
115		5210	52102.35			2.618	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.193 %
Doubly Charged	70 / 140 1.242 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	74.50	26.00	25.90 - 26.10	
59	6497.64	59.00	58.90 - 59.10	
115	5256.32	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.782	0.900	
59	0.62	0.779	0.900	
115	0.55	0.728	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2516 V	Pulse HV	1593 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240208A2.b
Acq. Date-Time 2024-02-09 12:08:03
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

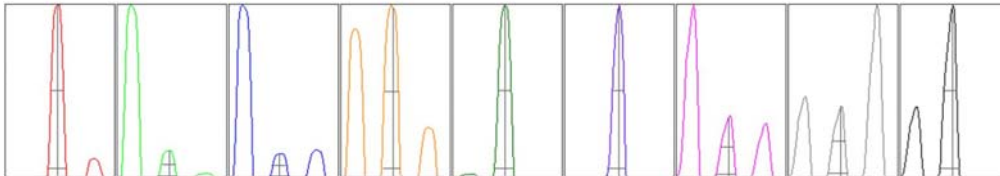
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4561	45606.44	500.00		3.218	5.000
24	10.00	14207	142074.85	500.00		3.767	5.000
25	10.00	1906	19062.64	500.00		4.155	5.000
26	10.00	2222	22215.46	500.00		4.473	5.000
59	10.00	22795	227947.95	500.00		3.002	5.000
115	10.00	28345	283447.67	500.00		2.912	5.000
206	10.00	5403	54032.48	500.00		2.811	5.000
207	10.00	4627	46270.54	500.00		2.455	5.000
208	10.00	11211	112111.13	500.00		2.394	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.558 %
Doubly Charged 70 / 140 0.804 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4337.81	8.95	8.90 - 9.10	
24	13928.54	23.95	23.90 - 24.10	
25	1875.33	24.90	24.90 - 25.10	
26	2141.41	25.95	25.90 - 26.10	
59	21751.60	58.95	58.90 - 59.10	
115	26748.12	115.00	114.90 - 115.10	
206	5153.34	205.95	205.90 - 206.10	
207	4613.81	206.95	206.90 - 207.10	
208	11314.12	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.484	0.900	
24	0.38	0.486	0.900	
25	0.38	0.495	0.900	
26	0.40	0.494	0.900	
59	0.37	0.522	0.900	
115	0.33	0.470	0.900	
206	0.36	0.533	0.900	
207	0.35	0.540	0.900	
208	0.35	0.533	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2518 V Pulse HV 1593 V

[H2]

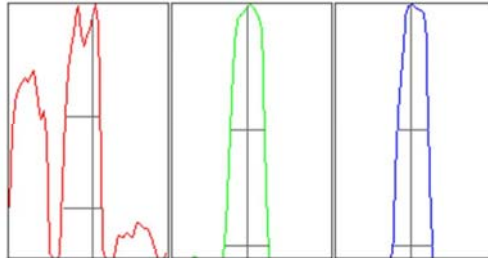
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		120	1198.84			10.113	
59		1549	15487.01			3.414	
115		21977	219773.98			2.346	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.414 %
 Doubly Charged 70 / 140 0.261 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	134.01	26.10	25.90 - 26.10	
59	1606.33	58.95	58.90 - 59.10	
115	23127.12	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.755	0.900	
59	0.65	0.824	0.900	
115	0.59	0.737	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2518 V	Pulse HV	1593 V
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[He]

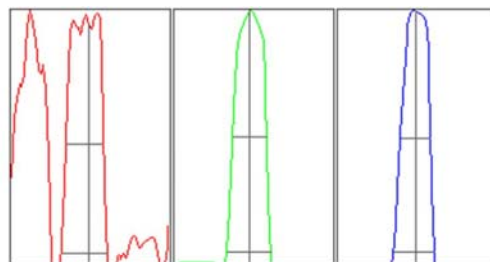
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		56	564.81			16.094	
59		4814	48143.95			2.665	
115		3820	38195.27			2.484	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.158 %
Doubly Charged	70 / 140 1.086 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	52.75	26.00	25.90 - 26.10	
59	4921.18	58.95	58.90 - 59.10	
115	3872.57	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.868	0.900	
59	0.64	0.822	0.900	
115	0.58	0.766	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2518 V	Pulse HV	1593 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\240210B.b
Acq. Date-Time 2024-02-12 12:25:54
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

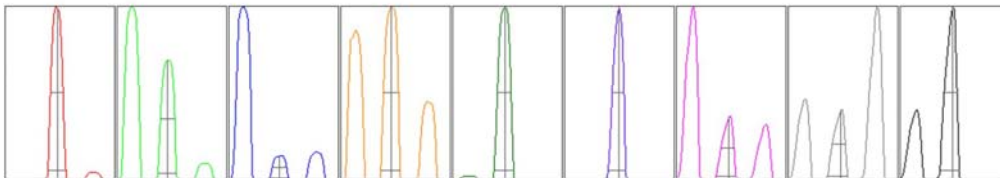
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9079	90794.13	500.00		2.117	5.000
24	10.00	24990	249904.28	500.00		1.640	5.000
25	10.00	3316	33158.34	500.00		2.480	5.000
26	10.00	3853	38527.63	500.00		2.645	5.000
59	10.00	35311	353109.28	500.00		1.636	5.000
115	10.00	29667	296666.64	500.00		1.795	5.000
206	10.00	6500	64998.18	500.00		2.485	5.000
207	10.00	5417	54169.42	500.00		2.493	5.000
208	10.00	13364	133635.89	500.00		2.015	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.503 %
Doubly Charged 70 / 140 1.227 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9236.14	8.95	8.90 - 9.10	
24	25669.34	23.90	23.90 - 24.10	
25	3370.18	24.90	24.90 - 25.10	
26	3966.49	25.90	25.90 - 26.10	
59	35321.58	58.95	58.90 - 59.10	
115	30169.65	115.00	114.90 - 115.10	
206	6277.42	205.95	205.90 - 206.10	
207	5505.14	206.95	206.90 - 207.10	
208	13877.48	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.35	0.485	0.900	
24	0.40	0.496	0.900	
25	0.40	0.494	0.900	
26	0.41	0.534	0.900	
59	0.38	0.530	0.900	
115	0.33	0.478	0.900	
206	0.36	0.539	0.900	
207	0.36	0.546	0.900	
208	0.36	0.537	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2518 V Pulse HV 1598 V

[H2]

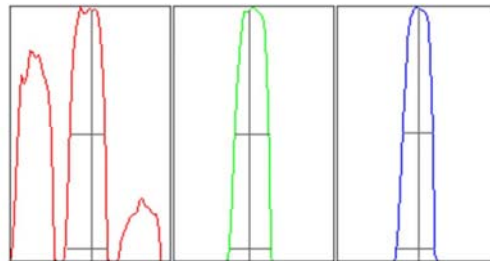
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		231	2306.76			7.456	
59		3650	36503.02			3.439	
115		30352	303518.58			2.531	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.518 %
 Doubly Charged 70 / 140 0.420 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	231.77	26.05	25.90 - 26.10	
59	3788.43	58.95	58.90 - 59.10	
115	31813.60	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.787	0.900	
59	0.65	0.783	0.900	
115	0.57	0.723	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2518 V	Pulse HV	1598 V
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[He]

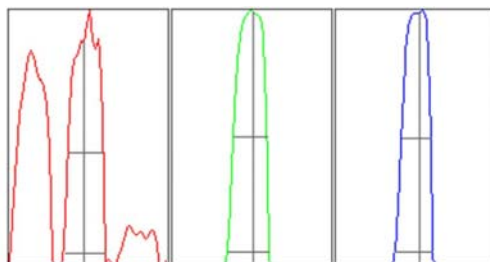
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		94	935.23			10.546	
59		7439	74391.29			2.040	
115		6032	60317.61			2.457	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.205 %
Doubly Charged	70 / 140 1.327 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	93.01	25.95	25.90 - 26.10	
59	7503.94	59.05	58.90 - 59.10	
115	6118.68	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.787	0.900	
59	0.64	0.780	0.900	
115	0.56	0.714	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2518 V	Pulse HV	1598 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 240208A

Instrument ID: ICPMS-03

Analyte	Data File	A0208003.d	A0208004.d	A0208005.d	A0208006.d	A0208007.d	A0208008.d	A0208009.d	A0208010.d	A0208011.d	
	Acq. Date-Time	02/08/2024 03:41 PM	02/08/2024 03:46 PM	02/08/2024 03:51 PM	02/08/2024 03:56 PM	02/08/2024 04:01 PM	02/08/2024 04:05 PM	02/08/2024 04:10 PM	02/08/2024 04:15 PM	02/08/2024 04:20 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
45 Sc (ISTD) [2]	CPS	36159.1		36968.7	36715.9	37205.8	36536.6	37189.1	37655.7	37338.3	
55 Mn [2]	CPS	38.7		590.9	6129.8	12295	24970.6	50995.6	128443.3	261949.6	0.9999
52 Cr [2]	CPS	200		1336.7	12084.4	24790.7	49775.4	101109.9	253799.6	516145.5	0.9999
72 Ge (ISTD) [1]	CPS	66318.4		66192.1	66671.9	66347.2	66365	65739.2	67265.3	67444.9	
78 Se [1]	CPS	2.2		95.6	781.1	1697.9	3403.7	6864.8	17361.5	35584.4	0.9999
72 Ge (ISTD) [2]	CPS	21180.4	21385.1	21341.7	21078	21330.6	21786.7	21694.4	21718.9	21622.1	
75 As [2]	CPS	10	30	145.5	1386.7	2827.9	5681.9	11855.1	29765.2	60854.8	0.9999
103 Rh (ISTD) [2]	CPS	536240		537358.7	537604.7	537627.5	537577.9	543286.8	544997.2	541751.6	
95 Mo [2]	CPS	37.8		602.2	6077.8	12541.6	24801.4	51370.7	130606.4	265663.4	0.9999
159 Tb (ISTD) [3]	CPS	1459761.1		1489010.2	1484480.3	1482289.1	1494616.3	1496030.3	1502793.9	1480357.9	
137 Ba [3]	CPS	90		1463.4	14116.6	28262.7	58235.5	119727.9	296593.2	603680.1	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240209A

Instrument ID: ICPMS-03

Analyte	Data File	A0209002.d	A0209004.d	A0209005.d	A0209006.d	A0209007.d	A0209008.d	A0209009.d	A0209010.d	R
	Acq. Date-Time	02/09/2024 12:25 PM	02/09/2024 12:34 PM	02/09/2024 12:39 PM	02/09/2024 12:44 PM	02/09/2024 12:49 PM	02/09/2024 12:54 PM	02/09/2024 12:58 PM	02/09/2024 01:10 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	33108.3	33087.1	33208.5	33392.2	32924.6	33401.1	33581.5	34108.1	
55 Mn [2]	CPS	99.9	613.1	5610.8	11590.5	22312	46804.3	117157.3	242788.5	1.0000
52 Cr [2]	CPS	321.1	1310.1	11271.6	22713.3	45622.5	92176.4	231394	477749.2	1.0000
72 Ge (ISTD) [1]	CPS	59588	58015.7	59651.5	59609.2	57218.4	58826.4	60085.2	60920.7	
78 Se [1]	CPS	1.1	81.1	755.6	1570.1	2971.4	6225.7	15855.5	32558	1.0000
159 Tb (ISTD) [3]	CPS	1450062.6	1455428.8	1488029.7	1473478.7	1481530.1	1521993.1	1529470.3	1551832.2	
137 Ba [3]	CPS	56.7	1526.8	13609.5	27845.1	56650.1	115271.4	293513.5	599055.3	1.0000

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 240212A

Instrument ID: ICPMS-03

Analyte	Data File	A0212003.d	A0212005.d	A0212006.d	A0212007.d	A0212008.d	A0212009.d	A0212010.d	A0212011.d	
	Acq. Date-Time	02/12/2024 02:55 PM	02/12/2024 03:04 PM	02/12/2024 03:09 PM	02/12/2024 03:14 PM	02/12/2024 03:19 PM	02/12/2024 03:23 PM	02/12/2024 03:28 PM	02/12/2024 03:33 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R	
72 Ge (ISTD) [1]	CPS	75214.1	74856.9	74562.2	72967.3	73858	73502	73827.9	72611.4	
78 Se [1]	CPS	3.3	105.6	977.8	1886.8	3941.6	7811.9	19337	38936.4	0.9999

Standard Code
ICAL: 2MSST-231120D
ICAL: 2MSST-231120E
ICAL: 2MWST-231130K
IS Mix: 2MWST-231130A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

535

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICV	Batch ID: R181417	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5685722							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.844	0.10	10.00	0	108	90	110				
Barium	10.076	1.0	10.00	0	101	90	110				
Manganese	106.034	0.50	100.0	0	106	90	110				
Molybdenum	10.586	0.50	10.00	0	106	90	110				
Selenium	10.537	0.50	10.00	0	105	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZ	Batch ID: R181417	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5685724							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.108	0.10	0.1000	0	108	80	120				
Barium	1.108	1.0	1.000	0	111	80	120				
Manganese	0.531	0.50	0.5000	0	106	80	120				
Molybdenum	0.574	0.50	0.5000	0	115	80	120				
Selenium	0.531	0.50	0.5000	0	106	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCV	Batch ID: R181417	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5685725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.496	0.10	20.00	0	97.5	90	110				
Barium	19.455	1.0	20.00	0	97.3	90	110				
Manganese	19.454	0.50	20.00	0	97.3	90	110				
Molybdenum	18.913	0.50	20.00	0	94.6	90	110				
Selenium	18.761	0.50	20.00	0	93.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685736			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.842	0.10	20.00	0	99.2	90	110				
Barium	19.085	1.0	20.00	0	95.4	90	110				
Manganese	18.461	0.50	20.00	0	92.3	90	110				
Molybdenum	20.257	0.50	20.00	0	101	90	110				
Selenium	19.043	0.50	20.00	0	95.2	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685750			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.960	0.10	20.00	0	94.8	90	110				
Barium	19.569	1.0	20.00	0	97.8	90	110				
Manganese	19.351	0.50	20.00	0	96.8	90	110				
Molybdenum	20.142	0.50	20.00	0	101	90	110				
Selenium	19.668	0.50	20.00	0	98.3	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685758			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.478	0.10	20.00	0	97.4	90	110				
Barium	19.501	1.0	20.00	0	97.5	90	110				
Manganese	19.225	0.50	20.00	0	96.1	90	110				
Molybdenum	19.984	0.50	20.00	0	99.9	90	110				
Selenium	19.487	0.50	20.00	0	97.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685769			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.296	0.10	20.00	0	101	90	110				
Barium	19.528	1.0	20.00	0	97.6	90	110				
Manganese	19.174	0.50	20.00	0	95.9	90	110				
Molybdenum	20.262	0.50	20.00	0	101	90	110				
Selenium	19.246	0.50	20.00	0	96.2	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685774			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.925	0.10	20.00	0	99.6	90	110				
Barium	19.724	1.0	20.00	0	98.6	90	110				
Manganese	19.296	0.50	20.00	0	96.5	90	110				
Molybdenum	20.085	0.50	20.00	0	100	90	110				
Selenium	19.353	0.50	20.00	0	96.8	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685788			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.309	0.10	20.00	0	96.5	90	110				
Barium	20.033	1.0	20.00	0	100	90	110				
Manganese	19.012	0.50	20.00	0	95.1	90	110				
Molybdenum	20.189	0.50	20.00	0	101	90	110				
Selenium	19.293	0.50	20.00	0	96.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685800			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.228	0.10	20.00	0	96.1	90	110				
Barium	19.963	1.0	20.00	0	99.8	90	110				
Manganese	19.128	0.50	20.00	0	95.6	90	110				
Molybdenum	20.586	0.50	20.00	0	103	90	110				
Selenium	20.329	0.50	20.00	0	102	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5685813			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.843	0.10	20.00	0	99.2	90	110				
Barium	19.898	1.0	20.00	0	99.5	90	110				
Manganese	19.123	0.50	20.00	0	95.6	90	110				
Molybdenum	20.277	0.50	20.00	0	101	90	110				
Selenium	19.974	0.50	20.00	0	99.9	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: CCV		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5685824			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.470	0.10	20.00	0	97.4	90	110				
Barium	20.111	1.0	20.00	0	101	90	110				
Manganese	19.274	0.50	20.00	0	96.4	90	110				
Molybdenum	20.291	0.50	20.00	0	101	90	110				
Selenium	20.160	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCV	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5685836						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.371	0.10	20.00	0	96.9	90	110				
Barium	20.308	1.0	20.00	0	102	90	110				
Manganese	18.982	0.50	20.00	0	94.9	90	110				
Molybdenum	20.514	0.50	20.00	0	103	90	110				
Selenium	19.408	0.50	20.00	0	97.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICV	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.492	0.10	10.00	0	105	90	110				
Barium	10.266	1.0	10.00	0	103	90	110				
Manganese	106.397	0.50	100.0	0	106	90	110				
Molybdenum	10.289	0.50	10.00	0	103	90	110				
Selenium	10.008	0.50	10.00	0	100	90	110				

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ZZZZZZ	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683836							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.101	0.10	0.1000	0	101	80	120				
Barium	1.071	1.0	1.000	0	107	80	120				
Manganese	0.476	0.50	0.5000	0	95.2	80	120				
Molybdenum	0.586	0.50	0.5000	0	117	80	120				
Selenium	0.410	0.50	0.5000	0	81.9	80	120				

Sample ID: MLCCV	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCV	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.542	0.10	20.00	0	97.7	90	110				
Barium	19.886	1.0	20.00	0	99.4	90	110				
Manganese	19.237	0.50	20.00	0	96.2	90	110				
Molybdenum	20.195	0.50	20.00	0	101	90	110				
Selenium	20.016	0.50	20.00	0	100	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683847			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.387	0.10	20.00	0	102	90	110				
Barium	19.985	1.0	20.00	0	99.9	90	110				
Manganese	19.049	0.50	20.00	0	95.2	90	110				
Molybdenum	20.040	0.50	20.00	0	100	90	110				
Selenium	18.907	0.50	20.00	0	94.5	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683854			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.389	0.10	20.00	0	96.9	90	110				
Barium	20.278	1.0	20.00	0	101	90	110				
Manganese	18.984	0.50	20.00	0	94.9	90	110				
Molybdenum	20.115	0.50	20.00	0	101	90	110				
Selenium	20.138	0.50	20.00	0	101	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683868			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.307	0.10	20.00	0	96.5	90	110				
Barium	20.496	1.0	20.00	0	102	90	110				
Manganese	19.047	0.50	20.00	0	95.2	90	110				
Molybdenum	20.562	0.50	20.00	0	103	90	110				
Selenium	19.479	0.50	20.00	0	97.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCV	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.784	0.10	20.00	0	98.9	90	110				
Barium	20.562	1.0	20.00	0	103	90	110				
Manganese	19.077	0.50	20.00	0	95.4	90	110				
Molybdenum	20.258	0.50	20.00	0	101	90	110				
Selenium	19.355	0.50	20.00	0	96.8	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCV	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.964	0.10	20.00	0	99.8	90	110				
Barium	20.627	1.0	20.00	0	103	90	110				
Manganese	18.510	0.50	20.00	0	92.5	90	110				
Molybdenum	20.370	0.50	20.00	0	102	90	110				
Selenium	19.843	0.50	20.00	0	99.2	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCV	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.469	0.10	20.00	0	97.3	90	110				
Barium	20.967	1.0	20.00	0	105	90	110				
Manganese	18.652	0.50	20.00	0	93.3	90	110				
Molybdenum	20.458	0.50	20.00	0	102	90	110				
Selenium	20.493	0.50	20.00	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683911			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.822	0.10	20.00	0	99.1	90	110				
Barium	20.509	1.0	20.00	0	103	90	110				
Manganese	19.043	0.50	20.00	0	95.2	90	110				
Molybdenum	20.372	0.50	20.00	0	102	90	110				
Selenium	19.093	0.50	20.00	0	95.5	90	110				

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683925			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.024	0.10	20.00	0	100	90	110				
Barium	20.928	1.0	20.00	0	105	90	110				
Manganese	18.660	0.50	20.00	0	93.3	90	110				
Molybdenum	20.329	0.50	20.00	0	102	90	110				
Selenium	18.849	0.50	20.00	0	94.2	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683934			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.732	0.10	20.00	0	98.7	90	110				
Barium	20.852	1.0	20.00	0	104	90	110				
Manganese	18.919	0.50	20.00	0	94.6	90	110				
Molybdenum	20.173	0.50	20.00	0	101	90	110				
Selenium	19.791	0.50	20.00	0	99.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683944			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.551	0.10	20.00	0	97.8	90	110				
Barium	21.034	1.0	20.00	0	105	90	110				
Manganese	18.817	0.50	20.00	0	94.1	90	110				
Molybdenum	20.576	0.50	20.00	0	103	90	110				
Selenium	20.028	0.50	20.00	0	100	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: CCV		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683956			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.490	0.10	20.00	0	97.5	90	110				
Barium	21.279	1.0	20.00	0	106	90	110				
Manganese	18.825	0.50	20.00	0	94.1	90	110				
Molybdenum	20.678	0.50	20.00	0	103	90	110				
Selenium	20.070	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV		SampType: ICV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: ICV		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687169			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.306	0.10	10.00	0	103	90	110				
Barium	9.975	1.0	10.00	0	99.8	90	110				
Manganese	102.017	0.50	100.0	0	102	90	110				
Molybdenum	9.930	0.50	10.00	0	99.3	90	110				
Selenium	9.700	0.50	10.00	0	97.0	90	110				

Sample ID: LLICV1		SampType: CCV1		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: ZZZZZ		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687171			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.106	0.10	0.1000	0	106	80	120				
Barium	1.021	1.0	1.000	0	102	80	120				
Manganese	0.547	0.50	0.5000	0	109	80	120				
Molybdenum	0.538	0.50	0.5000	0	108	80	120				
Selenium	0.519	0.50	0.5000	0	104	80	120				

Sample ID: MLCCV		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: CCV		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687172			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.275	0.10	20.00	0	96.4	90	110				
Barium	19.040	1.0	20.00	0	95.2	90	110				
Manganese	19.819	0.50	20.00	0	99.1	90	110				
Molybdenum	19.328	0.50	20.00	0	96.6	90	110				
Selenium	19.237	0.50	20.00	0	96.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCV	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687179						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.156	0.10	20.00	0	95.8	90	110				
Barium	19.742	1.0	20.00	0	98.7	90	110				
Manganese	19.559	0.50	20.00	0	97.8	90	110				
Molybdenum	19.400	0.50	20.00	0	97.0	90	110				
Selenium	19.060	0.50	20.00	0	95.3	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCV	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.923	0.10	20.00	0	94.6	90	110				
Barium	20.046	1.0	20.00	0	100	90	110				
Manganese	19.500	0.50	20.00	0	97.5	90	110				
Molybdenum	18.973	0.50	20.00	0	94.9	90	110				
Selenium	19.695	0.50	20.00	0	98.5	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCV	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.457	0.10	20.00	0	97.3	90	110				
Barium	20.534	1.0	20.00	0	103	90	110				
Manganese	19.376	0.50	20.00	0	96.9	90	110				
Molybdenum	19.324	0.50	20.00	0	96.6	90	110				
Selenium	18.892	0.50	20.00	0	94.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: CCV		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687212			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.327	0.10	20.00	0	96.6	90	110				
Barium	19.939	1.0	20.00	0	99.7	90	110				
Manganese	19.600	0.50	20.00	0	98.0	90	110				
Molybdenum	19.382	0.50	20.00	0	96.9	90	110				
Selenium	19.421	0.50	20.00	0	97.1	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: CCV		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687219			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.066	0.10	20.00	0	95.3	90	110				
Barium	20.028	1.0	20.00	0	100	90	110				
Manganese	19.659	0.50	20.00	0	98.3	90	110				
Molybdenum	19.235	0.50	20.00	0	96.2	90	110				
Selenium	19.656	0.50	20.00	0	98.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: ICV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682654	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	10.556	1.0	10.00	0	106	90	110
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Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: ZZZZZZ	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682656	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	1.042	1.0	1.000	0	104	80	120
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Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682657	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.401	1.0	20.00	0	97.0	90	110
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Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682668	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.589	1.0	20.00	0	97.9	90	110
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Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682682	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.737	1.0	20.00	0	98.7	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682690							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.705	1.0	20.00	0	98.5	90	110				
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Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682701							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.761	1.0	20.00	0	98.8	90	110				
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Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682706							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.604	1.0	20.00	0	98.0	90	110				
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Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682720							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.873	1.0	20.00	0	99.4	90	110				
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Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682732							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.649	1.0	20.00	0	98.2	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682745							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.872	1.0	20.00	0	99.4	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682756							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.765	1.0	20.00	0	98.8	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCV	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682768							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.674	1.0	20.00	0	98.4	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684023	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	10.696	1.0	10.00	0	107 90 110

Sample ID: LLICV1	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ZZZZZ	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684025	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	0.967	1.0	1.000	0	96.7 80 120

Sample ID: MLCCV	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684026	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	20.000	1.0	20.00	0	100 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684036	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.533	1.0	20.00	0	97.7 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684043	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.436	1.0	20.00	0	97.2 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.434	1.0	20.00	0	97.2	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.475	1.0	20.00	0	97.4	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.958	1.0	20.00	0	94.8	90	110				

Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.188	1.0	20.00	0	95.9	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.607	1.0	20.00	0	98.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684114							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.384	1.0	20.00	0	96.9	90	110				
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Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684123							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.764	1.0	20.00	0	98.8	90	110				
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Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684133							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.265	1.0	20.00	0	96.3	90	110				
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Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCV	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684145							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.240	1.0	20.00	0	96.2	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	0.058	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685759						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685789						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	0.069	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5685814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5685825							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: CCB	Batch ID: R181417	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5685837							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683869							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5683892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683903						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683926						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: CCB	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: ICB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.188	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.176	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687189						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.169	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.191	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687213						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.218	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: CCB	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687220						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.171	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682683						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682691						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682721	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/8/2024	SeqNo: 5682733	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682746	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5682757	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: CCB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684101							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684124							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: CCB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685727						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	21.412	0.10	20.00	0	107	80	120				
Barium	21.032	1.0	20.00	0	105	80	120				
Manganese	17.342	0.50	20.00	0	86.7	80	120				
Molybdenum	22.678	0.50	20.00	0	113	80	120				
Selenium	19.671	0.50	20.00	0	98.4	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: ICSAB		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685739			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.700	0.10	20.00	0	104	80	120				
Barium	20.764	1.0	20.00	0	104	80	120				
Manganese	17.076	0.50	20.00	0	85.4	80	120				
Molybdenum	22.598	0.50	20.00	0	113	80	120				
Selenium	20.123	0.50	20.00	0	101	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: ICSA		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685776			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181417			
Client ID: ICSAB		Batch ID: R181417		TestNo: EPA 6020		Analysis Date: 2/8/2024		SeqNo: 5685777			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.927	0.10	20.00	0	105	80	120				
Barium	21.111	1.0	20.00	0	106	80	120				
Manganese	17.177	0.50	20.00	0	85.9	80	120				
Molybdenum	22.549	0.50	20.00	0	113	80	120				
Selenium	20.241	0.50	20.00	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5685803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.877	0.10	20.00	0	104	80	120				
Barium	21.325	1.0	20.00	0	107	80	120				
Manganese	16.648	0.50	20.00	0	83.2	80	120				
Molybdenum	22.444	0.50	20.00	0	112	80	120				
Selenium	21.291	0.50	20.00	0	106	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSA	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5685838						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ICSAB	Batch ID: R181417	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5685839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.303	0.10	20.00	0	102	80	120				
Barium	20.861	1.0	20.00	0	104	80	120				
Manganese	16.936	0.50	20.00	0	84.7	80	120				
Molybdenum	22.519	0.50	20.00	0	113	80	120				
Selenium	20.310	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683838						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	22.167	0.10	20.00	0	111	80	120				
Barium	21.475	1.0	20.00	0	107	80	120				
Manganese	17.089	0.50	20.00	0	85.4	80	120				
Molybdenum	22.572	0.50	20.00	0	113	80	120				
Selenium	20.181	0.50	20.00	0	101	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSAB		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683857			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	22.255	0.10	20.00	0	111	80	120				
Barium	21.984	1.0	20.00	0	110	80	120				
Manganese	16.838	0.50	20.00	0	84.2	80	120				
Molybdenum	22.697	0.50	20.00	0	113	80	120				
Selenium	19.638	0.50	20.00	0	98.2	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSA		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683880			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSAB		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683881			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.232	0.10	20.00	0	106	80	120				
Barium	22.123	1.0	20.00	0	111	80	120				
Manganese	16.742	0.50	20.00	0	83.7	80	120				
Molybdenum	22.945	0.50	20.00	0	115	80	120				
Selenium	20.537	0.50	20.00	0	103	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683914						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.674	0.10	20.00	0	103	80	120
Barium	22.245	1.0	20.00	0	111	80	120
Manganese	16.621	0.50	20.00	0	83.1	80	120
Molybdenum	22.719	0.50	20.00	0	114	80	120
Selenium	21.036	0.50	20.00	0	105	80	120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ICSA	Batch ID: R181387	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5683946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSAB		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683947			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.991	0.10	20.00	0	105	80	120				
Barium	22.242	1.0	20.00	0	111	80	120				
Manganese	16.519	0.50	20.00	0	82.6	80	120				
Molybdenum	22.660	0.50	20.00	0	113	80	120				
Selenium	20.440	0.50	20.00	0	102	80	120				

Sample ID: ICSA6		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSA		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683958			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB6		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181387			
Client ID: ICSAB		Batch ID: R181387		TestNo: EPA 6020		Analysis Date: 2/9/2024		SeqNo: 5683959			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.230	0.10	20.00	0	106	80	120				
Barium	22.721	1.0	20.00	0	114	80	120				
Manganese	16.841	0.50	20.00	0	84.2	80	120				
Molybdenum	22.596	0.50	20.00	0	113	80	120				
Selenium	19.775	0.50	20.00	0	98.9	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: ICSA	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.175	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: ICSA	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	21.138	0.10	20.00	0	106	80	120
Barium	20.795	1.0	20.00	0	104	80	120
Manganese	16.320	0.50	20.00	0	81.6	80	120
Molybdenum	22.470	0.50	20.00	0	112	80	120
Selenium	20.081	0.50	20.00	0	100	80	120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181460						
Client ID: ICSA	Batch ID: R181460	TestNo: EPA 6020		Analysis Date: 2/12/2024	SeqNo: 5687190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.193	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: ICSAB		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687191			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.902	0.10	20.00	0	105	80	120				
Barium	21.629	1.0	20.00	0	108	80	120				
Manganese	16.464	0.50	20.00	0	82.3	80	120				
Molybdenum	22.510	0.50	20.00	0	113	80	120				
Selenium	19.374	0.50	20.00	0	96.9	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: ICSA		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687221			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.166	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 181460			
Client ID: ICSAB		Batch ID: R181460		TestNo: EPA 6020		Analysis Date: 2/12/2024		SeqNo: 5687222			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.379	0.10	20.00	0	107	80	120				
Barium	21.287	1.0	20.00	0	106	80	120				
Manganese	16.577	0.50	20.00	0	82.9	80	120				
Molybdenum	22.119	0.50	20.00	0	111	80	120				
Selenium	19.700	0.50	20.00	0	98.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682658						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682658						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.964	1.0	20.00	0	105	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682670						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682671						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.730	1.0	20.00	0	104	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSAB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.649	1.0	20.00	0	103	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSAB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/8/2024	SeqNo: 5682735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.638	1.0	20.00	0	103	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSA	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ICSAB	Batch ID: R181373	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5682771						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.805	1.0	20.00	0	104	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.786	1.0	20.00	0	104	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.737	1.0	20.00	0	104	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICSAB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	20.369	1.0	20.00	0	102 80 120

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684102	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICSAB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684103	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	20.339	1.0	20.00	0	102 80 120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684135	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393
Client ID: ICSAB	Batch ID: R181393	TestNo: EPA 6020	Analysis Date: 2/9/2024	SeqNo: 5684136	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	20.180	1.0	20.00	0	101 80 120

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSA	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB6	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ICSAB	Batch ID: R181393	TestNo: EPA 6020		Analysis Date: 2/9/2024	SeqNo: 5684148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.373	1.0	20.00	0	102	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1459761.1	1459761.1	100	PASS	30-150	36159.1	36159.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1476757.3	1459761.1	101.16	PASS	30-150	36365.1	36159.1	100.57	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1489010.2	1459761.1	102	PASS	30-150	36968.7	36159.1	102.24	PASS	30-150
Std3-5/50 ppb	ICAL	1	1484480.3	1459761.1	101.69	PASS	30-150	36715.9	36159.1	101.54	PASS	30-150
Std4-10/100 ppb	ICAL	1	1482289.1	1459761.1	101.54	PASS	30-150	37205.8	36159.1	102.89	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1494616.3	1459761.1	102.39	PASS	30-150	36536.6	36159.1	101.04	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1496030.3	1459761.1	102.48	PASS	30-150	37189.1	36159.1	102.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1502793.9	1459761.1	102.95	PASS	30-150	37655.7	36159.1	104.14	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1480357.9	1459761.1	101.41	PASS	30-150	37338.3	36159.1	103.26	PASS	30-150
ICV	ICV	1	1499566.4	1459761.1	102.73	PASS	30-150	36132.3	36159.1	99.93	PASS	30-150
ICB	ICB	1	1475865.1	1459761.1	101.1	PASS	30-150	36241.4	36159.1	100.23	PASS	30-150
LLICV1	LLICV	1	1479293.7	1459761.1	101.34	PASS	30-150	36571.1	36159.1	101.14	PASS	30-150
MLCCV	CCV	1	1485953	1459761.1	101.79	PASS	30-150	37100	36159.1	102.6	PASS	30-150
ICSA1	ICSA	1	1471023.9	1459761.1	100.77	PASS	30-150	36316.1	36159.1	100.43	PASS	30-150
ICSAB1	ICSAB	1	1355778.6	1459761.1	92.88	PASS	30-150	35459.8	36159.1	98.07	PASS	30-150
CCV1	CCV	1	1510911.2	1459761.1	103.5	PASS	30-150	37618.9	36159.1	104.04	PASS	30-150
CCB1	CCB	1	1494071.1	1459761.1	102.35	PASS	30-150	37108.9	36159.1	102.63	PASS	30-150
ICSA2	ICSA	1	1488201.4	1459761.1	101.95	PASS	30-150	36647.9	36159.1	101.35	PASS	30-150
ICSAB2	ICSAB	1	1395241	1459761.1	95.58	PASS	30-150	35828.4	36159.1	99.09	PASS	30-150
CCV2	CCV	1	1466699.2	1459761.1	100.48	PASS	30-150	36096.7	36159.1	99.83	PASS	30-150
CCB2	CCB	1	1468922.9	1459761.1	100.63	PASS	30-150	36572.2	36159.1	101.14	PASS	30-150
CCV3	CCV	1	1442912.7	1459761.1	98.85	PASS	30-150	36152.4	36159.1	99.98	PASS	30-150
CCB3	CCB	1	1444096.5	1459761.1	98.93	PASS	30-150	35954.1	36159.1	99.43	PASS	30-150
CCV4	CCV	1	1438743.6	1459761.1	98.56	PASS	30-150	36624.5	36159.1	101.29	PASS	30-150
CCB4	CCB	1	1450420.8	1459761.1	99.36	PASS	30-150	37096.7	36159.1	102.59	PASS	30-150
CCV5	CCV	1	1461320.6	1459761.1	100.11	PASS	30-150	36917.4	36159.1	102.1	PASS	30-150
CCB5	CCB	1	1441564.7	1459761.1	98.75	PASS	30-150	36985.3	36159.1	102.28	PASS	30-150
ICSA3	ICSA	1	1452805.6	1459761.1	99.52	PASS	30-150	36830.5	36159.1	101.86	PASS	30-150
ICSAB3	ICSAB	1	1357189.1	1459761.1	92.97	PASS	30-150	36267.1	36159.1	100.3	PASS	30-150
CCV6	CCV	1	1463158.5	1459761.1	100.23	PASS	30-150	36926.3	36159.1	102.12	PASS	30-150
CCB6	CCB	1	1475677.4	1459761.1	101.09	PASS	30-150	36741.5	36159.1	101.61	PASS	30-150
CCV7	CCV	1	1416769.8	1459761.1	97.06	PASS	30-150	37743.7	36159.1	104.38	PASS	30-150
CCB7	CCB	1	1413037.4	1459761.1	96.8	PASS	30-150	37269.3	36159.1	103.07	PASS	30-150
ICSA4	ICSA	1	1428502.4	1459761.1	97.86	PASS	30-150	36458.6	36159.1	100.83	PASS	30-150
ICSAB4	ICSAB	1	1332660.3	1459761.1	91.29	PASS	30-150	34963.2	36159.1	96.69	PASS	30-150
MB-106696	MBLK	1	1421506.1	1459761.1	97.38	PASS	30-150	36269.3	36159.1	100.3	PASS	30-150
LCS-106696	LCS	1	1477323.5	1459761.1	101.2	PASS	30-150	36859.5	36159.1	101.94	PASS	30-150
N062966-001C	SAMP	1	1452648.6	1459761.1	99.51	PASS	30-150	32914.7	36159.1	91.03	PASS	30-150
N062966-001C	SAMP	5	1442625.7	1459761.1	98.83	PASS	30-150	33308.7	36159.1	92.12	PASS	30-150
N062966-001C-PS	PS	1	1456902.4	1459761.1	99.8	PASS	30-150	32322.4	36159.1	89.39	PASS	30-150
N062966-001CMS	MS	1	1471166.7	1459761.1	100.78	PASS	30-150	32536.1	36159.1	89.98	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062966-001CMSD	MSD	1	1471682.6	1459761.1	100.82	PASS	30-150	32548.3	36159.1	90.01	PASS	30-150
CCV8	CCV	1	1455505.4	1459761.1	99.71	PASS	30-150	34959.9	36159.1	96.68	PASS	30-150
CCB8	CCB	1	1465762.2	1459761.1	100.41	PASS	30-150	34762.7	36159.1	96.14	PASS	30-150
N062966-003C	SAMP	1	1204963.2	1459761.1	82.55	PASS	30-150	30692.6	36159.1	84.88	PASS	30-150
N062966-005C	SAMP	1	1093009.3	1459761.1	74.88	PASS	30-150	29477.1	36159.1	81.52	PASS	30-150
N062966-006C	SAMP	1	1363135.5	1459761.1	93.38	PASS	30-150	33152.9	36159.1	91.69	PASS	30-150
N062966-008C	SAMP	1	1078159.8	1459761.1	73.86	PASS	30-150	28924	36159.1	79.99	PASS	30-150
N062966-009C	SAMP	1	1081727.3	1459761.1	74.1	PASS	30-150	29768.7	36159.1	82.33	PASS	30-150
N062966-010C	SAMP	1	1190470.3	1459761.1	81.55	PASS	30-150	31606.5	36159.1	87.41	PASS	30-150
N062966-012C	SAMP	1	1190615.5	1459761.1	81.56	PASS	30-150	31909.3	36159.1	88.25	PASS	30-150
N062966-013C	SAMP	1	1210635.6	1459761.1	82.93	PASS	30-150	32069.6	36159.1	88.69	PASS	30-150
N062966-014C	SAMP	1	1155241.9	1459761.1	79.14	PASS	30-150	31559.8	36159.1	87.28	PASS	30-150
CCV9	CCV	1	1383073.7	1459761.1	94.75	PASS	30-150	36350.6	36159.1	100.53	PASS	30-150
CCB9	CCB	1	1405914.8	1459761.1	96.31	PASS	30-150	35990.9	36159.1	99.53	PASS	30-150
N062966-015C	SAMP	1	1200799	1459761.1	82.26	PASS	30-150	30934.2	36159.1	85.55	PASS	30-150
N062966-016C	SAMP	1	1220215	1459761.1	83.59	PASS	30-150	31009.9	36159.1	85.76	PASS	30-150
N062966-017C	SAMP	1	1186411.1	1459761.1	81.27	PASS	30-150	30700.5	36159.1	84.9	PASS	30-150
N062966-017C	SAMP	5	1327673.5	1459761.1	90.95	PASS	30-150	33182.9	36159.1	91.77	PASS	30-150
N062966-017C-PS	PS	1	1211160.5	1459761.1	82.97	PASS	30-150	31521.9	36159.1	87.18	PASS	30-150
N062966-017CMS	MS	1	1226311.4	1459761.1	84.01	PASS	30-150	31775.8	36159.1	87.88	PASS	30-150
N062966-017CMSD	MSD	1	1204807.8	1459761.1	82.53	PASS	30-150	32046.3	36159.1	88.63	PASS	30-150
N062966-018C	SAMP	1	1198109.3	1459761.1	82.08	PASS	30-150	32315.7	36159.1	89.37	PASS	30-150
N062966-019C	SAMP	1	1180825.7	1459761.1	80.89	PASS	30-150	31062.2	36159.1	85.9	PASS	30-150
N062966-020C	SAMP	1	1174831.3	1459761.1	80.48	PASS	30-150	30893	36159.1	85.44	PASS	30-150
CCV10	CCV	1	1390674.6	1459761.1	95.27	PASS	30-150	36711.4	36159.1	101.53	PASS	30-150
CCB10	CCB	1	1394549.4	1459761.1	95.53	PASS	30-150	35913	36159.1	99.32	PASS	30-150
ICSA5	ICSA	1	1415034	1459761.1	96.94	PASS	30-150	35482.1	36159.1	98.13	PASS	30-150
ICSAB5	ICSAB	1	1317861.3	1459761.1	90.28	PASS	30-150	34043.6	36159.1	94.15	PASS	30-150
CCV11	CCV	1	1367336.3	1459761.1	93.67	PASS	30-150	36616.7	36159.1	101.27	PASS	30-150
CCB11	CCB	1	1377244.7	1459761.1	94.35	PASS	30-150	35888.5	36159.1	99.25	PASS	30-150
ICSA6	ICSA	1	1405709.7	1459761.1	96.3	PASS	30-150	35089	36159.1	97.04	PASS	30-150
ICSAB6	ICSAB	1	1306703.9	1459761.1	89.51	PASS	30-150	33749.6	36159.1	93.34	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	21180.4	21180.4	100	PASS	30-150	66318.4	66318.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	21385.1	21180.4	100.97	PASS	30-150	65935.6	66318.4	99.42	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	21341.7	21180.4	100.76	PASS	30-150	66192.1	66318.4	99.81	PASS	30-150
Std3-5/50 ppb	ICAL	1	21078	21180.4	99.52	PASS	30-150	66671.9	66318.4	100.53	PASS	30-150
Std4-10/100 ppb	ICAL	1	21330.6	21180.4	100.71	PASS	30-150	66347.2	66318.4	100.04	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	21786.7	21180.4	102.86	PASS	30-150	66365	66318.4	100.07	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	21694.4	21180.4	102.43	PASS	30-150	65739.2	66318.4	99.13	PASS	30-150
Std7-100/1000 ppb	ICAL	1	21718.9	21180.4	102.54	PASS	30-150	67265.3	66318.4	101.43	PASS	30-150
Std8-200/2000 ppb	ICAL	1	21622.1	21180.4	102.09	PASS	30-150	67444.9	66318.4	101.7	PASS	30-150
ICV	ICV	1	21098.1	21180.4	99.61	PASS	30-150	66365	66318.4	100.07	PASS	30-150
ICB	ICB	1	21001.3	21180.4	99.15	PASS	30-150	65815	66318.4	99.24	PASS	30-150
LLICV1	LLICV	1	21425.2	21180.4	101.16	PASS	30-150	66853.8	66318.4	100.81	PASS	30-150
MLCCV	CCV	1	21349.5	21180.4	100.8	PASS	30-150	67085.9	66318.4	101.16	PASS	30-150
ICSA1	ICSA	1	20965.7	21180.4	98.99	PASS	30-150	66175.3	66318.4	99.78	PASS	30-150
ICSAB1	ICSAB	1	19905.5	21180.4	93.98	PASS	30-150	61556.3	66318.4	92.82	PASS	30-150
CCV1	CCV	1	21157.1	21180.4	99.89	PASS	30-150	65790.5	66318.4	99.2	PASS	30-150
CCB1	CCB	1	21149.2	21180.4	99.85	PASS	30-150	66798.9	66318.4	100.72	PASS	30-150
ICSA2	ICSA	1	21456.3	21180.4	101.3	PASS	30-150	67057.9	66318.4	101.12	PASS	30-150
ICSAB2	ICSAB	1	20188.1	21180.4	95.32	PASS	30-150	62264.6	66318.4	93.89	PASS	30-150
CCV2	CCV	1	20907.8	21180.4	98.71	PASS	30-150	63813.9	66318.4	96.22	PASS	30-150
CCB2	CCB	1	20824.4	21180.4	98.32	PASS	30-150	66569.2	66318.4	100.38	PASS	30-150
CCV3	CCV	1	20902.3	21180.4	98.69	PASS	30-150	64580.1	66318.4	97.38	PASS	30-150
CCB3	CCB	1	21033.5	21180.4	99.31	PASS	30-150	66388.5	66318.4	100.11	PASS	30-150
CCV4	CCV	1	20955.7	21180.4	98.94	PASS	30-150	66151.9	66318.4	99.75	PASS	30-150
CCB4	CCB	1	20989	21180.4	99.1	PASS	30-150	66631.5	66318.4	100.47	PASS	30-150
CCV5	CCV	1	21277.2	21180.4	100.46	PASS	30-150	66757.6	66318.4	100.66	PASS	30-150
CCB5	CCB	1	21517.5	21180.4	101.59	PASS	30-150	67422.8	66318.4	101.67	PASS	30-150
ICSA3	ICSA	1	21597.6	21180.4	101.97	PASS	30-150	67116.9	66318.4	101.2	PASS	30-150
ICSAB3	ICSAB	1	20442.8	21180.4	96.52	PASS	30-150	62126.2	66318.4	93.68	PASS	30-150
CCV6	CCV	1	21186	21180.4	100.03	PASS	30-150	65234.8	66318.4	98.37	PASS	30-150
CCB6	CCB	1	21000.1	21180.4	99.15	PASS	30-150	66677.4	66318.4	100.54	PASS	30-150
CCV7	CCV	1	21726.6	21180.4	102.58	PASS	30-150	66908.3	66318.4	100.89	PASS	30-150
CCB7	CCB	1	21735.6	21180.4	102.62	PASS	30-150	66918.5	66318.4	100.9	PASS	30-150
ICSA4	ICSA	1	21315	21180.4	100.64	PASS	30-150	65653.2	66318.4	99	PASS	30-150
ICSAB4	ICSAB	1	19800.9	21180.4	93.49	PASS	30-150	59356	66318.4	89.5	PASS	30-150
MB-106696	MBLK	1	20989.1	21180.4	99.1	PASS	30-150	64601.3	66318.4	97.41	PASS	30-150
LCS-106696	LCS	1	21303.9	21180.4	100.58	PASS	30-150	66153.1	66318.4	99.75	PASS	30-150
N062966-001C	SAMP	1	19325.9	21180.4	91.24	PASS	30-150	57060.1	66318.4	86.04	PASS	30-150
N062966-001C	SAMP	5	19932.2	21180.4	94.11	PASS	30-150	59764.1	66318.4	90.12	PASS	30-150
N062966-001C-PS	PS	1	19027.8	21180.4	89.84	PASS	30-150	58019.2	66318.4	87.49	PASS	30-150
N062966-001CMS	MS	1	19507.2	21180.4	92.1	PASS	30-150	57555.2	66318.4	86.79	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N062966-001CMSD	MSD	1	19264.7	21180.4	90.96	PASS	30-150	57984.4	66318.4	87.43	PASS	30-150
CCV8	CCV	1	19918.8	21180.4	94.04	PASS	30-150	61181.6	66318.4	92.25	PASS	30-150
CCB8	CCB	1	20244.8	21180.4	95.58	PASS	30-150	61651.2	66318.4	92.96	PASS	30-150
N062966-003C	SAMP	1	16988.8	21180.4	80.21	PASS	30-150	49280.6	66318.4	74.31	PASS	30-150
N062966-005C	SAMP	1	16309.3	21180.4	77	PASS	30-150	47263.6	66318.4	71.27	PASS	30-150
N062966-006C	SAMP	1	19030	21180.4	89.85	PASS	30-150	56882.9	66318.4	85.77	PASS	30-150
N062966-008C	SAMP	1	16258.1	21180.4	76.76	PASS	30-150	45847.3	66318.4	69.13	PASS	30-150
N062966-009C	SAMP	1	16567.3	21180.4	78.22	PASS	30-150	47143.2	66318.4	71.09	PASS	30-150
N062966-010C	SAMP	1	17907.6	21180.4	84.55	PASS	30-150	52578.5	66318.4	79.28	PASS	30-150
N062966-012C	SAMP	1	17862.1	21180.4	84.33	PASS	30-150	52235.2	66318.4	78.76	PASS	30-150
N062966-013C	SAMP	1	18454.9	21180.4	87.13	PASS	30-150	52750.2	66318.4	79.54	PASS	30-150
N062966-014C	SAMP	1	17498.3	21180.4	82.62	PASS	30-150	51232	66318.4	77.25	PASS	30-150
CCV9	CCV	1	21009.1	21180.4	99.19	PASS	30-150	63872.9	66318.4	96.31	PASS	30-150
CCB9	CCB	1	20735.4	21180.4	97.9	PASS	30-150	63971.1	66318.4	96.46	PASS	30-150
N062966-015C	SAMP	1	17241.4	21180.4	81.4	PASS	30-150	50099.6	66318.4	75.54	PASS	30-150
N062966-016C	SAMP	1	17129	21180.4	80.87	PASS	30-150	50970.2	66318.4	76.86	PASS	30-150
N062966-017C	SAMP	1	17233.6	21180.4	81.37	PASS	30-150	50347.1	66318.4	75.92	PASS	30-150
N062966-017C	SAMP	5	18984.4	21180.4	89.63	PASS	30-150	57166.1	66318.4	86.2	PASS	30-150
N062966-017C-PS	PS	1	17904.3	21180.4	84.53	PASS	30-150	51928.7	66318.4	78.3	PASS	30-150
N062966-017CMS	MS	1	18072.2	21180.4	85.33	PASS	30-150	52519.4	66318.4	79.19	PASS	30-150
N062966-017CMSD	MSD	1	17764.1	21180.4	83.87	PASS	30-150	52550.8	66318.4	79.24	PASS	30-150
N062966-018C	SAMP	1	18144.5	21180.4	85.67	PASS	30-150	52830.5	66318.4	79.66	PASS	30-150
N062966-019C	SAMP	1	17487.2	21180.4	82.56	PASS	30-150	51253.2	66318.4	77.28	PASS	30-150
N062966-020C	SAMP	1	17451.6	21180.4	82.4	PASS	30-150	50430.7	66318.4	76.04	PASS	30-150
CCV10	CCV	1	21149.3	21180.4	99.85	PASS	30-150	64890.2	66318.4	97.85	PASS	30-150
CCB10	CCB	1	20847.7	21180.4	98.43	PASS	30-150	64274.5	66318.4	96.92	PASS	30-150
ICSA5	ICSA	1	20838.8	21180.4	98.39	PASS	30-150	64242.2	66318.4	96.87	PASS	30-150
ICSAB5	ICSAB	1	19442.7	21180.4	91.8	PASS	30-150	58332.4	66318.4	87.96	PASS	30-150
CCV11	CCV	1	21269.4	21180.4	100.42	PASS	30-150	64785.5	66318.4	97.69	PASS	30-150
CCB11	CCB	1	21145.9	21180.4	99.84	PASS	30-150	63823.9	66318.4	96.24	PASS	30-150
ICSA6	ICSA	1	20423.9	21180.4	96.43	PASS	30-150	64069.2	66318.4	96.61	PASS	30-150
ICSAB6	ICSAB	1	19292.5	21180.4	91.09	PASS	30-150	57874	66318.4	87.27	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	536240	536240	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	540047.7	536240	100.71	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	537358.7	536240	100.21	PASS	30-150
Std3-5/50 ppb	ICAL	1	537604.7	536240	100.25	PASS	30-150
Std4-10/100 ppb	ICAL	1	537627.5	536240	100.26	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	537577.9	536240	100.25	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	543286.8	536240	101.31	PASS	30-150
Std7-100/1000 ppb	ICAL	1	544997.2	536240	101.63	PASS	30-150
Std8-200/2000 ppb	ICAL	1	541751.6	536240	101.03	PASS	30-150
ICV	ICV	1	534964.8	536240	99.76	PASS	30-150
ICB	ICB	1	530615.3	536240	98.95	PASS	30-150
LLICV1	LLICV	1	536253.6	536240	100	PASS	30-150
MLCCV	CCV	1	539834.9	536240	100.67	PASS	30-150
ICSA1	ICSA	1	528576	536240	98.57	PASS	30-150
ICSAB1	ICSAB	1	476076.8	536240	88.78	PASS	30-150
CCV1	CCV	1	519654.4	536240	96.91	PASS	30-150
CCB1	CCB	1	539791.6	536240	100.66	PASS	30-150
ICSA2	ICSA	1	538600.6	536240	100.44	PASS	30-150
ICSAB2	ICSAB	1	475054.8	536240	88.59	PASS	30-150
CCV2	CCV	1	506151.2	536240	94.39	PASS	30-150
CCB2	CCB	1	528310.8	536240	98.52	PASS	30-150
CCV3	CCV	1	509976.4	536240	95.1	PASS	30-150
CCB3	CCB	1	529372.3	536240	98.72	PASS	30-150
CCV4	CCV	1	511005.1	536240	95.29	PASS	30-150
CCB4	CCB	1	533268.1	536240	99.45	PASS	30-150
CCV5	CCV	1	513377.4	536240	95.74	PASS	30-150
CCB5	CCB	1	534645.1	536240	99.7	PASS	30-150
ICSA3	ICSA	1	530056.3	536240	98.85	PASS	30-150
ICSAB3	ICSAB	1	475609.3	536240	88.69	PASS	30-150
CCV6	CCV	1	515027	536240	96.04	PASS	30-150
CCB6	CCB	1	531591.9	536240	99.13	PASS	30-150
CCV7	CCV	1	509660.6	536240	95.04	PASS	30-150
CCB7	CCB	1	528407.3	536240	98.54	PASS	30-150
ICSA4	ICSA	1	525449.2	536240	97.99	PASS	30-150
ICSAB4	ICSAB	1	464882.9	536240	86.69	PASS	30-150
MB-106696	MBLK	1	522910.8	536240	97.51	PASS	30-150
LCS-106696	LCS	1	535089.1	536240	99.79	PASS	30-150
N062966-001C	SAMP	1	465441.9	536240	86.8	PASS	30-150
N062966-001C	SAMP	5	484948.4	536240	90.43	PASS	30-150
N062966-001C-PS	PS	1	460790.9	536240	85.93	PASS	30-150
N062966-001CMS	MS	1	471702.1	536240	87.96	PASS	30-150

INTERNAL STANDARD: 240208A

Instrument ID: ICPMS-03

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N062966-001CMSD	MSD	1	475013.3	536240	88.58	PASS	30-150
CCV8	CCV	1	497584	536240	92.79	PASS	30-150
CCB8	CCB	1	512182.7	536240	95.51	PASS	30-150
N062966-003C	SAMP	1	393840.7	536240	73.44	PASS	30-150
N062966-005C	SAMP	1	371474.9	536240	69.27	PASS	30-150
N062966-006C	SAMP	1	455666.3	536240	84.97	PASS	30-150
N062966-008C	SAMP	1	363612.3	536240	67.81	PASS	30-150
N062966-009C	SAMP	1	370170.5	536240	69.03	PASS	30-150
N062966-010C	SAMP	1	399484.2	536240	74.5	PASS	30-150
N062966-012C	SAMP	1	399757	536240	74.55	PASS	30-150
N062966-013C	SAMP	1	408898.5	536240	76.25	PASS	30-150
N062966-014C	SAMP	1	398507.3	536240	74.32	PASS	30-150
CCV9	CCV	1	500825.9	536240	93.4	PASS	30-150
CCB9	CCB	1	510527.2	536240	95.2	PASS	30-150
N062966-015C	SAMP	1	393866.8	536240	73.45	PASS	30-150
N062966-016C	SAMP	1	397745	536240	74.17	PASS	30-150
N062966-017C	SAMP	1	394897.4	536240	73.64	PASS	30-150
N062966-017C	SAMP	5	446442.1	536240	83.25	PASS	30-150
N062966-017C-PS	PS	1	405148.4	536240	75.55	PASS	30-150
N062966-017CMS	MS	1	408340.8	536240	76.15	PASS	30-150
N062966-017CMSD	MSD	1	406479.6	536240	75.8	PASS	30-150
N062966-018C	SAMP	1	399847.7	536240	74.57	PASS	30-150
N062966-019C	SAMP	1	398651	536240	74.34	PASS	30-150
N062966-020C	SAMP	1	390494	536240	72.82	PASS	30-150
CCV10	CCV	1	497862.6	536240	92.84	PASS	30-150
CCB10	CCB	1	515104.3	536240	96.06	PASS	30-150
ICSA5	ICSA	1	509415.6	536240	95	PASS	30-150
ICSAB5	ICSAB	1	451076.8	536240	84.12	PASS	30-150
CCV11	CCV	1	496898.7	536240	92.66	PASS	30-150
CCB11	CCB	1	507991.4	536240	94.73	PASS	30-150
ICSA6	ICSA	1	508294.3	536240	94.79	PASS	30-150
ICSAB6	ICSAB	1	448197.1	536240	83.58	PASS	30-150

INTERNAL STANDARD: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1450062.6	1450062.6	100	PASS	30-150	33108.3	33108.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1477607.5	1450062.6	101.9	PASS	30-150	33802	33108.3	102.1	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1455428.8	1450062.6	100.37	PASS	30-150	33087.1	33108.3	99.94	PASS	30-150
Std3-5/50 ppb	ICAL	1	1488029.7	1450062.6	102.62	PASS	30-150	33208.5	33108.3	100.3	PASS	30-150
Std4-10/100 ppb	ICAL	1	1473478.7	1450062.6	101.61	PASS	30-150	33392.2	33108.3	100.86	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1481530.1	1450062.6	102.17	PASS	30-150	32924.6	33108.3	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1521993.1	1450062.6	104.96	PASS	30-150	33401.1	33108.3	100.88	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1529470.3	1450062.6	105.48	PASS	30-150	33581.5	33108.3	101.43	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1551832.2	1450062.6	107.02	PASS	30-150	34108.1	33108.3	103.02	PASS	30-150
ICV	ICV	1	1541913.4	1450062.6	106.33	PASS	30-150	32963.5	33108.3	99.56	PASS	30-150
ICB	ICB	1	1494120.1	1450062.6	103.04	PASS	30-150	31747.9	33108.3	95.89	PASS	30-150
LLICV1	LLICV	1	1520225	1450062.6	104.84	PASS	30-150	32988.1	33108.3	99.64	PASS	30-150
MLCCV	CCV	1	1481341.5	1450062.6	102.16	PASS	30-150	32797.7	33108.3	99.06	PASS	30-150
ICSA1	ICSA	1	1486942.9	1450062.6	102.54	PASS	30-150	33138.4	33108.3	100.09	PASS	30-150
ICSAB1	ICSAB	1	1375767.7	1450062.6	94.88	PASS	30-150	33066	33108.3	99.87	PASS	30-150
CCV1	CCV	1	1499915.4	1450062.6	103.44	PASS	30-150	34612.5	33108.3	104.54	PASS	30-150
CCB1	CCB	1	1487672.6	1450062.6	102.59	PASS	30-150	34536.8	33108.3	104.31	PASS	30-150
CCV2	CCV	1	1483576.9	1450062.6	102.31	PASS	30-150	35799.4	33108.3	108.13	PASS	30-150
CCB2	CCB	1	1481415.9	1450062.6	102.16	PASS	30-150	35192.5	33108.3	106.3	PASS	30-150
ICSA2	ICSA	1	1495506.1	1450062.6	103.13	PASS	30-150	35284.9	33108.3	106.57	PASS	30-150
ICSAB2	ICSAB	1	1360754.8	1450062.6	93.84	PASS	30-150	34737.2	33108.3	104.92	PASS	30-150
LCS-106696	LCS	1	1492661.6	1450062.6	102.94	PASS	30-150	37171.3	33108.3	112.27	PASS	30-150
N062966-001C	SAMP	10	1450810.9	1450062.6	100.05	PASS	30-150	33996.8	33108.3	102.68	PASS	30-150
N062966-001C	SAMP	50	1455691.6	1450062.6	100.39	PASS	30-150	34243.9	33108.3	103.43	PASS	30-150
N062966-001C-PS	PS	10	1467474.9	1450062.6	101.2	PASS	30-150	33321	33108.3	100.64	PASS	30-150
N062966-001CMS	MS	10	1466721.1	1450062.6	101.15	PASS	30-150	33689.5	33108.3	101.76	PASS	30-150
N062966-001CMSD	MSD	10	1471121	1450062.6	101.45	PASS	30-150	34109.2	33108.3	103.02	PASS	30-150
N062966-006C	SAMP	10	1451804.8	1450062.6	100.12	PASS	30-150	33717.3	33108.3	101.84	PASS	30-150
N062966-009C	SAMP	10	1355356.1	1450062.6	93.47	PASS	30-150	33303.2	33108.3	100.59	PASS	30-150
N062966-012C	SAMP	10	1421184.4	1450062.6	98.01	PASS	30-150	33589.3	33108.3	101.45	PASS	30-150
N062966-013C	SAMP	10	1429185.1	1450062.6	98.56	PASS	30-150	32802.2	33108.3	99.08	PASS	30-150
CCV3	CCV	1	1489474.2	1450062.6	102.72	PASS	30-150	36510.9	33108.3	110.28	PASS	30-150
CCB3	CCB	1	1491990.9	1450062.6	102.89	PASS	30-150	35980.9	33108.3	108.68	PASS	30-150
N062966-014C	SAMP	10	1409280.6	1450062.6	97.19	PASS	30-150	33732.9	33108.3	101.89	PASS	30-150
N062966-017C	SAMP	10	1398217.1	1450062.6	96.42	PASS	30-150	33443.4	33108.3	101.01	PASS	30-150
N062966-017C	SAMP	50	1449532.4	1450062.6	99.96	PASS	30-150	34129.3	33108.3	103.08	PASS	30-150
N062966-017C-PS	PS	10	1404753.8	1450062.6	96.88	PASS	30-150	33234.1	33108.3	100.38	PASS	30-150
N062966-017CMS	MS	10	1409879.3	1450062.6	97.23	PASS	30-150	33735.1	33108.3	101.89	PASS	30-150
N062966-017CMSD	MSD	10	1424466.1	1450062.6	98.23	PASS	30-150	33639.4	33108.3	101.6	PASS	30-150
N062966-019C	SAMP	10	1400878.8	1450062.6	96.61	PASS	30-150	33682.9	33108.3	101.74	PASS	30-150
N062966-020C	SAMP	10	1422956.1	1450062.6	98.13	PASS	30-150	33920	33108.3	102.45	PASS	30-150

INTERNAL STANDARD: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV4	CCV	1	1493573.1	1450062.6	103	PASS	30-150	36225.9	33108.3	109.42	PASS	30-150
CCB4	CCB	1	1481685.6	1450062.6	102.18	PASS	30-150	35620.1	33108.3	107.59	PASS	30-150
ICSA3	ICSA	1	1510812.6	1450062.6	104.19	PASS	30-150	36073.4	33108.3	108.96	PASS	30-150
ICSAB3	ICSAB	1	1368717.8	1450062.6	94.39	PASS	30-150	35963.1	33108.3	108.62	PASS	30-150
CCV5	CCV	1	1454063.6	1450062.6	100.28	PASS	30-150	36163.6	33108.3	109.23	PASS	30-150
CCB5	CCB	1	1470096.3	1450062.6	101.38	PASS	30-150	35488.7	33108.3	107.19	PASS	30-150
CCV6	CCV	1	1442289	1450062.6	99.46	PASS	30-150	36447.5	33108.3	110.09	PASS	30-150
CCB6	CCB	1	1457670.4	1450062.6	100.52	PASS	30-150	36003.2	33108.3	108.74	PASS	30-150
CCV7	CCV	1	1466681.8	1450062.6	101.15	PASS	30-150	34894.2	33108.3	105.39	PASS	30-150
CCB7	CCB	1	1467695.6	1450062.6	101.22	PASS	30-150	34569	33108.3	104.41	PASS	30-150
ICSA4	ICSA	1	1495719.5	1450062.6	103.15	PASS	30-150	35073.4	33108.3	105.94	PASS	30-150
ICSAB4	ICSAB	1	1361904.2	1450062.6	93.92	PASS	30-150	33809.7	33108.3	102.12	PASS	30-150
CCV8	CCV	1	1458014.8	1450062.6	100.55	PASS	30-150	35919.7	33108.3	108.49	PASS	30-150
CCB8	CCB	1	1467277.7	1450062.6	101.19	PASS	30-150	35688.1	33108.3	107.79	PASS	30-150
CCV9	CCV	1	1484490.1	1450062.6	102.37	PASS	30-150	34972.1	33108.3	105.63	PASS	30-150
CCB9	CCB	1	1468802.3	1450062.6	101.29	PASS	30-150	35012.2	33108.3	105.75	PASS	30-150
CCV10	CCV	1	1428699.2	1450062.6	98.53	PASS	30-150	35457.6	33108.3	107.1	PASS	30-150
CCB10	CCB	1	1437848.4	1450062.6	99.16	PASS	30-150	34988.8	33108.3	105.68	PASS	30-150
ICSA5	ICSA	1	1457633.2	1450062.6	100.52	PASS	30-150	34644.8	33108.3	104.64	PASS	30-150
ICSAB5	ICSAB	1	1334872.4	1450062.6	92.06	PASS	30-150	33925.5	33108.3	102.47	PASS	30-150
CCV11	CCV	1	1408420.4	1450062.6	97.13	PASS	30-150	35734.8	33108.3	107.93	PASS	30-150
CCB11	CCB	1	1424916.6	1450062.6	98.27	PASS	30-150	34578	33108.3	104.44	PASS	30-150
ICSA6	ICSA	1	1439183.6	1450062.6	99.25	PASS	30-150	34675.9	33108.3	104.73	PASS	30-150
ICSAB6	ICSAB	1	1296887.5	1450062.6	89.44	PASS	30-150	33843.2	33108.3	102.22	PASS	30-150

INTERNAL STANDARD: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	59588	59588	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	59301.3	59588	99.52	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	58015.7	59588	97.36	PASS	30-150
Std3-5/50 ppb	ICAL	1	59651.5	59588	100.11	PASS	30-150
Std4-10/100 ppb	ICAL	1	59609.2	59588	100.04	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	57218.4	59588	96.02	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	58826.4	59588	98.72	PASS	30-150
Std7-100/1000 ppb	ICAL	1	60085.2	59588	100.83	PASS	30-150
Std8-200/2000 ppb	ICAL	1	60920.7	59588	102.24	PASS	30-150
ICV	ICV	1	59342.7	59588	99.59	PASS	30-150
ICB	ICB	1	57516.2	59588	96.52	PASS	30-150
LLICV1	LLICV	1	58068.1	59588	97.45	PASS	30-150
MLCCV	CCV	1	58675.8	59588	98.47	PASS	30-150
ICSA1	ICSA	1	59089.5	59588	99.16	PASS	30-150
ICSAB1	ICSAB	1	56290.9	59588	94.47	PASS	30-150
CCV1	CCV	1	60791.3	59588	102.02	PASS	30-150
CCB1	CCB	1	62061.5	59588	104.15	PASS	30-150
CCV2	CCV	1	62012.5	59588	104.07	PASS	30-150
CCB2	CCB	1	63049.7	59588	105.81	PASS	30-150
ICSA2	ICSA	1	63849.6	59588	107.15	PASS	30-150
ICSAB2	ICSAB	1	60291.7	59588	101.18	PASS	30-150
LCS-106696	LCS	1	67327.7	59588	112.99	PASS	30-150
N062966-001C	SAMP	10	61130.3	59588	102.59	PASS	30-150
N062966-001C	SAMP	50	62924.9	59588	105.6	PASS	30-150
N062966-001C-PS	PS	10	59080.5	59588	99.15	PASS	30-150
N062966-001CMS	MS	10	60733.2	59588	101.92	PASS	30-150
N062966-001CMSD	MSD	10	60582.6	59588	101.67	PASS	30-150
N062966-006C	SAMP	10	59928.1	59588	100.57	PASS	30-150
N062966-009C	SAMP	10	58330.2	59588	97.89	PASS	30-150
N062966-012C	SAMP	10	59265.8	59588	99.46	PASS	30-150
N062966-013C	SAMP	10	59364.9	59588	99.63	PASS	30-150
CCV3	CCV	1	64949.4	59588	109	PASS	30-150
CCB3	CCB	1	65402.3	59588	109.76	PASS	30-150
N062966-014C	SAMP	10	59345	59588	99.59	PASS	30-150
N062966-017C	SAMP	10	59067.3	59588	99.13	PASS	30-150
N062966-017C	SAMP	50	62372.8	59588	104.67	PASS	30-150
N062966-017C-PS	PS	10	58546.5	59588	98.25	PASS	30-150
N062966-017CMS	MS	10	59089.6	59588	99.16	PASS	30-150
N062966-017CMSD	MSD	10	58969	59588	98.96	PASS	30-150
N062966-019C	SAMP	10	58840.9	59588	98.75	PASS	30-150
N062966-020C	SAMP	10	59739.6	59588	100.25	PASS	30-150

INTERNAL STANDARD: 240209A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
CCV4	CCV	1	64118.3	59588	107.6	PASS	30-150
CCB4	CCB	1	65695.7	59588	110.25	PASS	30-150
ICSA3	ICSA	1	66254.6	59588	111.19	PASS	30-150
ICSAB3	ICSAB	1	61944.5	59588	103.95	PASS	30-150
CCV5	CCV	1	62471.9	59588	104.84	PASS	30-150
CCB5	CCB	1	62196.6	59588	104.38	PASS	30-150
CCV6	CCV	1	63092.1	59588	105.88	PASS	30-150
CCB6	CCB	1	62518.8	59588	104.92	PASS	30-150
CCV7	CCV	1	62212	59588	104.4	PASS	30-150
CCB7	CCB	1	61888.6	59588	103.86	PASS	30-150
ICSA4	ICSA	1	62675	59588	105.18	PASS	30-150
ICSAB4	ICSAB	1	56706.6	59588	95.16	PASS	30-150
CCV8	CCV	1	63127.9	59588	105.94	PASS	30-150
CCB8	CCB	1	63305.3	59588	106.24	PASS	30-150
CCV9	CCV	1	62189.9	59588	104.37	PASS	30-150
CCB9	CCB	1	62370.5	59588	104.67	PASS	30-150
CCV10	CCV	1	62243.4	59588	104.46	PASS	30-150
CCB10	CCB	1	61839.6	59588	103.78	PASS	30-150
ICSA5	ICSA	1	62257.9	59588	104.48	PASS	30-150
ICSAB5	ICSAB	1	57664.5	59588	96.77	PASS	30-150
CCV11	CCV	1	62308	59588	104.56	PASS	30-150
CCB11	CCB	1	63074.3	59588	105.85	PASS	30-150
ICSA6	ICSA	1	62920.3	59588	105.59	PASS	30-150
ICSAB6	ICSAB	1	56954.2	59588	95.58	PASS	30-150

INTERNAL STANDARD: 240212A

Instrument ID: ICPMS-03

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	75214.1	75214.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	74014.1	75214.1	98.4	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	74856.9	75214.1	99.53	PASS	30-150
Std3-5/50 ppb	ICAL	1	74562.2	75214.1	99.13	PASS	30-150
Std4-10/100 ppb	ICAL	1	72967.3	75214.1	97.01	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	73858	75214.1	98.2	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	73502	75214.1	97.72	PASS	30-150
Std7-100/1000 ppb	ICAL	1	73827.9	75214.1	98.16	PASS	30-150
Std8-200/2000 ppb	ICAL	1	72611.4	75214.1	96.54	PASS	30-150
ICV	ICV	1	73212.9	75214.1	97.34	PASS	30-150
ICB	ICB	1	73726.3	75214.1	98.02	PASS	30-150
LLICV1	LLICV	1	72208.4	75214.1	96	PASS	30-150
MLCCV	CCV	1	74077.7	75214.1	98.49	PASS	30-150
ICSA1	ICSA	1	74248.6	75214.1	98.72	PASS	30-150
ICSAB1	ICSAB	1	69437.7	75214.1	92.32	PASS	30-150
LLICV1	LLICV	1	78666.8	75214.1	104.59	PASS	30-150
N062966-014C	SAMP	1	64036.8	75214.1	85.14	PASS	30-150
N062966-017C	SAMP	1	65610.8	75214.1	87.23	PASS	30-150
N062966-017C	SAMP	1	64439.5	75214.1	85.67	PASS	30-150
CCV1	CCV	1	82813.7	75214.1	110.1	PASS	30-150
CCB1	CCB	1	77433.2	75214.1	102.95	PASS	30-150
CCV2	CCV	1	75878.1	75214.1	100.88	PASS	30-150
CCB2	CCB	1	76204.2	75214.1	101.32	PASS	30-150
ICSA2	ICSA	1	78557.5	75214.1	104.45	PASS	30-150
ICSAB2	ICSAB	1	73780.9	75214.1	98.1	PASS	30-150
CCV3	CCV	1	79844.9	75214.1	106.16	PASS	30-150
CCB3	CCB	1	77527.2	75214.1	103.08	PASS	30-150
CCV4	CCV	1	70013.4	75214.1	93.09	PASS	30-150
CCB4	CCB	1	70283.6	75214.1	93.44	PASS	30-150
CCV5	CCV	1	68526.2	75214.1	91.11	PASS	30-150
CCB5	CCB	1	68852	75214.1	91.54	PASS	30-150
ICSA3	ICSA	1	70341.5	75214.1	93.52	PASS	30-150
ICSAB3	ICSAB	1	64276.8	75214.1	85.46	PASS	30-150
CCV6	CCV	1	67294.2	75214.1	89.47	PASS	30-150
CCB6	CCB	1	65871.9	75214.1	87.58	PASS	30-150
ICSA4	ICSA	1	66924	75214.1	88.98	PASS	30-150
ICSAB4	ICSAB	1	60345.1	75214.1	80.23	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062966
 Test Method: EPA 6020
 Analysis Date: 2/8,9/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 106696

Instrument ID: ICPMS-03
 Instrument Description: Agilent 7800

Comments:


Analyzed By: Diane Jetajobe

Dilution test for Mn failed. However, PS passed criteria.

Dilution test is not applicable to Mo, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062966-001C DT 5x	Arsenic	As	µg/L	3.933521	PASS	4.273595	7.96%	10
N062966-001C DT 5x	Barium	Ba	µg/L	38.3411	PASS	35.86253	6.91%	10
N062966-001C DT 5x	Molybdenum	Mo	µg/L	4.982508	NA	4.983718	0.02%	10
N062966-001C DT 5x	Selenium	Se	µg/L	0	NA	0		10
N062966-001C DT 50x	Manganese	Mn	µg/L	100.1303	FAIL	213.124	53.02%	10
N062966-001C DT 5x	Chromium	Cr	µg/L	0	NA	0.04861408	100.00%	10

Reviewed by:

 3/3/2024

Note: NA - Not Applicable

02/27/24 18:32

DT_EPA 6020_N062966_106696

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N062966
Test Method: EPA 6020
Analysis Date: 2/8/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 106696

Instrument ID: ICPMS-03
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As & Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N062966-017C DT 5x	Arsenic	As	µg/L	0	NA	0		10
N062966-017C DT 5x	Barium	Ba	µg/L	53.68232	PASS	52.85364	1.57%	10
N062966-017C DT 5x	Manganese	Mn	µg/L	71.06712	PASS	68.57906	3.63%	10
N062966-017C DT 5x	Molybdenum	Mo	µg/L	36.89322	PASS	37.6632	2.04%	10
N062966-017C DT 5x	Selenium	Se	µg/L	0.7494882	NA	0.675557	10.94%	10
N062966-017C DT 50x	Chromium	Cr	µg/L	206.6156	PASS	206.745	0.06%	10

Reviewed by:

 3/3/2024

Note: NA - Not Applicable

02/27/24 22:48

DT_EPA 6020_N062966_106696

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N062966
 Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181387						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5683861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1147.022	5.0	1000	213.1	93.4	80	120				

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5685810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.679	0.10	10.00	4.274	104	80	120				
Barium	44.863	1.0	10.00	35.86	90.0	80	120				
Molybdenum	15.664	0.50	10.00	4.984	107	80	120				
Selenium	9.829	0.50	10.00	0	98.3	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5685830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.093	0.10	10.00	0	90.9	80	120				
Barium	61.511	1.0	10.00	52.85	86.6	80	120				
Manganese	162.818	0.50	100.0	68.58	94.2	80	120				
Molybdenum	48.247	0.50	10.00	37.66	106	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 181417						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5691244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.251	0.50	10.00	0.6756	95.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N062966
Project: PG&E Topock - PCM, 30121866

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N062966-001C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181373						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/8/2024	SeqNo: 5682742						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.305	1.0	10.00	0.04861	103	80	120				

Sample ID: N062966-017C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 181393						
Client ID: ZZZZZZ	Batch ID: 106696	TestNo: EPA 6020	EPA 3010A	Analysis Date: 2/9/2024	SeqNo: 5684062						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	313.823	10	100.0	206.7	107	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

605



Method Detection Limit

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/13, 9/14, 9/15/20
Digestion Date: 9/13, 9/14, 9/15/20
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	MDLb	MDL	LOD	PQL
ANTIMONY	0.0376	0.2164	0.2164	0.30	0.50
ARSENIC	0.0496	0.0181	0.0496	0.05	0.10
BARIUM	0.0831	0.0302	0.0831	0.30	1.00
BERYLLIUM	0.0305	0.0083	0.0305	0.10	0.50
CADMIUM	0.0450	0.0019	0.0450	0.10	0.50
CHROMIUM	0.0353	0.0008	0.0353	0.10	1.00
COBALT	0.0169	0.0000	0.0169	0.05	0.50
COPPER	0.0458	0.0082	0.0458	0.10	1.00
IRON	0.2260	0.0939	0.2260	0.75	10.00
LEAD	0.0178	0.0087	0.0178	0.07	1.00
MANGANESE	0.0263	0.0026	0.0263	0.10	0.50
MOLYBDENUM	0.0372	0.1197	0.1197	0.25	0.50
NICKEL	0.0343	0.0041	0.0343	0.10	1.00
SELENIUM	0.0366	0.0438	0.0438	0.10	0.50
SILVER	0.0280	0.0006	0.0280	0.10	0.50
THALLIUM	0.1154	0.0282	0.1154	0.25	0.50
URANIUM	0.0364	0.0005	0.0364	0.10	0.50
VANADIUM	0.0672	0.0000	0.0672	0.25	1.00
ZINC	0.2626	0.0216	0.2626	1.00	10.00
ALUMINUM	0.3533	0.0372	0.3533	1.00	10.00

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LOD & PQL Verification 2020

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 9/17/2020
Digestion Date: 9/18/2020
Instrument Name: ICPMS2
Analysts: MEI

Matrix: Water
Units: ug/L

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.2164	0.30	0.157	0.50	0.586	117
ARSENIC	0.0496	0.05	0.028	0.10	0.111	111
BARIUM	0.0831	0.30	0.282	1.00	1.046	105
BERYLLIUM	0.0305	0.10	0.135	0.50	0.518	104
CADMIUM	0.0450	0.10	0.116	0.50	0.518	104
CHROMIUM	0.0353	0.10	0.276	1.00	1.008	101
COBALT	0.0169	0.05	0.129	0.50	0.515	103
COPPER	0.0458	0.10	0.271	1.00	1.020	102
IRON	0.2260	0.75	3.046	10.00	10.321	103
LEAD	0.0178	0.07	0.279	1.00	1.051	105
MANGANESE	0.0263	0.10	0.153	0.50	0.529	106
MOLYBDENUM	0.1197	0.25	0.123	0.50	0.518	104
NICKEL	0.0343	0.10	0.291	1.00	1.214	121
SELENIUM	0.0438	0.10	0.092	0.50	0.465	93
SILVER	0.0280	0.10	0.136	0.50	0.570	114
THALLIUM	0.1154	0.25	0.115	0.50	0.490	98
URANIUM	0.0364	0.10	0.137	0.50	0.551	110
VANADIUM	0.0672	0.25	0.264	1.00	1.018	102
ZINC	0.2626	1.00	3.066	10.00	10.362	104
ALUMINUM	0.3533	1.00	8.218	10.00	11.093	111

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Method Detection Limit

Analytical Method: EPA 6020 / 200.8
 Digestion Method: EPA 3010A
 Date of Analysis: 9/13/20, 9/14/20, 9/15/20
 Digestion Date: 9/13/20, 9/14/20, 9/15/20
 Instrument Name: ICPMS2
 Analysts: MEI

Matrix: Water
 Amount of Sample: 25 mL
 Units: ug/L

Analyte	AMT SPIKED, ppb	1	2	3	4	5	6	7	SD	MDL	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% REC
ANTIMONY	0.50	0.560	0.559	0.537	0.553	0.577	0.562	0.560	0.0120	0.0376	0.100	0.157	0.50	0.586	117
ARSENIC	0.10	0.105	0.096	0.083	0.121	0.108	0.128	0.120	0.0158	0.0496	0.080	0.028	0.10	0.111	111
BARIIUM	1.00	0.962	0.954	0.983	0.960	1.006	0.934	1.001	0.0265	0.0831	0.250	0.282	1.00	1.046	105
BERYLLIUM	0.50	0.487	0.472	0.468	0.477	0.480	0.488	0.496	0.0097	0.0305	0.100	0.135	0.50	0.518	104
CADMIUM	0.50	0.471	0.488	0.511	0.508	0.484	0.503	0.492	0.0143	0.0450	0.100	0.116	0.50	0.518	104
CHROMIUM	1.00	0.938	0.956	0.929	0.930	0.949	0.928	0.946	0.0112	0.0353	0.250	0.276	1.00	1.008	101
COBALT	0.50	0.476	0.482	0.486	0.480	0.469	0.479	0.477	0.0054	0.0169	0.100	0.129	0.50	0.515	103
COPPER	1.00	0.987	0.949	0.988	0.981	0.969	0.973	0.990	0.0146	0.0458	0.500	0.271	1.00	1.020	102
IRON	10.00	9.395	9.548	9.522	9.390	9.453	9.362	9.397	0.0720	0.2260	2.500	3.046	10.00	10.321	103
LEAD	1.00	0.967	0.972	0.968	0.966	0.964	0.976	0.979	0.0057	0.0178	0.250	0.279	1.00	1.051	105
MANGANESE	0.50	0.556	0.567	0.558	0.542	0.564	0.558	0.549	0.0084	0.0263	0.100	0.153	0.50	0.529	106
MOLYBDENUM	0.50	0.493	0.475	0.470	0.489	0.488	0.503	0.475	0.0118	0.0372	0.250	0.123	0.50	0.518	104
NICKEL	1.00	0.981	1.000	0.993	0.969	0.988	0.983	0.972	0.0109	0.0343	0.250	0.291	1.00	1.214	121
SELENIUM	0.50	0.479	0.475	0.492	0.466	0.478	0.471	0.455	0.0116	0.0366	0.400	0.092	0.50	0.465	93
SILVER	0.50	0.620	0.620	0.613	0.594	0.608	0.608	0.610	0.0089	0.0280	0.250	0.136	0.50	0.570	114
THALLIUM	0.50	0.478	0.405	0.406	0.477	0.407	0.478	0.419	0.0368	0.1154	0.250	0.115	0.50	0.490	98
URANIUM	0.50	0.594	0.591	0.607	0.579	0.574	0.602	0.593	0.0116	0.0364	0.100	0.137	0.50	0.551	110
VANADIUM	1.00	0.938	0.978	0.948	0.945	0.946	0.913	0.919	0.0214	0.0672	0.500	0.264	1.00	1.018	102
ZINC	10.00	9.701	9.527	9.642	9.695	9.497	9.696	9.644	0.0836	0.2626	2.500	3.066	10.00	10.362	104
ALUMINUM	10.00	9.415	9.220	9.282	9.234	9.507	9.303	9.203	0.1125	0.3533	0.100	8.218	10.00	11.093	111

MDL BLANK

Analyte	1	2	3	4	5	6	7	Mean	SD	MDL
ANTIMONY	0.133669	0.051403	0.03612	0.12283	0.04951	0.12493	0.05574	0.0820	0.0428	0.2164
ARSENIC	<0.000	<0.000	0.01035	0.00034	0.00312	<0.000	0.00102	0.0037	0.0046	0.0181
BARIIUM	<0.000	<0.000	0.00085	0.01018	0.00756	0.01192	0.01865	0.0098	0.0065	0.0302
BERYLLIUM	0.002366	0.000513	<0.000	0.00421	0.0046	0.00405	0.00102	0.0028	0.0018	0.0083
CADMIUM	0.000699	0.000365	0.00076	<0.000	<0.000	0.00107	6.7E-06	0.0006	0.0004	0.0019
CHROMIUM	0	0	0.00059	0	0	0	0	0.0001	0.0002	0.0008
COBALT	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
COPPER	0.002351	0.004587	0.00295	<0.000	0.00025	<0.000	<0.000	0.0025	0.0018	0.0082
IRON	0.051023	0.040696	0.03201	0.04658	0.02249	0.07272	0.03432	0.0428	0.0162	0.0939
LEAD	0.004641	0.001836	0.0013	0.00571	0.00403	0.00444	0.002	0.0034	0.0017	0.0087
MANGANESE	<0.000	0.001528	0.00193	<0.000	<0.000	<0.000	0.00197	0.0018	0.0002	0.0026
MOLYBDENUM	0.065007	0.029611	0.01408	0.0689	0.02847	0.07342	0.03014	0.0442	0.0240	0.1197
NICKEL	<0.000	0.00196	0.00283	0.00108	0.00111	<0.000	0.00104	0.0016	0.0008	0.0041
SELENIUM	0.027254	0.013201	0.00812	0.02313	0.02686	0.01549	<0.000	0.0190	0.0079	0.0438
SILVER	0.000595	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	0.0006	0.0000	0.0006
THALLIUM	0.020258	0.010021	0.00738	0.01683	0.01051	0.01646	0.00889	0.0129	0.0049	0.0282
URANIUM	0.000287	3.89E-05	0.00011	0.00012	0.00012	0.00031	<0.000	0.0002	0.0001	0.0005
VANADIUM	0	0	0	0	0	0	0	0.0000	0.0000	0.0000
ZINC	0.009084	<0.000	<0.000	<0.000	<0.000	0.011	0.00244	0.0075	0.0045	0.0216
ALUMINUM	0.034605	<0.000	<0.000	<0.000	<0.000	0.03586	0.03492	0.0351	0.0006	0.0372

CALIFORNIA

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Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 502011
Report Level: II
Report Date: 02/23/2024

Analytical Report *prepared for:*

Yoandra Rodriguez
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N062967A

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Yoandra Rodriguez
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 502011
 Location: N062967A
 Date Received: 02/09/24

Sample ID	Lab ID	Collected	Matrix
N062967-001A/MW-34-055-Q124	502011-001	02/07/24 10:22	Water
N062967-002A/MW-34-080-Q124	502011-002	02/07/24 09:49	Water
N062967-003A/MW-34-100-Q124	502011-003	02/07/24 09:18	Water
N062967-004A/MW-44-070-Q124	502011-004	02/07/24 13:03	Water
N062967-005A/MW-44-115-Q124	502011-005	02/07/24 11:59	Water
N062967-006A/MW-44-125-Q124	502011-006	02/07/24 12:36	Water
N062967-007A/MW-45-095A-Q124	502011-007	02/07/24 11:20	Water
N062967-008A/MW-78-070-Q124	502011-008	02/07/24 09:00	Water
N062967-009A/MW-917-Q124	502011-009	02/07/24 09:02	Water
N062967-010A/MW-78-142-Q124	502011-010	02/07/24 09:52	Water
N062967-011A/MW-79-058-Q124	502011-011	02/07/24 10:49	Water
N062967-012A/MW-918-Q124	502011-012	02/07/24 10:51	Water
N062967-013A/MW-79-102-Q124	502011-013	02/07/24 11:26	Water
N062967-014A/MW-80-057-Q124	502011-014	02/07/24 12:25	Water
N062967-015A/MW-80-082-Q124	502011-015	02/07/24 12:56	Water
N062967-016A/MW-919-Q124	502011-016	02/07/24 12:59	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Yoandra Rodriguez

Lab Job 502011
Number:
Location: N062967A
Date Received: 02/09/24

This data package contains sample and QC results for sixteen water samples, requested for the above referenced project on 02/09/24. The samples were received cold and intact.

Total Organic Carbon by IR (SM 5310B):

- Level II was also requested.
- No analytical problems were encountered.

5 02011

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor:

Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

Field Sampler: Riggie Tep

08-Feb-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N062967-001A / MW-34-055-Q124	Groundwater	2/7/2024 10:22:00 AM	80ZA	1	(MS/MSD)
N062967-002A / MW-34-080-Q124	Groundwater	2/7/2024 9:49:00 AM	80ZA	1	
N062967-003A / MW-34-100-Q124	Groundwater	2/7/2024 9:18:00 AM	80ZA	1	
N062967-004A / MW-44-070-Q124	Groundwater	2/7/2024 1:03:00 PM	80ZA	1	
N062967-005A / MW-44-115-Q124	Groundwater	2/7/2024 11:59:00 AM	80ZA	1	
N062967-006A / MW-44-125-Q124	Groundwater	2/7/2024 12:36:00 PM	80ZA	1	
N062967-007A / MW-45-095a-Q124	Groundwater	2/7/2024 11:20:00 AM	80ZA	1	
N062967-008A / MW-78-070-Q124	Groundwater	2/7/2024 9:00:00 AM	80ZA	1	
N062967-009A / MW-917-Q124	Groundwater	2/7/2024 9:02:00 AM	80ZA	1	
N062967-010A / MW-78-142-Q124	Groundwater	2/7/2024 9:52:00 AM	80ZA	1	
N062967-011A / MW-79-058-Q124	Groundwater	2/7/2024 10:49:00 AM	80ZA	1	
N062967-012A / MW-918-Q124	Groundwater	2/7/2024 10:51:00 AM	80ZA	1	
N062967-013A / MW-79-102-Q124	Groundwater	2/7/2024 11:26:00 AM	80ZA	1	(MS/MSD)
N062967-014A / MW-80-057-Q124	Groundwater	2/7/2024 12:25:00 PM	80ZA	1	
N062967-015A / MW-80-082-Q124	Groundwater	2/7/2024 12:56:00 PM	80ZA	1	
N062967-016A / MW-919-Q124	Groundwater	2/7/2024 12:59:00 PM	80ZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#:N62967A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call
 Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT.
 Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS #: 56092.1169

Relinquished by: <u>V Rodriguez</u>	Date/Time: <u>2/8/2024 1630</u>
Relinquished by: _____	Date/Time: _____
Received by: _____	Date/Time: <u>2/07/24 10:02 AM</u>
Received by: _____	Date/Time: _____



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

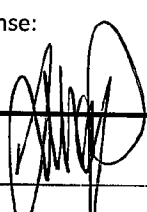
Section 1
 Client: ASSET LABS Project: _____
 Date Received: 2/09/24 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____
 Sample Temp (°C), One from each cooler: #1: 5.1 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 2.7 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	/		
Are sample IDs present?	/		
Are sampling dates & times present?	/		
Is a relinquished signature present?	/		
Are the tests required clearly indicated on the COC?	/		
Are custody seals present?		/	
If custody seals are present, were they intact?			/
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	/		
Did all samples arrive intact? If no, indicate in Section 4 below.	/		
Did all bottle labels agree with COC? (ID, dates and times)	/		
Were the samples collected in the correct containers for the required tests?	/		
Are the containers labeled with the correct preservatives?	/		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			/
Was a sufficient amount of sample submitted for the requested tests?	/		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:


Completed By: _____ Date: 2/09/24

GLS.

800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 560921169

PDS

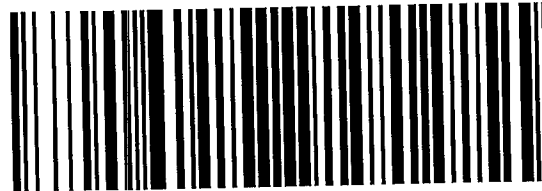


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
806 N. BATAVIA
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



Delivery Instructions:

3478515

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 2/8/2024 1:41 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 502011

 Yoandra Rodriguez
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

 Lab Job #: 502011
 Location: N062967A
 Date Received: 02/09/24

Sample ID: N062967-001A/MW-34-055-Q124	Lab ID: 502011-001 Matrix: Water	Collected: 02/07/24 10:22
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502011-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	3.4		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-002A/MW-34-080-Q124	Lab ID: 502011-002 Matrix: Water	Collected: 02/07/24 09:49
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502011-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062967-003A/MW-34-100-Q124	Lab ID: 502011-003 Matrix: Water	Collected: 02/07/24 09:18
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502011-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.4		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062967-004A/MW-44-070-Q124	Lab ID: 502011-004 Matrix: Water	Collected: 02/07/24 13:03
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502011-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.3		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062967-005A/MW-44-115-Q124	Lab ID: 502011-005 Matrix: Water	Collected: 02/07/24 11:59
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502011-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.9		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Sample ID: N062967-006A/MW-44-125-Q124	Lab ID: 502011-006 Matrix: Water	Collected: 02/07/24 12:36
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502011-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	332911	02/13/24	02/13/24	EPL

Analysis Results for 502011

Sample ID: N062967-007A/MW-45-095A-Q124	Lab ID: 502011-007 Matrix: Water	Collected: 02/07/24 11:20
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502011-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.9		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-008A/MW-78-070-Q124	Lab ID: 502011-008 Matrix: Water	Collected: 02/07/24 09:00
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502011-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-009A/MW-917-Q124	Lab ID: 502011-009 Matrix: Water	Collected: 02/07/24 09:02
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502011-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.4		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-010A/MW-78-142-Q124	Lab ID: 502011-010 Matrix: Water	Collected: 02/07/24 09:52
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502011-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.3		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-011A/MW-79-058-Q124	Lab ID: 502011-011 Matrix: Water	Collected: 02/07/24 10:49
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502011-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-012A/MW-918-Q124	Lab ID: 502011-012 Matrix: Water	Collected: 02/07/24 10:51
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502011-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.5		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-013A/MW-79-102-Q124	Lab ID: 502011-013 Matrix: Water	Collected: 02/07/24 11:26
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502011-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.9		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Analysis Results for 502011

Sample ID: N062967-014A/MW-80-057-Q124	Lab ID: 502011-014 Matrix: Water	Collected: 02/07/24 12:25
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502011-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	1.8		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-015A/MW-80-082-Q124	Lab ID: 502011-015 Matrix: Water	Collected: 02/07/24 12:56
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502011-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.0		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Sample ID: N062967-016A/MW-919-Q124	Lab ID: 502011-016 Matrix: Water	Collected: 02/07/24 12:59
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502011-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Total Organic Carbon	2.3		mg/L	1.0	1	332935	02/14/24	02/14/24	EPL

Batch QC

Type: Blank	Lab ID: QC1127854	Batch: 332911
Matrix: Water	Method: SM 5310B	

QC1127854 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	02/13/24	02/13/24

Type: Lab Control Sample	Lab ID: QC1127855	Batch: 332911
Matrix: Water	Method: SM 5310B	

QC1127855 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.79	25.00	mg/L	99%		80-120

Type: Matrix Spike	Lab ID: QC1127856	Batch: 332911
Matrix (Source ID): Water (501797-003)	Method: SM 5310B	

QC1127856 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.13	3.421	25.00	mg/L	99%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1127857	Batch: 332911
Matrix (Source ID): Water (501797-003)	Method: SM 5310B	

QC1127857 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.85	3.421	25.00	mg/L	102%		80-120	3	20	1

Type: Blank	Lab ID: QC1127900	Batch: 332935
Matrix: Water	Method: SM 5310B	

QC1127900 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	02/14/24	02/14/24

Type: Lab Control Sample	Lab ID: QC1127901	Batch: 332935
Matrix: Water	Method: SM 5310B	

QC1127901 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.70	25.00	mg/L	99%		80-120

Type: Matrix Spike	Lab ID: QC1127902	Batch: 332935
Matrix (Source ID): Water (502011-001)	Method: SM 5310B	

QC1127902 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	29.75	3.405	25.00	mg/L	105%		80-120	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1127903	Batch: 332935
Matrix (Source ID): Water (502011-001)	Method: SM 5310B	

QC1127903 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	29.11	3.405	25.00	mg/L	103%		80-120	2	20	1

Type: Matrix Spike	Lab ID: QC1127904	Batch: 332935
Matrix (Source ID): Water (502011-013)	Method: SM 5310B	

QC1127904 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	29.81	1.866	25.00	mg/L	112%		80-120			1

Type: Matrix Spike Duplicate	Lab ID: QC1127905	Batch: 332935
Matrix (Source ID): Water (502011-013)	Method: SM 5310B	

QC1127905 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	29.04	1.866	25.00	mg/L	109%		80-120	3	20	1

ND Not Detected